



March 05, 2010

Ms. Elizabeth Wessling
MECx, LLC
3061 West 92nd Ave #10-D
Westminster, Colorado 80031

Re: SSFL
Project Number: 1891614.050104
Project Name: ISRA Sampling, Feb 2009
Work Order: 227874
SDG: 227874H

Dear Ms. Elizabeth Wessling,

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on April 10, 2009, February 25, 2009 and February 26, 2009. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4426.

Sincerely,

Jacqueline Trudell
Project Manager

Purchase Order: 1891614.050104
Chain of Custody: MWHAL20090224_00, MWHAL20090225_00 and MWHBM20090409_00
Enclosures

Metals Analysis

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 227874H

CONTRACT: SSFL00142

METHOD TYPE: SW846

SAMPLE ID: 227874001 **BASIS:** Dry Weight **DATE COLLECTED** 09-APR-09

CLIENT ID: CNBS0131S001 **LEVEL:** Low **DATE RECEIVED** 10-APR-09

MATRIX: SOIL **%SOLIDS:** 95.2

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-50-8	Copper	9.29	mg/kg		0.0413	0.206	0.2	2	MS	RMJ	04/22/09 06:22	090421-3	860545
7439-92-1	Lead	35.1	mg/kg		0.101	0.402	0.4	2	MS	BAJ	04/21/09 12:00	090421-2	858634

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
858634	858633	SW846 3050B	0.522	g	50	mL	04/20/09	AXG2
860545	860544	SW846 3050B	0.509	g	50	mL	04/21/09	BXA1

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 227874H

CONTRACT: SSFL00142

METHOD TYPE: SW846

SAMPLE ID: 227874002

BASIS: As Received

DATE COLLECTED 09-APR-09

CLIENT ID: EBQW2207

LEVEL: Low

DATE RECEIVED 10-APR-09

MATRIX: WATER

%SOLIDS: 0

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-50-8	Copper	0.730	ug/L	J	0.3	1	1	1	MS	BAJ	04/20/09 12:51	090420-1	858641
7439-92-1	Lead	0.50	ug/L	U	0.5	2	2	1	MS	BAJ	04/20/09 12:51	090420-1	858641

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
858641	858640	SW846 3005A	50	mL	50	mL	04/17/09	AXG2

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 227874H

CONTRACT: SSFL00142

METHOD TYPE: SW846

SAMPLE ID: 227874008 **BASIS:** Dry Weight **DATE COLLECTED** 24-FEB-09

CLIENT ID: HZBS0062S001 **LEVEL:** Low **DATE RECEIVED** 25-FEB-09

MATRIX: SOIL **%SOLIDS:** 91.5

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-50-8	Copper	12.3	mg/kg		0.0433	0.216	0.2	2	MS	RMJ	04/22/09 06:25	090421-3	860545

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
858634	858633	SW846 3050B	0.515	g	50	mL	04/20/09	AXG2
860545	860544	SW846 3050B	0.505	g	50	mL	04/21/09	BXA1

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 227874H

CONTRACT: SSFL00142

METHOD TYPE: SW846

SAMPLE ID: 227874009 **BASIS:** Dry Weight **DATE COLLECTED** 25-FEB-09

CLIENT ID: HZBS0069S001 **LEVEL:** Low **DATE RECEIVED** 26-FEB-09

MATRIX: SOIL **%SOLIDS:** 93.7

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-50-8	Copper	6.32	mg/kg		0.0407	0.203	0.2	2	MS	RMJ	04/22/09 06:27	090421-3	860545

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
858634	858633	SW846 3050B	0.5	g	50	mL	04/20/09	AXG2
860545	860544	SW846 3050B	0.525	g	50	mL	04/21/09	BXA1

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 227874H

CONTRACT: SSFL00142

METHOD TYPE: SW846

SAMPLE ID: 227874010

BASIS: Dry Weight

DATE COLLECTED 25-FEB-09

CLIENT ID: HZBS0080S001

LEVEL: Low

DATE RECEIVED 26-FEB-09

MATRIX: SOIL

%SOLIDS: 87

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-50-8	Copper	0.404	mg/kg		0.0451	0.226	0.2	2	MS	RMJ	04/22/09 06:46	090421-3	860545

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
858634	858633	SW846 3050B	0.518	g	50	mL	04/20/09	AXG2
860545	860544	SW846 3050B	0.507	g	50	mL	04/21/09	BXA1

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 227874H

CONTRACT: SSFL00142

METHOD TYPE: SW846

SAMPLE ID: 227874011 **BASIS:** Dry Weight **DATE COLLECTED** 25-FEB-09

CLIENT ID: HZBS0082S001 **LEVEL:** Low **DATE RECEIVED** 26-FEB-09

MATRIX: SOIL **%SOLIDS:** 87

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-50-8	Copper	0.328	mg/kg		0.0449	0.224	0.2	2	MS	RMJ	04/22/09 06:48	090421-3	860545

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
858634	858633	SW846 3050B	0.525	g	50	mL	04/20/09	AXG2
860545	860544	SW846 3050B	0.511	g	50	mL	04/21/09	BXA1

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 227874H

CONTRACT: SSFL00142

METHOD TYPE: SW846

SAMPLE ID: 227874012 **BASIS:** Dry Weight **DATE COLLECTED** 25-FEB-09

CLIENT ID: HZBS0084S001 **LEVEL:** Low **DATE RECEIVED** 26-FEB-09

MATRIX: SOIL **%SOLIDS:** 85

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-50-8	Copper	1.32	mg/kg		0.0453	0.226	0.2	2	MS	RMJ	04/22/09 06:51	090421-3	860545

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
858634	858633	SW846 3050B	0.501	g	50	mL	04/20/09	AXG2
860545	860544	SW846 3050B	0.517	g	50	mL	04/21/09	BXA1

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 227874H

CONTRACT: SSFL00142

METHOD TYPE: SW846

SAMPLE ID: 227874012 **BASIS:** Dry Weight **DATE COLLECTED** 25-FEB-09

CLIENT ID: HZBS0084S001 **LEVEL:** Low **DATE RECEIVED** 26-FEB-09

MATRIX: SOIL **%SOLIDS:** 85

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-50-8	Copper	1.32	mg/kg		0.0453	0.226	0.2	2	MS	RMJ	04/22/09 06:51	090421-3	860545

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
858634	858633	SW846 3050B	0.501	g	50	mL	04/20/09	AXG2
860545	860544	SW846 3050B	0.517	g	50	mL	04/21/09	BXA1

Subcontract Data

Dioxins

Method 1613
CNBS0131S001
 General Engineering Labs

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	Adj. RL (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8-TCDD	ND	0.338	0.891			
1,2,3,7,8-PeCDD	ND	0.418	4.46			
1,2,3,4,7,8-HxCDD	ND	0.422	4.46			
1,2,3,6,7,8-HxCDD	1.43	0.443	4.46	36:38	1.35	A
1,2,3,7,8,9-HxCDD	1.51	0.436	4.46	36:53	1.08	A
1,2,3,4,6,7,8-HpCDD	10.3	0.702	4.46	39:54	1.02	
OCDD	109	1.62	8.91	44:08	0.88	
2,3,7,8-TCDF	0.980	0.585	0.891	30:17	0.79	
1,2,3,7,8-PeCDF	0.447	0.315	4.46	33:12	1.56	A
2,3,4,7,8-PeCDF	0.889	0.295	4.46	33:49	1.53	A
1,2,3,4,7,8-HxCDF	0.697	0.425	4.46	35:51	1.25	A
1,2,3,6,7,8-HxCDF	0.779	0.374	4.46	35:57	1.36	A
2,3,4,6,7,8-HxCDF	0.499	0.396	4.46	36:26	1.19	A
1,2,3,7,8,9-HxCDF	ND	0.503	4.46			
1,2,3,4,6,7,8-HpCDF	2.99	0.345	4.46	38:40	1.00	A
1,2,3,4,7,8,9-HpCDF	ND	0.465	4.46			
OCDF	6.27	0.790	8.91	44:25	0.91	A
Total TCDDs	0.435	0.338	0.891			A
Total PeCDDs	ND	0.418	4.46			
Total HxCDDs	5.84	0.434	4.46			
Total HpCDDs	38.3	0.702	4.46			
Total TCDFs	3.43	0.585	0.891			
Total PeCDFs	11.9	0.305	4.46			
Total HxCDFs	7.01	0.421	4.46			
Total HpCDFs	5.91	0.400	4.46			
WHO-2005 TEQ (ND=0)	1.04					
WHO-2005 TEQ (ND=½)	1.89					

<u>Client Information</u>		<u>Sample Information</u>	
Project Name:	SSFL 227874 H	Report Basis:	Dry Weight
Sample ID:	CNBS0131S001	Matrix:	Soil
		Weight / Volume:	11.77 Grams
		Solids / Lipids:	95.3 %
		Original pH :	NA
		Batch ID:	WG17079
<u>Laboratory Information</u>			
Project ID:	G341-577	Filename:	a20apr09a-9
Sample ID:	G341-577-1B	Retchk:	a20apr09a-1
Collection Date/Time:	09-Apr-09 14:35	Begin ConCal:	a20apr09a-1
Receipt Date:	14-Apr-09 10:00		
Extraction Date:	15-Apr-09		
Analysis Date:	20-Apr-09 21:18	Initial Cal:	m1613-100708a

Method 1613
CNBS0131S001
 General Engineering Labs

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
¹³ C ₁₂ -2,3,7,8-TCDD	2	1.56	78.0	31:04	0.78	
¹³ C ₁₂ -1,2,3,7,8-PeCDD	2	1.61	80.3	33:59	1.57	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDD	2	1.56	78.0	36:32	1.27	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDD	2	1.56	78.2	36:37	1.26	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDD	2	1.65	82.4	39:53	1.05	
¹³ C ₁₂ -OCDD	4.00	3.37	84.2	44:07	0.89	
¹³ C ₁₂ -2,3,7,8-TCDF	2	1.56	78.0	30:16	0.79	
¹³ C ₁₂ -1,2,3,7,8-PeCDF	2	1.59	79.6	33:11	1.58	
¹³ C ₁₂ -2,3,4,7,8-PeCDF	2	1.56	78.2	33:48	1.58	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDF	2	1.46	73.1	35:51	0.52	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDF	2	1.48	74.0	35:56	0.53	
¹³ C ₁₂ -2,3,4,6,7,8-HxCDF	2	1.51	75.6	36:25	0.53	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDF	2	1.50	74.9	37:11	0.52	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDF	2	1.48	74.1	38:40	0.45	
¹³ C ₁₂ -1,2,3,4,7,8,9-HpCDF	2	1.64	82.0	40:33	0.46	
Cleanup Standards						
³⁷ Cl ₄ -2,3,7,8-TCDD	0.400	0.320	80.0	31:05	-	
Injection Standards						
¹³ C ₁₂ -1,2,3,4-TCDD	2.00			30:27	0.79	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDD	2.00			36:52	1.25	

Client Information		Sample Information	
Project Name:	SSFL 227874 H	Report Basis:	Dry Weight
Sample ID:	CNBS0131S001	Matrix:	Soil
		Weight / Volume:	11.77 Grams
		Solids / Lipids:	95.3 %
		Original pH :	NA
		Batch ID:	WG17079
Laboratory Information			
Project ID:	G341-577	Filename:	a20apr09a-9
Sample ID:	G341-577-1B	Retchk:	a20apr09a-1
Collection Date/Time:	09-Apr-09 14:35	Begin ConCal:	a20apr09a-1
Receipt Date:	14-Apr-09 10:00		
Extraction Date:	15-Apr-09		
Analysis Date:	20-Apr-09 21:18	Initial Cal:	m1613-100708a
Analyzed by:	<u>DS</u>	Reviewed by:	<u>JM</u>
Date:	<u>4-23-09</u>	Date:	<u>4-23-09</u>

Form Version: [1613_ed1]Report

TCDF Confirmation - Method 1613
CNBS0131S001
 General Engineering Labs

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	Adj. EDL (pg/g)	Adj. RL (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8-TCDF	0.934	0.435	0.892	21.00	0.76	

Labeled Standard	Spiked Amount (ng)	RT (min.)	Ratio	Qualifier
Extraction Standards 13C12-2,3,7,8-TCDF	2	21.00	0.75	

Client Information		Sample Information	
Project Name:	SSFL 227874 H	Report Basis:	Dry
Sample ID:	CNBS0131S001	Matrix:	Soil
		Weight / Volume:	11.77 g
		Solids / Lipids:	95.3 %
		Original pH :	NA
		Batch ID:	WG17079
Laboratory Information		Instrument:	
Project ID:	G341-577	Filename:	c21apr09a-12
Sample ID:	G341-577-1B	Retchk:	c21apr09a-2
Collection Date/Time:	04/09/09 14:35	Begin ConCal:	c21apr09a-1
Receipt Date:	04/14/09 10:00	Initial Cal:	mcf-c042108a
Extraction Date:	04/15/09		
Analysis Date/Time:	04/21/09 16:34		

Analyzed by: DS
 Date: 4-23-09

Reviewed by: ym
 Date: 4-23-09

Method 1613 EBQW2207 General Engineering Labs
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Analytical Data Summary Sheet

Analyte	Amount (ng/L)	EDL (ng/L)	Adj. RL (ng/L)	RT (min.)	Ratio	Qualifier
2,3,7,8-TCDD	ND	0.00365	0.00943			
1,2,3,7,8-PeCDD	ND	0.00542	0.0472			
1,2,3,4,7,8-HxCDD	ND	0.00906	0.0472			
1,2,3,6,7,8-HxCDD	ND	0.00959	0.0472			
1,2,3,7,8,9-HxCDD	ND	0.00940	0.0472			
1,2,3,4,6,7,8-HpCDD	ND	0.0161	0.0472			
OCDD	ND	0.0340	0.0943			
2,3,7,8-TCDF	ND	0.00469	0.00943			
1,2,3,7,8-PeCDF	ND	0.00230	0.0472			
2,3,4,7,8-PeCDF	ND	0.00215	0.0472			
1,2,3,4,7,8-HxCDF	ND	0.00348	0.0472			
1,2,3,6,7,8-HxCDF	ND	0.00337	0.0472			
2,3,4,6,7,8-HxCDF	ND	0.00341	0.0472			
1,2,3,7,8,9-HxCDF	ND	0.00424	0.0472			
1,2,3,4,6,7,8-HpCDF	ND	0.00388	0.0472			
1,2,3,4,7,8,9-HpCDF	ND	0.00581	0.0472			
OCDF	ND	0.00860	0.0943			
Total TCDDs	ND	0.00365	0.00943			
Total PeCDDs	ND	0.00542	0.0472			
Total HxCDDs	ND	0.00936	0.0472			
Total HpCDDs	ND	0.0161	0.0472			
Total TCDFs	ND	0.00469	0.00943			
Total PeCDFs	ND	0.00240	0.0472			
Total HxCDFs	ND	0.00360	0.0472			
Total HpCDFs	ND	0.00475	0.0472			
WHO-2005 TEQ (ND=0)	0.000					
WHO-2005 TEQ (ND=1/2)	0.0148					

<u>Client Information</u>		<u>Sample Information</u>	
Project Name:	SSFL 227874 H	Matrix:	Water
Sample ID:	EBQW2207	Weight / Volume:	1060 · mL
		Solids / Lipids:	NA %
		Original pH :	8
		Batch ID:	WG17086
<u>Laboratory Information</u>			
Project ID:	G341-577	Filename:	a20apr09a_7-5
Sample ID:	G341-577-2C	Retchk:	a20apr09a_6-14
Collection Date/Time:	09-Apr-09 09:40	Begin ConCal:	a20apr09a_6-14
Receipt Date:	14-Apr-09 10:00		
Extraction Date:	21-Apr-09		
Analysis Date:	23-Apr-09 15:57	Initial Cal:	m1613-100708a

Method 1613
EBQW2207
 General Engineering Labs

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
¹³ C ₁₂ -2,3,7,8-TCDD	2	1.83	91.3	31:03	0.78	
¹³ C ₁₂ -1,2,3,7,8-PeCDD	2	1.90	95.0	33:58	1.57	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDD	2	1.78	89.2	36:32	1.25	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDD	2	1.83	91.6	36:37	1.25	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDD	2	1.86	93.1	39:53	1.05	
¹³ C ₁₂ -OCDD	4.00	3.87	96.9	44:07	0.89	
¹³ C ₁₂ -2,3,7,8-TCDF	2	1.78	88.8	30:16	0.78	
¹³ C ₁₂ -1,2,3,7,8-PeCDF	2	1.87	93.7	33:11	1.59	
¹³ C ₁₂ -2,3,4,7,8-PeCDF	2	1.89	94.6	33:47	1.58	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDF	2	1.74	87.0	35:51	0.54	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDF	2	1.74	87.1	35:56	0.51	
¹³ C ₁₂ -2,3,4,6,7,8-HxCDF	2	1.77	88.7	36:25	0.53	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDF	2	1.77	88.6	37:10	0.52	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDF	2	1.77	88.7	38:40	0.46	
¹³ C ₁₂ -1,2,3,4,7,8,9-HpCDF	2	1.88	93.9	40:33	0.45	
Cleanup Standards						
³⁷ Cl ₄ -2,3,7,8-TCDD	0.400	0.394	98.5	31:04	-	
Injection Standards						
¹³ C ₁₂ -1,2,3,4-TCDD	2.00			30:27	0.79	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDD	2.00			36:52	1.24	

Client Information		Sample Information	
Project Name:	SSFL 227874 H	Matrix:	Water
Sample ID:	EBQW2207	Weight / Volume:	1060 mL
		Solids / Lipids:	NA %
		Original pH :	8
		Batch ID:	WG17086
Laboratory Information		Filename:	a20apr09a_7-5
Project ID:	G341-577	Retchk:	a20apr09a_6-14
Sample ID:	G341-577-2C	Begin ConCal:	a20apr09a_6-14
Collection Date/Time:	09-Apr-09 09:40	Initial Cal:	m1613-100708a
Receipt Date:	14-Apr-09 10:00		
Extraction Date:	21-Apr-09		
Analysis Date:	23-Apr-09 15:57		
Analyzed by: <u>JWP</u>		Reviewed by: <u>TM</u>	
Date: <u>4-24-09</u>		Date: <u>4-24-09</u>	

Method 1613
HZBS0105S001
 General Engineering Labs

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	Adj. RL (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8-TCDD	ND	0.227	0.844			
1,2,3,7,8-PeCDD	0.633	0.282	4.22	33:59	1.34	A
1,2,3,4,7,8-HxCDD	0.923	0.402	4.22	36:35	1.27	A
1,2,3,6,7,8-HxCDD	ND	2.41	4.22			EMPC
1,2,3,7,8,9-HxCDD	1.75	0.401	4.22	36:54	1.20	A
1,2,3,4,6,7,8-HpCDD	31.7	0.664	4.22	40:00	1.05	
OCDD	283	1.35	8.44	44:22	0.89	
2,3,7,8-TCDF	1.34	0.314	0.844	30:18	0.74	
1,2,3,7,8-PeCDF	2.10	0.348	4.22	33:12	1.46	A
2,3,4,7,8-PeCDF	3.91	0.323	4.22	33:49	1.56	A
1,2,3,4,7,8-HxCDF	7.32	0.449	4.22	35:53	1.25	
1,2,3,6,7,8-HxCDF	5.40	0.410	4.22	35:59	1.24	
2,3,4,6,7,8-HxCDF	7.07	0.449	4.22	36:28	1.25	
1,2,3,7,8,9-HxCDF	1.59	0.565	4.22	37:14	1.31	A
1,2,3,4,6,7,8-HpCDF	46.8	0.405	4.22	38:46	1.04	
1,2,3,4,7,8,9-HpCDF	3.49	0.545	4.22	40:40	1	A
OCDF	51.0	0.721	8.44	44:38	0.89	
Total TCDDs	0.668	0.227	0.844			A
Total PeCDDs	7.30	0.282	4.22			
Total HxCDDs	18.5	0.400	4.22			
Total HpCDDs	115	0.664	4.22			
Total TCDFs	19.9	0.314	0.844			
Total PeCDFs	38.1	0.335	4.22			
Total HxCDFs	56.9	0.465	4.22			
Total HpCDFs	67.4	0.468	4.22			
WHO-2005 TEQ (ND=0)	5.33					
WHO-2005 TEQ (ND=1/2)	5.80					

<u>Client Information</u>		<u>Sample Information</u>	
Project Name:	SSFL 227874 H	Report Basis:	Dry Weight
		Matrix:	Soil
Sample ID:	HZBS0105S001	Weight / Volume:	12.21 Grams
		Solids / Lipids:	97.1 %
		Original pH :	NA
		Batch ID:	WG17079
<u>Laboratory Information</u>			
Project ID:	G341-577		
Sample ID:	G341-577-3B	Filename:	a20apr09a-10
Collection Date/Time:	09-Apr-09 08:40	Retchk:	a20apr09a-1
Receipt Date:	14-Apr-09 10:00	Begin ConCal:	a20apr09a-1
Extraction Date:	15-Apr-09		
Analysis Date:	20-Apr-09 22:06	Initial Cal:	m1613-100708a

Method 1613
HZBS0105S001
 General Engineering Labs

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
¹³ C ₁₂ -2,3,7,8-TCDD	2	1.90	95.1	31:04	0.78	
¹³ C ₁₂ -1,2,3,7,8-PeCDD	2	1.91	95.4	33:59	1.57	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDD	2	1.86	93.0	36:34	1.26	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDD	2	1.74	87.2	36:39	1.26	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDD	2	1.86	92.8	39:59	1.05	
¹³ C ₁₂ -OCDD	4.00	3.70	92.5	44:21	0.90	
¹³ C ₁₂ -2,3,7,8-TCDF	2	1.86	92.8	30:17	0.79	
¹³ C ₁₂ -1,2,3,7,8-PeCDF	2	1.91	95.4	33:12	1.58	
¹³ C ₁₂ -2,3,4,7,8-PeCDF	2	1.88	93.9	33:48	1.59	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDF	2	1.81	90.6	35:52	0.53	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDF	2	1.67	83.4	35:58	0.53	
¹³ C ₁₂ -2,3,4,6,7,8-HxCDF	2	1.77	88.5	36:27	0.53	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDF	2	1.77	88.4	37:12	0.53	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDF	2	1.74	86.8	38:45	0.45	
¹³ C ₁₂ -1,2,3,4,7,8,9-HpCDF	2	1.83	91.6	40:38	0.46	
Cleanup Standards						
³⁷ Cl ₄ -2,3,7,8-TCDD	0.400	0.388	97.0	31:05	-	
Injection Standards						
¹³ C ₁₂ -1,2,3,4-TCDD	2.00			30:28	0.79	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDD	2.00			36:54	1.25	

Client Information		Sample Information	
Project Name:	SSFL 227874 H	Report Basis:	Dry Weight
Sample ID:	HZBS0105S001	Matrix:	Soil
		Weight / Volume:	12.21 Grams
		Solids / Lipids:	97.1 %
		Original pH :	NA
		Batch ID:	WG17079
Laboratory Information		Filename:	a20apr09a-10
Project ID:	G341-577	Retchk:	a20apr09a-1
Sample ID:	G341-577-3B	Begin ConCal:	a20apr09a-1
Collection Date/Time:	09-Apr-09 08:40	Initial Cal:	m1613-100708a
Receipt Date:	14-Apr-09 10:00		
Extraction Date:	15-Apr-09		
Analysis Date:	20-Apr-09 22:06		
Analyzed by:	<u>DS</u>	Reviewed by:	<u>TM</u>
Date:	<u>4-22-09</u>	Date:	<u>4-22-09</u>

Form Version: [1613_ed]Report

TCDF Confirmation - Method 1613

HZBS0105S001

General Engineering Labs

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	Adj. EDL (pg/g)	Adj. RL (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8-TCDF	1.28	0.516	0.843	21.03	0.86	

Labeled Standard	Spiked Amount (ng)	RT (min.)	Ratio	Qualifier
Extraction Standards 13C12-2,3,7,8-TCDF	2	20.99	0.68	

Client Information		Sample Information	
Project Name:	SSFL 227874 H	Report Basis:	Dry
Sample ID:	HZBS0105S001	Matrix:	Soil
		Weight / Volume:	12.21 g
		Solids / Lipids:	97.1 %
		Original pH :	NA
		Batch ID:	WG17079
Laboratory Information		Instrument:	
Project ID:	G341-577	Filename:	c21apr09a-13
Sample ID:	G341-577-3B	Retchk:	c21apr09a-2
Collection Date/Time:	04/09/09 8:40	Begin ConCal:	c21apr09a-1
Receipt Date:	04/14/09 10:00	Initial Cal:	mcf-c042108a
Extraction Date:	04/15/09		
Analysis Date/Time:	04/21/09 16:59 -		

Analyzed by: DS
Date: 4-22-09

Reviewed by: JM
Date: 4-22-09

Method 1613 HZBS0106S001 General Engineering Labs
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Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	Adj. RL (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8-TCDD	ND	0.263	0.841			
1,2,3,7,8-PeCDD	ND	0.377	4.21			
1,2,3,4,7,8-HxCDD	ND	0.356	4.21			
1,2,3,6,7,8-HxCDD	ND	0.387	4.21			
1,2,3,7,8,9-HxCDD	ND	0.374	4.21			
1,2,3,4,6,7,8-HpCDD	2.64	0.522	4.21	39:55	1.02	A
OCDD	14.4	1.01	8.41	44:10	0.88	
2,3,7,8-TCDF	ND	0.371	0.841			
1,2,3,7,8-PeCDF	ND	0.218	4.21			
2,3,4,7,8-PeCDF	ND	0.186	4.21			
1,2,3,4,7,8-HxCDF	ND	0.231	4.21			
1,2,3,6,7,8-HxCDF	ND	0.222	4.21			
2,3,4,6,7,8-HxCDF	ND	0.230	4.21			
1,2,3,7,8,9-HxCDF	ND	0.272	4.21			
1,2,3,4,6,7,8-HpCDF	0.473	0.279	4.21	38:42	0.98	A
1,2,3,4,7,8,9-HpCDF	ND	0.399	4.21			
OCDF	1.27	0.681	8.41	44:26	0.93	A
Total TCDDs	ND	0.263	0.841			
Total PeCDDs	ND	0.377	4.21			
Total HxCDDs	1.56	0.373	4.21			A
Total HpCDDs	9.36	0.522	4.21			
Total TCDFs	ND	0.371	0.841			
Total PeCDFs	ND	0.177	4.21			
Total HxCDFs	0.271	0.238	4.21			A
Total HpCDFs	1.03	0.334	4.21			A
WHO-2005 TEQ (ND=0)	0.0358					
WHO-2005 TEQ (ND=½)	0.987					

Client Information

Project Name: SSFL 227874 H

Sample ID: HZBS0106S001

Laboratory Information

Project ID: G341-577

Sample ID: G341-577-4B

Collection Date/Time: 09-Apr-09 08:20

Receipt Date: 14-Apr-09 10:00

Extraction Date: 15-Apr-09

Analysis Date: 20-Apr-09 22:54

Sample Information

Report Basis: Dry Weight

Matrix: Soil

Weight / Volume: 12.41 Grams

Solids / Lipids: 95.8 %

Original pH: NA

Batch ID: WG17079

Filename: a20apr09a-11

Retchk: a20apr09a-1

Begin ConCal: a20apr09a-1

Initial Cal: m1613-100708a

Method 1613
HZBS0106S001
 General Engineering Labs

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
¹³ C ₁₂ -2,3,7,8-TCDD	2	1.82	90.9	31:05	0.78	
¹³ C ₁₂ -1,2,3,7,8-PeCDD	2	1.90	94.9	33:59	1.57	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDD	2	1.82	91.0	36:33	1.26	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDD	2	1.79	89.3	36:38	1.25	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDD	2	1.93	96.7	39:55	1.06	
¹³ C ₁₂ -OCDD	4.00	3.89	97.2	44:09	0.90	
¹³ C ₁₂ -2,3,7,8-TCDF	2	1.73	86.7	30:17	0.79	
¹³ C ₁₂ -1,2,3,7,8-PeCDF	2	1.80	90.0	33:12	1.58	
¹³ C ₁₂ -2,3,4,7,8-PeCDF	2	1.78	89.1	33:48	1.57	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDF	2	1.69	84.7	35:52	0.52	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDF	2	1.69	84.6	35:57	0.53	
¹³ C ₁₂ -2,3,4,6,7,8-HxCDF	2	1.74	87.1	36:26	0.53	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDF	2	1.76	87.8	37:12	0.53	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDF	2	1.77	88.6	38:41	0.46	
¹³ C ₁₂ -1,2,3,4,7,8,9-HpCDF	2	1.89	94.6	40:34	0.45	
Cleanup Standards						
³⁷ Cl ₄ -2,3,7,8-TCDD	0.400	0.365	91.3	31:06	-	
Injection Standards						
¹³ C ₁₂ -1,2,3,4-TCDD	2.00			30:28	0.79	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDD	2.00			36:53	1.25	

Client Information		Sample Information	
Project Name:	SSFL 227874 H	Report Basis:	Dry Weight
Sample ID:	HZBS0106S001	Matrix:	Soil
		Weight / Volume:	12.41 Grams
		Solids / Lipids:	95.8 %
		Original pH :	NA
		Batch ID:	WG17079
Laboratory Information			
Project ID:	G341-577	Filename:	a20apr09a-11
Sample ID:	G341-577-4B	Retchk:	a20apr09a-1
Collection Date/Time:	09-Apr-09 08:20	Begin ConCal:	a20apr09a-1
Receipt Date:	14-Apr-09 10:00	Initial Cal:	m1613-100708a
Extraction Date:	15-Apr-09		
Analysis Date:	20-Apr-09 22:54		
Analyzed by:	<u>DS</u>	Reviewed by:	<u>TM</u>
Date:	<u>4-22-09</u>	Date:	<u>4-22-09</u>

Form Version: [1613_ed1]Report

Method 1613
HZBS0106S002
 General Engineering Labs

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	Adj. RL (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8-TCDD	ND	0.266	0.866			
1,2,3,7,8-PeCDD	ND	0.249	4.33			
1,2,3,4,7,8-HxCDD	ND	0.311	4.33			
1,2,3,6,7,8-HxCDD	ND	0.321	4.33			
1,2,3,7,8,9-HxCDD	ND	0.318	4.33			
1,2,3,4,6,7,8-HpCDD	0.514	0.496	4.33	39:55	1.08	A
OCDD	3.58	1.04	8.66	44:09	0.88	A
2,3,7,8-TCDF	ND	0.348	0.866			
1,2,3,7,8-PeCDF	ND	0.180	4.33			
2,3,4,7,8-PeCDF	ND	0.173	4.33			
1,2,3,4,7,8-HxCDF	ND	0.220	4.33			
1,2,3,6,7,8-HxCDF	ND	0.197	4.33			
2,3,4,6,7,8-HxCDF	ND	0.204	4.33			
1,2,3,7,8,9-HxCDF	ND	0.261	4.33			
1,2,3,4,6,7,8-HpCDF	ND	0.312	4.33			
1,2,3,4,7,8,9-HpCDF	ND	0.428	4.33			
OCDF	0.890	0.696	8.66	44:25	0.83	A
Total TCDDs	ND	0.266	0.866			
Total PeCDDs	ND	0.249	4.33			
Total HxCDDs	ND	0.317	4.33			
Total HpCDDs	1.48	0.496	4.33			A
Total TCDFs	ND	0.348	0.866			
Total PeCDFs	ND	0.169	4.33			
Total HxCDFs	0.251	0.219	4.33			A
Total HpCDFs	ND	0.364	4.33			
WHO-2005 TEQ (ND=0)	0.00648					
WHO-2005 TEQ (ND=1/2)	0.804					

<u>Client Information</u>		<u>Sample Information</u>	
Project Name:	SSFL 227874 H	Report Basis:	Dry Weight
Sample ID:	HZBS0106S002	Matrix:	Soil
		Weight / Volume:	12.64 Grams
		Solids / Lipids:	91.4 %
		Original pH :	NA
		Batch ID:	WG17079
<u>Laboratory Information</u>			
Project ID:	G341-577	Filename:	a20apr09a-12
Sample ID:	G341-577-5B	Retchk:	a20apr09a-1
Collection Date/Time:	09-Apr-09 08:30	Begin ConCal:	a20apr09a-1
Receipt Date:	14-Apr-09 10:00	Initial Cal:	m1613-100708a
Extraction Date:	15-Apr-09		
Analysis Date:	20-Apr-09 23:43		

Method 1613
HZBS0106S002
 General Engineering Labs

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
¹³ C ₁₂ -2,3,7,8-TCDD	2	1.81	90.3	31:04	0.78	
¹³ C ₁₂ -1,2,3,7,8-PeCDD	2	1.99	99.6	33:59	1.57	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDD	2	1.80	90.0	36:33	1.27	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDD	2	1.73	86.7	36:38	1.25	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDD	2	1.89	94.4	39:54	1.05	
¹³ C ₁₂ -OCDD	4.00	3.88	97.0	44:08	0.90	
¹³ C ₁₂ -2,3,7,8-TCDF	2	1.76	88.0	30:17	0.79	
¹³ C ₁₂ -1,2,3,7,8-PeCDF	2	1.88	93.9	33:12	1.57	
¹³ C ₁₂ -2,3,4,7,8-PeCDF	2	1.90	95.0	33:48	1.57	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDF	2	1.69	84.3	35:51	0.52	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDF	2	1.66	83.0	35:57	0.53	
¹³ C ₁₂ -2,3,4,6,7,8-HxCDF	2	1.73	86.5	36:26	0.53	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDF	2	1.74	86.9	37:11	0.52	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDF	2	1.74	87.2	38:41	0.45	
¹³ C ₁₂ -1,2,3,4,7,8,9-HpCDF	2	1.88	93.8	40:34	0.45	
Cleanup Standards						
³⁷ Cl ₄ -2,3,7,8-TCDD	0.400	0.379	94.8	31:05	-	
Injection Standards						
¹³ C ₁₂ -1,2,3,4-TCDD	2.00			30:28	0.79	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDD	2.00			36:53	1.25	

Client Information		Sample Information	
Project Name:	SSFL 227874 H	Report Basis:	Dry Weight
Sample ID:	HZBS0106S002	Matrix:	Soil
		Weight / Volume:	12.64 Grams
		Solids / Lipids:	91.4 %
		Original pH :	NA
		Batch ID:	WG17079
Laboratory Information		Filename:	a20apr09a-12
Project ID:	G341-577	Retchk:	a20apr09a-1
Sample ID:	G341-577-5B	Begin ConCal:	a20apr09a-1
Collection Date/Time:	09-Apr-09 08:30	Initial Cal:	m1613-100708a
Receipt Date:	14-Apr-09 10:00		
Extraction Date:	15-Apr-09		
Analysis Date:	20-Apr-09 23:43		
Analyzed by:	<u>DS</u>	Reviewed by:	<u>TM</u>
Date:	<u>4-22-09</u>	Date:	<u>4-22-09</u>

Form Version: [1613_ed]Report

Method 1613 HZBS0107D001 General Engineering Labs
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Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	Adj. RL (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8-TCDD	ND	0.264	0.862			
1,2,3,7,8-PeCDD	1.11	0.280	4.31	34:00	1.47	A
1,2,3,4,7,8-HxCDD	2.29	0.288	4.31	36:33	1.31	A
1,2,3,6,7,8-HxCDD	7.66	0.285	4.31	36:38	1.24	
1,2,3,7,8,9-HxCDD	4.84	0.288	4.31	36:53	1.19	
1,2,3,4,6,7,8-HpCDD	205	0.882	4.31	39:55	1.04	
OCDD	2850	0.813	8.62	44:10	0.89	
2,3,7,8-TCDF	0.723	0.346	0.862	30:18	0.76	A
1,2,3,7,8-PeCDF	0.688	0.193	4.31	33:12	1.47	A
2,3,4,7,8-PeCDF	1.26	0.203	4.31	33:49	1.54	A
1,2,3,4,7,8-HxCDF	2.01	0.315	4.31	35:52	1.27	A
1,2,3,6,7,8-HxCDF	1.23	0.297	4.31	35:57	1.34	A
2,3,4,6,7,8-HxCDF	1.60	0.309	4.31	36:26	1.24	A
1,2,3,7,8,9-HxCDF	0.828	0.397	4.31	37:12	1.24	A
1,2,3,4,6,7,8-HpCDF	27.4	0.296	4.31	38:41	1.05	
1,2,3,4,7,8,9-HpCDF	1.66	0.436	4.31	40:34	0.99	A
OCDF	102	0.570	8.62	44:27	0.89	
Total TCDDs	0.486	0.264	0.862			A
Total PeCDDs	5.31	0.280	4.31			
Total HxCDDs	55.9	0.287	4.31			
Total HpCDDs	842	0.882	4.31			
Total TCDFs	3.94	0.346	0.862			
Total PeCDFs	12.2	0.198	4.31			
Total HxCDFs	36.3	0.327	4.31			
Total HpCDFs	83.2	0.360	4.31			
WHO-2005 TEQ (ND=0)	6.85					
WHO-2005 TEQ (ND=1/2)	7.12					

Client Information

Project Name: SSFL 227874 H

Sample ID: HZBS0107D001

Laboratory Information

Project ID: G341-577
 Sample ID: G341-577-6B
 Collection Date: 09-Apr-09 00:00
 Receipt Date: 14-Apr-09 10:00
 Extraction Date: 15-Apr-09
 Analysis Date: 21-Apr-09 0:31

Sample Information

Report Basis: Dry Weight
 Matrix: Soil
 Weight / Volume: 12.11 Grams
 Solids / Lipids: 95.8 %
 Original pH : NA
 Batch ID: WG17079

Filename: a20apr09a-13
 Retchk: a20apr09a-1
 Begin ConCal: a20apr09a-1
 Initial Cal: m1613-100708a

Method 1613
HZBS0107D001
 General Engineering Labs

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
¹³ C ₁₂ -2,3,7,8-TCDD	2	1.87	93.6	31:04	0.78	
¹³ C ₁₂ -1,2,3,7,8-PeCDD	2	2.07	103	33:59	1.56	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDD	2	1.85	92.3	36:33	1.27	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDD	2	1.73	86.6	36:38	1.24	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDD	2	1.93	96.7	39:54	1.06	
¹³ C ₁₂ -OCDD	4.00	4.12	103	44:09	0.90	
¹³ C ₁₂ -2,3,7,8-TCDF	2	1.85	92.4	30:17	0.79	
¹³ C ₁₂ -1,2,3,7,8-PeCDF	2	1.99	99.7	33:12	1.57	
¹³ C ₁₂ -2,3,4,7,8-PeCDF	2	1.95	97.7	33:48	1.58	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDF	2	1.74	87.1	35:51	0.52	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDF	2	1.66	82.9	35:57	0.52	
¹³ C ₁₂ -2,3,4,6,7,8-HxCDF	2	1.77	88.3	36:26	0.52	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDF	2	1.78	89.0	37:11	0.53	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDF	2	1.76	88.2	38:40	0.45	
¹³ C ₁₂ -1,2,3,4,7,8,9-HpCDF	2	1.90	95.0	40:33	0.45	
Cleanup Standards						
³⁷ Cl ₄ -2,3,7,8-TCDD	0.400	0.389	97.3	31:05	-	
Injection Standards						
¹³ C ₁₂ -1,2,3,4-TCDD	2.00			30:28	0.79	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDD	2.00			36:52	1.25	

Client Information		Sample Information	
Project Name:	SSFL 227874 H	Report Basis:	Dry Weight
Sample ID:	HZBS0107D001	Matrix:	Soil
		Weight / Volume:	12.11 Grams
		Solids / Lipids:	95.8 %
		Original pH :	NA
		Batch ID:	WG17079
Laboratory Information		Filename:	a20apr09a-13
Project ID:	G341-577	Retchk:	a20apr09a-1
Sample ID:	G341-577-6B	Begin ConCal:	a20apr09a-1
Collection Date:	09-Apr-09 00:00	Initial Cal:	m1613-100708a
Receipt Date:	14-Apr-09 10:00		
Extraction Date:	15-Apr-09		
Analysis Date:	21-Apr-09 0:31		
Analyzed by:	<u>DS</u>	Reviewed by:	<u>TM</u>
Date:	<u>4-22-09</u>	Date:	<u>4-22-09</u>

Form Version: [1613_ed] Report

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Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	Adj. RL (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8-TCDD	ND	0.275	0.840			
1,2,3,7,8-PeCDD	1.18	0.292	4.20	33:59	1.63	A
1,2,3,4,7,8-HxCDD	2.33	0.402	4.20	36:33	1.32	A
1,2,3,6,7,8-HxCDD	8.03	0.427	4.20	36:38	1.24	
1,2,3,7,8,9-HxCDD	4.99	0.418	4.20	36:53	1.26	
1,2,3,4,6,7,8-HpCDD	227	0.668	4.20	39:55	1.04	
OCDD	3060	0.779	8.40	44:10	0.90	
2,3,7,8-TCDF	0.719	0.409	0.840	30:18	0.79	A
1,2,3,7,8-PeCDF	0.734	0.260	4.20	33:12	1.44	A
2,3,4,7,8-PeCDF	1.40	0.244	4.20	33:48	1.51	A
1,2,3,4,7,8-HxCDF	2.11	0.402	4.20	35:52	1.16	A
1,2,3,6,7,8-HxCDF	1.19	0.354	4.20	35:58	1.28	A
2,3,4,6,7,8-HxCDF	1.66	0.379	4.20	36:27	1.30	A
1,2,3,7,8,9-HxCDF	0.860	0.481	4.20	37:13	1.19	A
1,2,3,4,6,7,8-HpCDF	29.4	0.403	4.20	38:41	1.04	
1,2,3,4,7,8,9-HpCDF	1.62	0.567	4.20	40:34	1.11	A
OCDF	103	0.589	8.40	44:26	0.9	
Total TCDDs	0.539	0.275	0.840			A
Total PeCDDs	5.65	0.292	4.20			
Total HxCDDs	59.3	0.416	4.20			
Total HpCDDs	919	0.668	4.20			
Total TCDFs	4.16	0.409	0.840			
Total PeCDFs	13.8	0.252	4.20			
Total HxCDFs	39.9	0.401	4.20			
Total HpCDFs	90.1	0.477	4.20			
WHO-2005 TEQ (ND=0)	7.34					
WHO-2005 TEQ (ND=1/2)	7.62					

<u>Client Information</u>		<u>Sample Information</u>	
Project Name:	SSFL 227874 H	Report Basis:	Dry Weight
Sample ID:	HZBS0107S001	Matrix:	Soil
		Weight / Volume:	12.13 Grams
		Solids / Lipids:	98.1 %
		Original pH :	NA
		Batch ID:	WG17079
<u>Laboratory Information</u>			
Project ID:	G341-577	Filename:	a20apr09a-14 *
Sample ID:	G341-577-7B	Retchk:	a20apr09a-1
Collection Date/Time:	09-Apr-09 08:10 ~	Begin ConCal:	a20apr09a-1
Receipt Date:	14-Apr-09 10:00 ~		
Extraction Date:	15-Apr-09		
Analysis Date:	21-Apr-09 1:19 ✓	Initial Cal:	m1613-100708a

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Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
¹³ C ₁₂ -2,3,7,8-TCDD	2	1.95	97.5	31:04	0.80	
¹³ C ₁₂ -1,2,3,7,8-PeCDD	2	2.06	103	33:59	1.57	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDD	2	1.85	92.3	36:33	1.27	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDD	2	1.80	89.9	36:38	1.24	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDD	2	1.98	99.1	39:54	1.06	
¹³ C ₁₂ -OCDD	4.00	4.32	108	44:08	0.90	
¹³ C ₁₂ -2,3,7,8-TCDF	2	1.89	94.6	30:17	0.79	
¹³ C ₁₂ -1,2,3,7,8-PeCDF	2	2.00	100	33:11	1.59	
¹³ C ₁₂ -2,3,4,7,8-PeCDF	2	1.98	99.1	33:48	1.57	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDF	2	1.77	88.4	35:51	0.52	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDF	2	1.73	86.3	35:57	0.53	
¹³ C ₁₂ -2,3,4,6,7,8-HxCDF	2	1.80	90.1	36:26	0.53	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDF	2	1.84	91.9	37:11	0.53	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDF	2	1.84	92.0	38:41	0.45	
¹³ C ₁₂ -1,2,3,4,7,8,9-HpCDF	2	1.96	97.8	40:33	0.45	
Cleanup Standards						
³⁷ Cl ₄ -2,3,7,8-TCDD	0.400	0.393	98.3	31:05	-	
Injection Standards						
¹³ C ₁₂ -1,2,3,4-TCDD	2.00			30:28	0.79	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDD	2.00			36:52	1.25	

Client Information		Sample Information	
Project Name:	SSFL 227874 H	Report Basis:	Dry Weight
Sample ID:	HZBS0107S001	Matrix:	Soil
		Weight / Volume:	12.13 Grams
		Solids / Lipids:	98.1 %
		Original pH :	NA
		Batch ID:	WG17079
Laboratory Information			
Project ID:	G341-577	Filename:	a20apr09a-14
Sample ID:	G341-577-7B	Retchk:	a20apr09a-1
Collection Date/Time:	09-Apr-09 08:10	Begin ConCal:	a20apr09a-1
Receipt Date:	14-Apr-09 10:00	Initial Cal:	m1613-100708a
Extraction Date:	15-Apr-09		
Analysis Date:	21-Apr-09 1:19		
Analyzed by:	<u>DS</u>	Reviewed by:	<u>JM</u>
Date:	<u>4-22-09</u>	Date:	<u>4-22-09</u>

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Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	Adj. RL (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8-TCDD	ND	0.245	0.872			
1,2,3,7,8-PeCDD	0.548	0.295	4.36	33:59	1.41	A
1,2,3,4,7,8-HxCDD	1.07	0.405	4.36	36:34	1.39	A
1,2,3,6,7,8-HxCDD	4.80	0.398	4.36	36:39	1.26	
1,2,3,7,8,9-HxCDD	1.79	0.404	4.36	36:54	1.34	A
1,2,3,4,6,7,8-HpCDD	129	0.703	4.36	39:57	1.04	
OCDD	2260	0.889	8.72	44:16	0.89	
2,3,7,8-TCDF	0.844	0.360	0.872	30:18	0.81	A
1,2,3,7,8-PeCDF	0.494	0.222	4.36	33:12	1.70	A
2,3,4,7,8-PeCDF	1.16	0.195	4.36	33:48	1.38	A
1,2,3,4,7,8-HxCDF	1.71	0.321	4.36	35:52	1.38	A
1,2,3,6,7,8-HxCDF	0.769	0.322	4.36	35:58	1.42	A
2,3,4,6,7,8-HxCDF	1.02	0.334	4.36	36:27	1.25	A
1,2,3,7,8,9-HxCDF	0.678	0.437	4.36	37:13	1.36	A
1,2,3,4,6,7,8-HpCDF	16.5	0.442	4.36	38:43	1.05	
1,2,3,4,7,8,9-HpCDF	1.39	0.578	4.36	40:37	0.93	A
OCDF	ND	0.634	8.72			
Total TCDDs	0.366	0.245	0.872			A
Total PeCDDs	3.86	0.295	4.36			A
Total HxCDDs	37.2	0.403	4.36			
Total HpCDDs	695	0.703	4.36			
Total TCDFs	4.08	0.360	0.872			
Total PeCDFs	11.1	0.208	4.36			
Total HxCDFs	33.8	0.351	4.36			
Total HpCDFs	60.2	0.503	4.36			
WHO-2005 TEQ (ND=0)	4.33					
WHO-2005 TEQ (ND=½)	4.57					

<u>Client Information</u>		<u>Sample Information</u>	
Project Name:	SSFL 227874 H	Report Basis:	Dry Weight
Sample ID:	HZBS0062S001	Matrix:	Soil
		Weight / Volume:	12.52 Grams
		Solids / Lipids:	91.6 %
		Original pH :	NA
		Batch ID:	WG17079
<u>Laboratory Information</u>			
Project ID:	G341-577	Filename:	a20apr09a_2-5
Sample ID:	G341-577-9B	Retchk:	a20apr09a-15
Collection Date/Time:	24-Feb-09 11:01	Begin ConCal:	a20apr09a-15
Receipt Date:	15-Apr-09 10:00		
Extraction Date:	15-Apr-09		
Analysis Date:	21-Apr-09 6:14	Initial Cal:	m1613-100708a

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HZBS0062S001
 General Engineering Labs

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
¹³ C ₁₂ -2,3,7,8-TCDD	2	1.81	90.7	31:04	0.78	
¹³ C ₁₂ -1,2,3,7,8-PeCDD	2	1.93	96.4	33:59	1.57	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDD	2	1.85	92.6	36:33	1.26	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDD	2	1.73	86.4	36:38	1.26	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDD	2	1.86	93.2	39:57	1.05	
¹³ C ₁₂ -OCDD	4.00	3.88	97.1	44:15	0.90	
¹³ C ₁₂ -2,3,7,8-TCDF	2	1.80	90.2	30:17	0.79	
¹³ C ₁₂ -1,2,3,7,8-PeCDF	2	1.90	94.9	33:12	1.57	
¹³ C ₁₂ -2,3,4,7,8-PeCDF	2	1.87	93.5	33:48	1.59	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDF	2	1.75	87.6	35:51	0.52	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDF	2	1.68	84.1	35:57	0.53	
¹³ C ₁₂ -2,3,4,6,7,8-HxCDF	2	1.75	87.5	36:27	0.52	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDF	2	1.77	88.7	37:12	0.53	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDF	2	1.75	87.3	38:42	0.46	
¹³ C ₁₂ -1,2,3,4,7,8,9-HpCDF	2	1.85	92.4	40:36	0.45	
Cleanup Standards						
³⁷ Cl ₄ -2,3,7,8-TCDD	0.400	0.378	94.5	31:05	-	
Injection Standards						
¹³ C ₁₂ -1,2,3,4-TCDD	2.00			30:28	0.79	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDD	2.00			36:53	1.26	

Client Information		Sample Information	
Project Name:	SSFL 227874 H	Report Basis:	Dry Weight
Sample ID:	HZBS0062S001	Matrix:	Soil
		Weight / Volume:	12.52 Grams
		Solids / Lipids:	91.6 %
		Original pH :	NA
		Batch ID:	WG17079
Laboratory Information		Filename:	a20apr09a_2-5
Project ID:	G341-577	Retchk:	a20apr09a-15
Sample ID:	G341-577-9B	Begin ConCal:	a20apr09a-15
Collection Date/Time:	24-Feb-09 11:01	Initial Cal:	m1613-100708a
Receipt Date:	15-Apr-09 10:00		
Extraction Date:	15-Apr-09		
Analysis Date:	21-Apr-09 6:14		
Analyzed by:	<u>DS</u>	Reviewed by:	<u>TM</u>
Date:	<u>4-23-09</u>	Date:	<u>4-23-09</u>

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Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	Adj. RL (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8-TCDD	ND	0.304	0.853			
1,2,3,7,8-PeCDD	ND	0.312	4.26			
1,2,3,4,7,8-HxCDD	ND	0.382	4.26			
1,2,3,6,7,8-HxCDD	ND	0.895	4.26			EMPC
1,2,3,7,8,9-HxCDD	0.912	0.385	4.26	36:53	1.42	A
1,2,3,4,6,7,8-HpCDD	5.88	0.552	4.26	39:55	1.02	
OCDD	61.4	0.817	8.53	44:09	0.88	
2,3,7,8-TCDF	0.443	0.378	0.853	30:19	0.78	A
1,2,3,7,8-PeCDF	ND	0.214	4.26			
2,3,4,7,8-PeCDF	0.229	0.187	4.26	33:48	1.48	A
1,2,3,4,7,8-HxCDF	ND	0.239	4.26			
1,2,3,6,7,8-HxCDF	0.271	0.220	4.26	35:58	1.30	A
2,3,4,6,7,8-HxCDF	ND	0.233	4.26			
1,2,3,7,8,9-HxCDF	ND	0.295	4.26			
1,2,3,4,6,7,8-HpCDF	1.32	0.288	4.26	38:41	1.00	A
1,2,3,4,7,8,9-HpCDF	ND	0.406	4.26			
OCDF	3.28	0.712	8.53	44:26	0.91	A
Total TCDDs	ND	0.304	0.853			
Total PeCDDs	ND	0.312	4.26			
Total HxCDDs	1.64	0.384	4.26			A
Total HpCDDs	21.4	0.552	4.26			
Total TCDFs	0.837	0.378	0.853			A
Total PeCDFs	0.551	0.201	4.26			A
Total HxCDFs	2.13	0.245	4.26			A
Total HpCDFs	4.00	0.342	4.26			A
WHO-2005 TEQ (ND=0)	0.323					
WHO-2005 TEQ (ND=1/2)	1.15					

<u>Client Information</u>		<u>Sample Information</u>	
Project Name:	SSFL 227874 H	Report Basis:	Dry Weight
Sample ID:	HZBS0069S001	Matrix:	Soil
		Weight / Volume:	12.79 Grams
		Solids / Lipids:	91.7 %
		Original pH :	NA
		Batch ID:	WG17079
<u>Laboratory Information</u>			
Project ID:	G341-577	Filename:	a20apr09a_2-6
Sample ID:	G341-577-10B	Retchk:	a20apr09a-15
Collection Date/Time:	25-Feb-09 12:51	Begin ConCal:	a20apr09a-15
Receipt Date:	15-Apr-09 10:00	Initial Cal:	m1613-100708a
Extraction Date:	15-Apr-09		
Analysis Date:	21-Apr-09 7:02		

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Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
¹³ C ₁₂ -2,3,7,8-TCDD	2	1.81	90.7	31:04	0.78	
¹³ C ₁₂ -1,2,3,7,8-PeCDD	2	1.89	94.3	33:59	1.59	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDD	2	1.74	87.2	36:33	1.25	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDD	2	1.74	87.0	36:38	1.25	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDD	2	1.85	92.3	39:54	1.06	
¹³ C ₁₂ -OCDD	4.00	3.70	92.5	44:08	0.90	
¹³ C ₁₂ -2,3,7,8-TCDF	2	1.75	87.4	30:17	0.79	
¹³ C ₁₂ -1,2,3,7,8-PeCDF	2	1.84	91.9	33:11	1.58	
¹³ C ₁₂ -2,3,4,7,8-PeCDF	2	1.82	91.0	33:48	1.58	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDF	2	1.68	83.9	35:51	0.52	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDF	2	1.65	82.7	35:57	0.53	
¹³ C ₁₂ -2,3,4,6,7,8-HxCDF	2	1.70	85.0	36:26	0.53	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDF	2	1.72	86.2	37:11	0.53	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDF	2	1.69	84.5	38:41	0.45	
¹³ C ₁₂ -1,2,3,4,7,8,9-HpCDF	2	1.85	92.3	40:33	0.45	
Cleanup Standards						
³⁷ Cl ₄ -2,3,7,8-TCDD	0.400	0.377	94.3	31:05	-	
Injection Standards						
¹³ C ₁₂ -1,2,3,4-TCDD	2.00			30:28	0.79	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDD	2.00			36:52	1.25	

Client Information		Sample Information	
Project Name:	SSFL 227874 H	Report Basis:	Dry Weight
Sample ID:	HZBS0069S001	Matrix:	Soil
		Weight / Volume:	12.79 Grams
		Solids / Lipids:	91.7 %
		Original pH :	NA
		Batch ID:	WG17079
Laboratory Information		Filename:	a20apr09a_2-6
Project ID:	G341-577	Retchk:	a20apr09a-15
Sample ID:	G341-577-10B	Begin ConCal:	a20apr09a-15
Collection Date/Time:	25-Feb-09 12:51	Initial Cal:	m1613-100708a
Receipt Date:	15-Apr-09 10:00		
Extraction Date:	15-Apr-09		
Analysis Date:	21-Apr-09 7:02		
Analyzed by:	<u>DS</u>	Reviewed by:	<u>TM</u>
Date:	<u>4-23-09</u>	Date:	<u>4-23-09</u>

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Method 1613

HZBS0080S001

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Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	Adj. RL (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8-TCDD	ND	0.296	0.874			
1,2,3,7,8-PeCDD	ND	0.316	4.37			
1,2,3,4,7,8-HxCDD	ND	0.329	4.37			
1,2,3,6,7,8-HxCDD	0.482	0.325	4.37	36:38	1.16	A
1,2,3,7,8,9-HxCDD	0.405	0.329	4.37	36:52	1.16	A
1,2,3,4,6,7,8-HpCDD	6.27	0.493	4.37	39:55	1.06	
OCDD	49.2	0.785	8.74	44:09	0.89	
2,3,7,8-TCDF	ND	0.502	0.874			EMPC
1,2,3,7,8-PeCDF	ND	0.193	4.37			
2,3,4,7,8-PeCDF	0.255	0.191	4.37	33:48	1.5	A
1,2,3,4,7,8-HxCDF	ND	0.268	4.37			
1,2,3,6,7,8-HxCDF	ND	0.250	4.37			
2,3,4,6,7,8-HxCDF	ND	0.258	4.37			
1,2,3,7,8,9-HxCDF	ND	0.325	4.37			
1,2,3,4,6,7,8-HpCDF	1.50	0.238	4.37	38:41	1.01	A
1,2,3,4,7,8,9-HpCDF	ND	0.331	4.37			
OCDF	2.87	0.596	8.74	44:25	0.85	A
Total TCDDs	ND	0.296	0.874			
Total PeCDDs	ND	0.316	4.37			
Total HxCDDs	2.88	0.328	4.37			A
Total HpCDDs	19.6	0.493	4.37			
Total TCDFs	0.727	0.392	0.874			A
Total PeCDFs	2.09	0.192	4.37			A
Total HxCDFs	0.977	0.274	4.37			A
Total HpCDFs	3.29	0.281	4.37			A
WHO-2005 TEQ (ND=0)	0.259					
WHO-2005 TEQ (ND=1/2)	1.07					

Client Information

Project Name: SSFL 227874 H

Sample ID: HZBS0080S001

Laboratory Information

Project ID: G341-577
Sample ID: G341-577-11B
Collection Date/Time: 25-Feb-09 10:02
Receipt Date: 15-Apr-09 10:00
Extraction Date: 15-Apr-09
Analysis Date: 21-Apr-09 7:51

Sample Information

Report Basis: Dry Weight
Matrix: Soil
Weight / Volume: 13.28 Grams
Solids / Lipids: 86.2 %
Original pH: NA
Batch ID: WG17079

Filename: a20apr09a_2-7
Retchk: a20apr09a-15
Begin ConCal: a20apr09a-15
Initial Cal: m1613-100708a

Method 1613
HZBS0080S001
 General Engineering Labs

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
¹³ C ₁₂ -2,3,7,8-TCDD	2	1.83	91.5	31:04	0.78	
¹³ C ₁₂ -1,2,3,7,8-PeCDD	2	1.95	97.5	33:59	1.58	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDD	2	1.79	89.5	36:33	1.26	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDD	2	1.71	85.6	36:38	1.25	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDD	2	1.89	94.7	39:54	1.05	
¹³ C ₁₂ -OCDD	4.00	3.90	97.6	44:08	0.90	
¹³ C ₁₂ -2,3,7,8-TCDF	2	1.79	89.5	30:17	0.78	
¹³ C ₁₂ -1,2,3,7,8-PeCDF	2	1.89	94.5	33:11	1.57	
¹³ C ₁₂ -2,3,4,7,8-PeCDF	2	1.85	92.7	33:48	1.58	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDF	2	1.70	85.0	35:51	0.53	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDF	2	1.64	82.2	35:57	0.53	
¹³ C ₁₂ -2,3,4,6,7,8-HxCDF	2	1.73	86.3	36:26	0.53	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDF	2	1.75	87.5	37:11	0.53	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDF	2	1.74	87.2	38:40	0.46	
¹³ C ₁₂ -1,2,3,4,7,8,9-HpCDF	2	1.88	94.1	40:33	0.46	
Cleanup Standards						
³⁷ Cl ₄ -2,3,7,8-TCDD	0.400	0.383	95.8	31:05	-	
Injection Standards						
¹³ C ₁₂ -1,2,3,4-TCDD	2.00			30:27	0.79	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDD	2.00			36:52	1.25	

Client Information		Sample Information	
Project Name:	SSFL 227874 H	Report Basis:	Dry Weight
Sample ID:	HZBS0080S001	Matrix:	Soil
		Weight / Volume:	13.28 Grams
		Solids / Lipids:	86.2 %
		Original pH :	NA
		Batch ID:	WG17079
Laboratory Information		Filename:	a20apr09a_2-7
Project ID:	G341-577	Retchk:	a20apr09a-15
Sample ID:	G341-577-11B	Begin ConCal:	a20apr09a-15
Collection Date/Time:	25-Feb-09 10:02	Initial Cal:	m1613-100708a
Receipt Date:	15-Apr-09 10:00		
Extraction Date:	15-Apr-09		
Analysis Date:	21-Apr-09 7:51		
Analyzed by: <u>DS</u>		Reviewed by: <u>JM</u>	
Date: <u>4-23-09</u>		Date: <u>4-23-09</u>	

Form Version: [1613_ed1]Report

Method 1613
HZBS0082S001
 General Engineering Labs

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	Adj. RL (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8-TCDD	ND	0.247	0.869			
1,2,3,7,8-PeCDD	ND	0.275	4.34			
1,2,3,4,7,8-HxCDD	ND	0.325	4.34			
1,2,3,6,7,8-HxCDD	0.490	0.338	4.34	36:38	1.2	A
1,2,3,7,8,9-HxCDD	ND	0.341	4.34			EMPC
1,2,3,4,6,7,8-HpCDD	5.65	0.494	4.34	39:54	1.04	
OCDD	49.8	0.863	8.69	44:09	0.90	
2,3,7,8-TCDF	0.563	0.520	0.869	30:18	0.86	A
1,2,3,7,8-PeCDF	0.247	0.244	4.34	33:12	1.59	A
2,3,4,7,8-PeCDF	ND	0.492	4.34			EMPC
1,2,3,4,7,8-HxCDF	0.648	0.262	4.34	35:51	1.23	A
1,2,3,6,7,8-HxCDF	0.525	0.254	4.34	35:57	1.31	A
2,3,4,6,7,8-HxCDF	0.587	0.270	4.34	36:26	1.09	A
1,2,3,7,8,9-HxCDF	ND	0.328	4.34			
1,2,3,4,6,7,8-HpCDF	3.71	0.284	4.34	38:41	1.03	A
1,2,3,4,7,8,9-HpCDF	ND	0.406	4.34			
OCDF	4.87	0.608	8.69	44:25	0.87	A
Total TCDDs	ND	0.247	0.869			
Total PeCDDs	ND	0.275	4.34			
Total HxCDDs	3.07	0.333	4.34			A
Total HpCDDs	20.6	0.494	4.34			
Total TCDFs	0.563	0.520	0.869			A
Total PeCDFs	4.17	0.243	4.34			A
Total HxCDFs	5.17	0.277	4.34			
Total HpCDFs	5.61	0.339	4.34			
WHO-2005 TEQ (ND=0)	0.399					
WHO-2005 TEQ (ND=1/2)	1.17					

Client Information

Project Name: SSFL 227874 H

Sample ID: HZBS0082S001

Laboratory Information

Project ID: G341-577
 Sample ID: G341-577-12B
 Collection Date/Time: 25-Feb-09 09:00
 Receipt Date: 15-Apr-09 10:00
 Extraction Date: 15-Apr-09
 Analysis Date: 21-Apr-09 8:39

Sample Information

Report Basis: Dry Weight
 Matrix: Soil
 Weight / Volume: 13.37 Grams
 Solids / Lipids: 86.1 %
 Original pH : NA
 Batch ID: WG17079

Filename: a20apr09a_2-8
 Retchk: a20apr09a-15
 Begin ConCal: a20apr09a-15
 Initial Cal: m1613-100708a

Method 1613
HZBS0082S001
 General Engineering Labs

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
¹³ C ₁₂ -2,3,7,8-TCDD	2	1.88	94.0	31:04	0.78	
¹³ C ₁₂ -1,2,3,7,8-PeCDD	2	1.99	99.7	33:58	1.56	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDD	2	1.88	93.9	36:33	1.25	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDD	2	1.75	87.7	36:38	1.26	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDD	2	1.99	99.3	39:54	1.05	
¹³ C ₁₂ -OCDD	4.00	4.19	105	44:08	0.90	
¹³ C ₁₂ -2,3,7,8-TCDF	2	1.86	93.1	30:16	0.79	
¹³ C ₁₂ -1,2,3,7,8-PeCDF	2	1.96	98.2	33:11	1.58	
¹³ C ₁₂ -2,3,4,7,8-PeCDF	2	1.94	97.1	33:48	1.58	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDF	2	1.78	89.2	35:51	0.52	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDF	2	1.73	86.3	35:57	0.53	
¹³ C ₁₂ -2,3,4,6,7,8-HxCDF	2	1.80	90.0	36:26	0.53	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDF	2	1.85	92.3	37:10	0.52	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDF	2	1.84	92.2	38:40	0.46	
¹³ C ₁₂ -1,2,3,4,7,8,9-HpCDF	2	1.97	98.6	40:33	0.45	
Cleanup Standards						
³⁷ Cl ₄ -2,3,7,8-TCDD	0.400	0.378	94.5	31:05	-	
Injection Standards						
¹³ C ₁₂ -1,2,3,4-TCDD	2.00			30:27	0.79	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDD	2.00			36:52	1.25	

Client Information		Sample Information	
Project Name:	SSFL 227874 H	Report Basis:	Dry Weight
Sample ID:	HZBS0082S001	Matrix:	Soil
		Weight / Volume:	13.37 Grams
		Solids / Lipids:	86.1 %
		Original pH :	NA
		Batch ID:	WG17079
Laboratory Information			
Project ID:	G341-577	Filename:	a20apr09a_2-8
Sample ID:	G341-577-12B	Retchk:	a20apr09a-15
Collection Date/Time:	25-Feb-09 09:00	Begin ConCal:	a20apr09a-15
Receipt Date:	15-Apr-09 10:00		
Extraction Date:	15-Apr-09		
Analysis Date:	21-Apr-09 8:39	Initial Cal:	m1613-100708a
Analyzed by:	<u>DS</u>	Reviewed by:	<u>TM</u>
Date:	<u>4-23-09</u>	Date:	<u>4-23-09</u>

Form Version:[1613_ed1]Report

Method 1613
HZBS0084S001
 General Engineering Labs

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	Adj. RL (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8-TCDD	ND	0.230	0.877			
1,2,3,7,8-PeCDD	ND	0.341	4.38			
1,2,3,4,7,8-HxCDD	ND	0.333	4.38			
1,2,3,6,7,8-HxCDD	ND	0.452	4.38			EMPC
1,2,3,7,8,9-HxCDD	0.379	0.327	4.38	36:52	1.24	A
1,2,3,4,6,7,8-HpCDD	5.53	0.504	4.38	39:55	1.06	
OCDD	46.2	0.790	8.77	44:08	0.89	
2,3,7,8-TCDF	0.531	0.389	0.877	30:18	0.72	A
1,2,3,7,8-PeCDF	ND	0.158	4.38			
2,3,4,7,8-PeCDF	0.333	0.167	4.38	33:48	1.5	A
1,2,3,4,7,8-HxCDF	ND	0.268	4.38			
1,2,3,6,7,8-HxCDF	ND	0.256	4.38			
2,3,4,6,7,8-HxCDF	ND	0.257	4.38			
1,2,3,7,8,9-HxCDF	ND	0.326	4.38			
1,2,3,4,6,7,8-HpCDF	1.42	0.298	4.38	38:41	1.02	A
1,2,3,4,7,8,9-HpCDF	ND	0.441	4.38			
OCDF	2.73	0.597	8.77	44:25	0.86	A
Total TCDDs	ND	0.230	0.877			
Total PeCDDs	ND	0.341	4.38			
Total HxCDDs	1.35	0.325	4.38			A
Total HpCDDs	18.9	0.504	4.38			
Total TCDFs	1.97	0.389	0.877			
Total PeCDFs	2.72	0.196	4.38			A
Total HxCDFs	1.83	0.275	4.38			A
Total HpCDFs	2.74	0.363	4.38			A
WHO-2005 TEQ (ND=0)	0.275					
WHO-2005 TEQ (ND=½)	1.04					

Client Information

Project Name: SSFL 227874 H

Sample ID: HZBS0084S001

Laboratory Information

Project ID: G341-577
 Sample ID: G341-577-13C
 Collection Date/Time: 25-Feb-09 08:40
 Receipt Date: 15-Apr-09 10:00
 Extraction Date: 15-Apr-09
 Analysis Date: 21-Apr-09 9:27

Sample Information

Report Basis: Dry Weight
 Matrix: Soil
 Weight / Volume: 13.58 Grams
 Solids / Lipids: 84.0 %
 Original pH : NA
 Batch ID: WG17079

Filename: a20apr09a_2-9
 Retchk: a20apr09a-15
 Begin ConCal: a20apr09a-15
 Initial Cal: m1613-100708a

Method 1613
HZBS0084S001
 General Engineering Labs

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
¹³ C ₁₂ -2,3,7,8-TCDD	2	1.77	88.5	31:04	0.78	
¹³ C ₁₂ -1,2,3,7,8-PeCDD	2	1.93	96.3	33:59	1.58	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDD	2	1.77	88.4	36:33	1.25	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDD	2	1.70	85.0	36:38	1.26	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDD	2	1.90	94.9	39:54	1.05	
¹³ C ₁₂ -OCDD	4.00	3.98	99.4	44:08	0.90	
¹³ C ₁₂ -2,3,7,8-TCDF	2	1.76	87.9	30:16	0.79	
¹³ C ₁₂ -1,2,3,7,8-PeCDF	2	1.91	95.6	33:12	1.59	
¹³ C ₁₂ -2,3,4,7,8-PeCDF	2	1.87	93.5	33:48	1.58	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDF	2	1.68	83.8	35:51	0.52	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDF	2	1.65	82.6	35:57	0.53	
¹³ C ₁₂ -2,3,4,6,7,8-HxCDF	2	1.69	84.6	36:26	0.53	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDF	2	1.74	87.2	37:11	0.53	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDF	2	1.74	87.1	38:40	0.45	
¹³ C ₁₂ -1,2,3,4,7,8,9-HpCDF	2	1.86	93.2	40:33	0.46	
Cleanup Standards						
³⁷ Cl ₄ -2,3,7,8-TCDD	0.400	0.368	92.0	31:05	-	
Injection Standards						
¹³ C ₁₂ -1,2,3,4-TCDD	2.00			30:27	0.79	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDD	2.00			36:52	1.25	

Client Information		Sample Information	
Project Name:	SSFL 227874 H	Report Basis:	Dry Weight
Sample ID:	HZBS0084S001	Matrix:	Soil
		Weight / Volume:	13.58 Grams
		Solids / Lipids:	84.0 %
		Original pH :	NA
		Batch ID:	WG17079
Laboratory Information		Filename:	a20apr09a_2-9
Project ID:	G341-577	Retchk:	a20apr09a-15
Sample ID:	G341-577-13C	Begin ConCal:	a20apr09a-15
Collection Date/Time:	25-Feb-09 08:40	Initial Cal:	m1613-100708a
Receipt Date:	15-Apr-09 10:00		
Extraction Date:	15-Apr-09		
Analysis Date:	21-Apr-09 9:27		
Analyzed by:	<u>DS</u>	Reviewed by:	<u>TM</u>
Date:	<u>4-23-09</u>	Date:	<u>4-23-09</u>



March 05, 2010

Ms. Elizabeth Wessling
MECx, LLC
3061 West 92nd Ave #10-D
Westminster, Colorado 80031

Re: SSFL
Project Number: 1891614.050104
Project Name: ISRA Sampling, Feb 2009
Work Order: 228818
SDG: 228818H

Dear Ms. Elizabeth Wessling,

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on February 25, 2009 and February 26, 2009. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4426.

Sincerely,

Jacqueline Trudell
Project Manager

Purchase Order: 1891614.050104
Chain of Custody: MWHAL20090224_00 and MWHAL20090225_00
Enclosures

Metals Analysis

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 228818H

CONTRACT: SSFL00142

METHOD TYPE: SW846

SAMPLE ID: 228818003

BASIS: Dry Weight

DATE COLLECTED 25-FEB-09

CLIENT ID: HZBS0081S001

LEVEL: Low

DATE RECEIVED 26-FEB-09

MATRIX: SOIL

%SOLIDS: 87

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-50-8	Copper	14.6	mg/kg	*EN	0.046	0.23	0.2	2	MS	BAJ	05/07/09 12:23	090507-1	863181
7439-92-1	Lead	12.4	mg/kg		0.115	0.46	0.4	2	MS	BAJ	05/07/09 12:23	090507-1	863181

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
863181	863180	SW846 3050B	0.503	g	50	mL	05/04/09	AXG2

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 228818H

CONTRACT: SSFL00142

METHOD TYPE: SW846

SAMPLE ID: 228818004

BASIS: Dry Weight

DATE COLLECTED 25-FEB-09

CLIENT ID: HZBS0082S002

LEVEL: Low

DATE RECEIVED 26-FEB-09

MATRIX: SOIL

%SOLIDS: 92.3

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-50-8	Copper	7.34	mg/kg	*EN	0.0413	0.206	0.2	2	MS	BAJ	05/07/09 12:32	090507-1	863181
7439-92-1	Lead	6.53	mg/kg		0.103	0.413	0.4	2	MS	BAJ	05/07/09 12:32	090507-1	863181

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
863181	863180	SW846 3050B	0.525	g	50	mL	05/04/09	AXG2

Subcontract Data

Dioxins

Method 1613
HZBS0064S001
 General Engineering Labs

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	Adj. RL (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8-TCDD	ND	0.473	0.876			
1,2,3,7,8-PeCDD	ND	0.389	4.38			
1,2,3,4,7,8-HxCDD	0.866	0.670	4.38	36:25	1.26	AQ
1,2,3,6,7,8-HxCDD	2.07	0.647	4.38	36:30	1.38	AQ
1,2,3,7,8,9-HxCDD	1.32	0.663	4.38	36:45	1.36	AQ
1,2,3,4,6,7,8-HpCDD	76.6	1.76	4.38	39:50	1.04	Q
OCDD	808	2.38	8.76	44:12	0.90	Q
2,3,7,8-TCDF	0.832	0.383	0.876	29:48	0.82	A
1,2,3,7,8-PeCDF	ND	0.261	4.38			
2,3,4,7,8-PeCDF	0.673	0.278	4.38	33:36	1.57	AQ
1,2,3,4,7,8-HxCDF	0.703	0.435	4.38	35:43	1.31	A
1,2,3,6,7,8-HxCDF	ND	0.481	4.38			Q
2,3,4,6,7,8-HxCDF	0.577	0.496	4.38	36:18	1.31	A
1,2,3,7,8,9-HxCDF	ND	0.631	4.38			Q
1,2,3,4,6,7,8-HpCDF	8.55	0.694	4.38	38:38	1.08	Q
1,2,3,4,7,8,9-HpCDF	ND	1.05	4.38			Q
OCDF	19.6	1.96	8.76	44:27	0.89	
Total TCDDs	ND	2.14	0.876			
Total PeCDDs	2.29	0.389	4.38			AQ
Total HxCDDs	31.1	0.660	4.38			Q
Total HpCDDs	475	1.76	4.38			Q
Total TCDFs	4.34	0.383	0.876			
Total PeCDFs	6.66	0.269	4.38			Q
Total HxCDFs	15.8	0.502	4.38			Q
Total HpCDFs	30.5	0.852	4.38			Q
WHO-2005 TEQ (ND=0)	1.94					
WHO-2005 TEQ (ND=½)	2.93					

<u>Client Information</u>		<u>Sample Information</u>	
Project Name:	SSFL 228818 H	Report Basis:	Dry Weight
		Matrix:	Soil
Sample ID:	HZBS0064S001	Weight / Volume:	13.17 Grams
		Solids / Lipids:	86.7 %
		Original pH :	NA
		Batch ID:	WG17107
<u>Laboratory Information</u>			
Project ID:	G341-579	Filename:	a12may09b-5
Sample ID:	G341-579-1B	Retchk:	a12may09b-1
Collection Date/Time:	24-Feb-09 10:28	Begin ConCal:	a12may09b-1
Receipt Date:	26-Feb-09 0:00		
Extraction Date:	10-May-09		
Analysis Date:	12-May-09 16:01	Initial Cal:	m1613-100708a

Method 1613
HZBS0064S001
 General Engineering Labs

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
¹³ C ₁₂ -2,3,7,8-TCDD	2	1.72	85.9	30:42	0.79	
¹³ C ₁₂ -1,2,3,7,8-PeCDD	2	1.75	87.7	33:47	1.57	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDD	2	1.85	92.3	36:24	1.27	Q
¹³ C ₁₂ -1,2,3,6,7,8-HxCDD	2	1.84	92.1	36:29	1.26	Q
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDD	2	1.42	71.0	39:49	1.06	Q
¹³ C ₁₂ -OCDD	4.00	1.94	48.6	44:12	0.90	Q
¹³ C ₁₂ -2,3,7,8-TCDF	2	1.74	87.0	29:47	0.80	
¹³ C ₁₂ -1,2,3,7,8-PeCDF	2	1.88	94.0	33:00	1.59	
¹³ C ₁₂ -2,3,4,7,8-PeCDF	2	1.74	87.0	33:36	1.58	Q
¹³ C ₁₂ -1,2,3,4,7,8-HxCDF	2	2.00	100	35:43	0.54	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDF	2	1.74	86.9	35:48	0.50	Q
¹³ C ₁₂ -2,3,4,6,7,8-HxCDF	2	1.74	87.2	36:18	0.53	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDF	2	1.56	77.9	37:02	0.53	Q
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDF	2	1.25	62.5	38:37	0.45	Q
¹³ C ₁₂ -1,2,3,4,7,8,9-HpCDF	2	1.26	62.8	40:26	0.46	Q
Cleanup Standards						
³⁷ Cl ₄ -2,3,7,8-TCDD	0.400	0.374	93.5	30:43	-	
Injection Standards						
¹³ C ₁₂ -1,2,3,4-TCDD	2.00			29:58	0.79	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDD	2.00			36:44	1.26	Q

Client Information		Sample Information	
Project Name:	SSFL 228818 H	Report Basis:	Dry Weight
Sample ID:	HZBS0064S001	Matrix:	Soil
		Weight / Volume:	13.17 Grams
		Solids / Lipids:	86.7 %
		Original pH :	NA
		Batch ID:	WG17107
Laboratory Information			
Project ID:	G341-579	Filename:	a12may09b-5
Sample ID:	G341-579-1B	Retchk:	a12may09b-1
Collection Date/Time:	24-Feb-09 10:28	Begin ConCal:	a12may09b-1
Receipt Date:	26-Feb-09 0:00	Initial Cal:	m1613-100708a
Extraction Date:	10-May-09		
Analysis Date:	12-May-09 16:01		
Analyzed by:	<u>DS</u>	Reviewed by:	<u>TM</u>
Date:	<u>5-13-09</u>	Date:	<u>5-13-09</u>

Form Version:[1613_ed1]Report

Method 1613
HZBS0091S001
 General Engineering Labs

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	Adj. RL (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8-TCDD	ND	0.762	0.857			
1,2,3,7,8-PeCDD	ND	0.289	4.29			
1,2,3,4,7,8-HxCDD	ND	0.568	4.29			EMPC
1,2,3,6,7,8-HxCDD	7.32	0.363	4.29	36:23	1.23	
1,2,3,7,8,9-HxCDD	1.49	0.369	4.29	36:37	1.29	A
1,2,3,4,6,7,8-HpCDD	291	0.583	4.29	39:35	1.05	
OCDD	4620	0.632	8.57	43:45	0.90	EQ
2,3,7,8-TCDF	0.604	0.336	0.857	29:50	0.88	A
1,2,3,7,8-PeCDF	1.52	0.171	4.29	33:00	1.64	A
2,3,4,7,8-PeCDF	2.21	0.182	4.29	33:36	1.62	A
1,2,3,4,7,8-HxCDF	2.17	0.254	4.29	35:37	1.24	A
1,2,3,6,7,8-HxCDF	0.770	0.244	4.29	35:43	1.12	A
2,3,4,6,7,8-HxCDF	1.19	0.248	4.29	36:11	1.23	A
1,2,3,7,8,9-HxCDF	1.25	0.315	4.29	36:56	1.17	AQ
1,2,3,4,6,7,8-HpCDF	19.4	0.251	4.29	38:23	1.07	
1,2,3,4,7,8,9-HpCDF	ND	0.792	4.29			EMPC
OCDF	15.7	0.479	8.57	44:00	0.9	
Total TCDDs	ND	0.762	0.857			
Total PeCDDs	1.47	0.289	4.29			AQ
Total HxCDDs	55.4	0.368	4.29			
Total HpCDDs	1360	0.583	4.29			
Total TCDFs	0.974	0.336	0.857			
Total PeCDFs	23.0	0.177	4.29			Q
Total HxCDFs	72.4	0.263	4.29			
Total HpCDFs	63.8	0.301	4.29			
WHO-2005 TEQ (ND=0)	6.68					
WHO-2005 TEQ (ND=1/2)	7.80					

<u>Client Information</u>		<u>Sample Information</u>	
Project Name:	SSFL 228818 H	Report Basis:	Dry Weight
Sample ID:	HZBS0091S001	Matrix:	Soil
		Weight / Volume:	12.31 Grams
		Solids / Lipids:	94.7 %
		Original pH :	NA
		Batch ID:	WG17107
<u>Laboratory Information</u>			
Project ID:	G341-579	Filename:	a12may09b-6
Sample ID:	G341-579-2B	Retchk:	a12may09b-1
Collection Date/Time:	24-Feb-09 11:13	Begin ConCal:	a12may09b-1
Receipt Date:	01-May-09		
Extraction Date:	10-May-09		
Analysis Date:	12-May-09 16:49	Initial Cal:	m1613-100708a

Method 1613
HZBS0091S001
 General Engineering Labs

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
¹³ C ₁₂ -2,3,7,8-TCDD	2	2.00	100	30:43	0.79	
¹³ C ₁₂ -1,2,3,7,8-PeCDD	2	1.72	85.9	33:46	1.60	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDD	2	1.92	95.8	36:18	1.27	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDD	2	1.75	87.3	36:23	1.26	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDD	2	2.02	101	39:35	1.06	
¹³ C ₁₂ -OCDD	4.00	4.00	100	43:44	0.90	Q
¹³ C ₁₂ -2,3,7,8-TCDF	2	1.92	96.0	29:49	0.78	
¹³ C ₁₂ -1,2,3,7,8-PeCDF	2	1.72	85.8	32:59	1.60	
¹³ C ₁₂ -2,3,4,7,8-PeCDF	2	1.68	83.9	33:35	1.59	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDF	2	1.93	96.3	35:36	0.52	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDF	2	1.72	86.1	35:42	0.53	
¹³ C ₁₂ -2,3,4,6,7,8-HxCDF	2	1.83	91.7	36:11	0.53	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDF	2	1.72	86.1	36:55	0.53	Q
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDF	2	1.85	92.3	38:23	0.46	
¹³ C ₁₂ -1,2,3,4,7,8,9-HpCDF	2	1.94	97.1	40:12	0.46	
Cleanup Standards						
³⁷ Cl ₄ -2,3,7,8-TCDD	0.400	0.429	107	30:44	-	
Injection Standards						
¹³ C ₁₂ -1,2,3,4-TCDD	2.00			29:59	0.80	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDD	2.00			36:37	1.27	

Client Information		Sample Information	
Project Name:	SSFL 228818 H	Report Basis:	Dry Weight
Sample ID:	HZBS0091S001	Matrix:	Soil
		Weight / Volume:	12.31 Grams
		Solids / Lipids:	94.7 %
		Original pH :	NA
		Batch ID:	WG17107
Laboratory Information		Filename:	a12may09b-6
Project ID:	G341-579	Retchk:	a12may09b-1
Sample ID:	G341-579-2B	Begin ConCal:	a12may09b-1
Collection Date/Time:	24-Feb-09 11:13	Initial Cal:	m1613-100708a
Receipt Date:	01-May-09		
Extraction Date:	10-May-09		
Analysis Date:	12-May-09 16:49		
Analyzed by:	<u>DS</u>	Reviewed by:	<u>TM</u>
Date:	<u>5-13-09</u>	Date:	<u>5-13-09</u>

Form Version:[1613_ed1]Report

Method 1613
HZBS0081S001
 General Engineering Labs

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	Adj. RL (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8-TCDD	ND	0.370	0.952			
1,2,3,7,8-PeCDD	ND	0.294	4.76			
1,2,3,4,7,8-HxCDD	ND	0.314	4.76			
1,2,3,6,7,8-HxCDD	0.368	0.325	4.76	36:21	1.29	A
1,2,3,7,8,9-HxCDD	0.381	0.322	4.76	36:36	1.38	A
1,2,3,4,6,7,8-HpCDD	3.33	0.398	4.76	39:33	1.05	A
OCDD	25.1	0.552	9.52	43:40	0.89	
2,3,7,8-TCDF	0.396	0.303	0.952	29:49	0.73	A
1,2,3,7,8-PeCDF	ND	0.244	4.76			
2,3,4,7,8-PeCDF	ND	0.266	4.76			
1,2,3,4,7,8-HxCDF	ND	0.192	4.76			
1,2,3,6,7,8-HxCDF	ND	0.180	4.76			
2,3,4,6,7,8-HxCDF	ND	0.197	4.76			
1,2,3,7,8,9-HxCDF	ND	0.242	4.76			
1,2,3,4,6,7,8-HpCDF	0.836	0.189	4.76	38:22	1.08	A
1,2,3,4,7,8,9-HpCDF	ND	0.296	4.76			
OCDF	1.47	0.431	9.52	43:56	0.88	A
Total TCDDs	ND	1.58	0.952			
Total PeCDDs	ND	0.294	4.76			Q
Total HxCDDs	2.15	0.321	4.76			A
Total HpCDDs	11.3	0.398	4.76			
Total TCDFs	0.709	0.303	0.952			A
Total PeCDFs	1.36	0.255	4.76			AQ
Total HxCDFs	1.58	0.201	4.76			A
Total HpCDFs	1.57	0.236	4.76			A
WHO-2005 TEQ (ND=0)	0.164					
WHO-2005 TEQ (ND=½)	1.03					

<u>Client Information</u>		<u>Sample Information</u>	
Project Name:	SSFL 228818 H	Report Basis:	Dry Weight
Sample ID:	HZBS0081S001	Matrix:	Soil
		Weight / Volume:	12.06 Grams
		Solids / Lipids:	87.1 %
		Original pH :	NA
		Batch ID:	WG17107
<u>Laboratory Information</u>			
Project ID:	G341-579	Filename:	a12may09b-7
Sample ID:	G341-579-3B	Retchk:	a12may09b-1
Collection Date/Time:	25-Feb-09 09:42	Begin ConCal:	a12may09b-1
Receipt Date:	27-Feb-09		
Extraction Date:	10-May-09		
Analysis Date:	12-May-09 17:38	Initial Cal:	m1613-100708a

Method 1613
HZBS0081S001
 General Engineering Labs

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
¹³ C ₁₂ -2,3,7,8-TCDD	2	1.88	93.8	30:42	0.79	
¹³ C ₁₂ -1,2,3,7,8-PeCDD	2	2.14	107	33:46	1.59	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDD	2	1.81	90.3	36:16	1.27	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDD	2	1.75	87.3	36:21	1.24	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDD	2	1.86	93.1	39:32	1.05	
¹³ C ₁₂ -OCDD	4.00	3.53	88.2	43:39	0.90	
¹³ C ₁₂ -2,3,7,8-TCDF	2	1.87	93.5	29:48	0.79	
¹³ C ₁₂ -1,2,3,7,8-PeCDF	2	2.12	106	32:59	1.60	
¹³ C ₁₂ -2,3,4,7,8-PeCDF	2	2.05	102	33:35	1.60	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDF	2	1.75	87.3	35:35	0.52	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDF	2	1.72	86.1	35:41	0.52	
¹³ C ₁₂ -2,3,4,6,7,8-HxCDF	2	1.78	89.2	36:09	0.53	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDF	2	1.77	88.7	36:53	0.53	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDF	2	1.76	88.0	38:21	0.46	
¹³ C ₁₂ -1,2,3,4,7,8,9-HpCDF	2	1.77	88.7	40:10	0.46	
Cleanup Standards						
³⁷ Cl ₄ -2,3,7,8-TCDD	0.400	0.412	103	30:43	-	
Injection Standards						
¹³ C ₁₂ -1,2,3,4-TCDD	2.00			29:58	0.80	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDD	2.00			36:35	1.26	

Client Information		Sample Information	
Project Name:	SSFL 228818 H	Report Basis:	Dry Weight
Sample ID:	HZBS0081S001	Matrix:	Soil
		Weight / Volume:	12.06 Grams
		Solids / Lipids:	87.1 %
		Original pH :	NA
		Batch ID:	WG17107
Laboratory Information		Filename:	a12may09b-7
Project ID:	G341-579	Retchk:	a12may09b-1
Sample ID:	G341-579-3B	Begin ConCal:	a12may09b-1
Collection Date/Time:	25-Feb-09 09:42	Initial Cal:	m1613-100708a
Receipt Date:	27-Feb-09		
Extraction Date:	10-May-09		
Analysis Date:	12-May-09 17:38		
Analyzed by:	<u>DS</u>	Reviewed by:	<u>gm</u>
Date:	<u>5-13-09</u>	Date:	<u>5-13-09</u>

Method 1613

HZBS0082S002

General Engineering Labs

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	Adj. RL (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8-TCDD	ND	0.204	0.861			
1,2,3,7,8-PeCDD	ND	0.165	4.30			
1,2,3,4,7,8-HxCDD	ND	0.258	4.30			
1,2,3,6,7,8-HxCDD	ND	0.255	4.30			
1,2,3,7,8,9-HxCDD	ND	0.258	4.30			
1,2,3,4,6,7,8-HpCDD	1.59	0.353	4.30	39:33	0.99	A
OCDD	14.7	0.431	8.61	43:39	0.89	
2,3,7,8-TCDF	ND	0.181	0.861			
1,2,3,7,8-PeCDF	ND	0.122	4.30			
2,3,4,7,8-PeCDF	ND	0.124	4.30			
1,2,3,4,7,8-HxCDF	ND	0.137	4.30			
1,2,3,6,7,8-HxCDF	ND	0.132	4.30			
2,3,4,6,7,8-HxCDF	ND	0.135	4.30			
1,2,3,7,8,9-HxCDF	ND	0.164	4.30			
1,2,3,4,6,7,8-HpCDF	0.349	0.169	4.30	38:21	0.90	A
1,2,3,4,7,8,9-HpCDF	ND	0.235	4.30			
OCDF	1.81	0.300	8.61	43:55	0.91	A
Total TCDDs	ND	1.13	0.861			
Total PeCDDs	ND	0.165	4.30			
Total HxCDDs	ND	0.257	4.30			
Total HpCDDs	5.20	0.353	4.30			
Total TCDFs	ND	0.181	0.861			
Total PeCDFs	ND	0.0778	4.30			
Total HxCDFs	ND	0.141	4.30			
Total HpCDFs	1.20	0.199	4.30			A
WHO-2005 TEQ (ND=0)	0.0243					
WHO-2005 TEQ (ND=½)	0.588					

Client Information

Project Name: SSFL 228818 H

Sample ID: HZBS0082S002

Laboratory Information

Project ID: G341-579

Sample ID: G341-579-4B

Collection Date/Time: 25-Feb-09 09:08

Receipt Date: 01-May-09

Extraction Date: 10-May-09

Analysis Date: 12-May-09 18:26

Sample Information

Report Basis: Dry Weight

Matrix: Soil

Weight / Volume: 12.67 Grams

Solids / Lipids: 91.7 %

Original pH : NA

Batch ID: WG17107

Filename: a12may09b-8

Retchk: a12may09b-1

Begin ConCal: a12may09b-1

Initial Cal: m1613-100708a

Method 1613
HZBS0082S002
 General Engineering Labs

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
¹³ C ₁₂ -2,3,7,8-TCDD	2	1.82	91.2	30:41	0.79	
¹³ C ₁₂ -1,2,3,7,8-PeCDD	2	2.35	118	33:45	1.59	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDD	2	1.90	95.1	36:16	1.27	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDD	2	1.72	85.9	36:21	1.26	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDD	2	1.78	89.1	39:32	1.06	
¹³ C ₁₂ -OCDD	4.00	3.29	82.4	43:38	0.90	
¹³ C ₁₂ -2,3,7,8-TCDF	2	1.81	90.7	29:47	0.79	
¹³ C ₁₂ -1,2,3,7,8-PeCDF	2	2.33	117	32:59	1.59	
¹³ C ₁₂ -2,3,4,7,8-PeCDF	2	2.29	114	33:34	1.60	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDF	2	1.86	92.8	35:35	0.52	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDF	2	1.76	87.8	35:41	0.53	
¹³ C ₁₂ -2,3,4,6,7,8-HxCDF	2	1.84	92.2	36:09	0.53	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDF	2	1.79	89.6	36:53	0.53	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDF	2	1.70	84.9	38:20	0.46	
¹³ C ₁₂ -1,2,3,4,7,8,9-HpCDF	2	1.73	86.7	40:10	0.46	
Cleanup Standards						
³⁷ Cl ₄ -2,3,7,8-TCDD	0.400	0.391	97.8	30:43	-	
Injection Standards						
¹³ C ₁₂ -1,2,3,4-TCDD	2.00			29:57	0.80	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDD	2.00			36:35	1.25	

Client Information		Sample Information	
Project Name:	SSFL 228818 H	Report Basis:	Dry Weight
Sample ID:	HZBS0082S002	Matrix:	Soil
		Weight / Volume:	12.67 Grams
		Solids / Lipids:	91.7 %
		Original pH :	NA
		Batch ID:	WG17107
Laboratory Information			
Project ID:	G341-579	Filename:	a12may09b-8
Sample ID:	G341-579-4B	Retchk:	a12may09b-1
Collection Date/Time:	25-Feb-09 09:08	Begin ConCal:	a12may09b-1
Receipt Date:	01-May-09		
Extraction Date:	10-May-09		
Analysis Date:	12-May-09 18:26	Initial Cal:	m1613-100708a
Analyzed by:	<u>DS</u>	Reviewed by:	<u>Tm</u>
Date:	<u>5-13-09</u>	Date:	<u>5-13-09</u>



March 05, 2010

Ms. Elizabeth Wessling
MECx, LLC
3061 West 92nd Ave #10-D
Westminster, Colorado 80031

Re: SSFL
Project Number: 18961614.050104 and 18961614.054521
Project Name: ISRA Sampling, Feb 2009
Work Order: 230761
SDG: 230761

Dear Ms. Elizabeth Wessling,

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on February 25, 2009, February 26, 2009 and June 02, 2009. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4406.

Sincerely,

Jacqueline Trudell
Project Manager

Purchase Order: 1891614.050104
Chain of Custody: MWHAL20090224_00, MWHAL20090225_00 and MWHBM20090601_00
Enclosures

GC/MS Volatile Analysis

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 230761
Lab Sample ID: 230761016

Client: SSFL001
Date Collected: 06/01/2009 14:05
Date Received: 06/02/2009 09:15

Project: SSFL00149
Matrix: Water

Client ID: FBQW2231
Batch ID: 872741
Run Date: 06/03/2009 14:42
Data File: 4o311.d
Prep Batch: 872741
Prep Date: 06/03/2009 14:42

Method: SW846 8260B
Analyst: ACJ
Purge Vol: 5 mL
Prep Method: SW846 8260B

Prep Basis: As Received
SOP Ref: GL-OA-E-038
Instrument: VOA4.I
Dilution: 1

CAS No.	Parmname	Qual	Result	Units	MDL/LOD	PQL/LOQ	RDL
75-88-7	2-Chloro-1,1,1-trifluoroethane	U	10.0	ug/L	3.00	10.0	5.00
79-38-9	Chlorotrifluoroethylene	U	10.0	ug/L	3.00	10.0	5.00
75-71-8	Dichlorodifluoromethane	U	1.00	ug/L	0.500	1.00	5.00
74-87-3	Chloromethane	U	1.00	ug/L	0.300	1.00	5.00
75-01-4	Vinyl chloride	U	1.00	ug/L	0.500	1.00	2.00
74-83-9	Bromomethane	U	1.00	ug/L	0.500	1.00	5.00
75-00-3	Chloroethane	U	1.00	ug/L	0.300	1.00	5.00
75-69-4	Trichlorofluoromethane	U	1.00	ug/L	0.310	1.00	5.00
67-64-1	Acetone	U	5.00	ug/L	1.50	5.00	10.0
75-35-4	1,1-Dichloroethene <i>1,1-Dichloroethylene</i>	U	1.00	ug/L	0.300	1.00	5.00
75-09-2	Methylene chloride	U	5.00	ug/L	2.00	5.00	5.00
1634-04-4	Methyl-tert-butyl Ether (MTBE) <i>tert-Butyl methyl ether</i>	U	1.00	ug/L	0.250	1.00	5.00
156-60-5	trans-1,2-Dichloroethene <i>trans-1,2-Dichloroethylene</i>	U	1.00	ug/L	0.300	1.00	2.00
75-34-3	1,1-Dichloroethane	U	1.00	ug/L	0.300	1.00	2.00
78-93-3	2-Butanone (MEK) <i>2-Butanone</i>	U	5.00	ug/L	1.25	5.00	10.0
156-59-2	cis-1,2-Dichloroethene <i>cis-1,2-Dichloroethylene</i>	U	1.00	ug/L	0.300	1.00	2.00
594-20-7	2,2-Dichloropropane	U	1.00	ug/L	0.300	1.00	1.00
67-66-3	Chloroform	J	0.373	ug/L	0.250	1.00	2.00
74-97-5	Bromochloromethane	U	1.00	ug/L	0.360	1.00	5.00
71-55-6	1,1,1-Trichloroethane	U	1.00	ug/L	0.325	1.00	2.00
563-58-6	1,1-Dichloropropene	U	1.00	ug/L	0.250	1.00	2.00
56-23-5	Carbon tetrachloride	U	1.00	ug/L	0.260	1.00	1.00
107-06-2	1,2-Dichloroethane	U	1.00	ug/L	0.250	1.00	1.00
71-43-2	Benzene	U	1.00	ug/L	0.300	1.00	2.00
79-01-6	Trichloroethene <i>Trichloroethylene</i>	U	1.00	ug/L	0.250	1.00	2.00
78-87-5	1,2-Dichloropropane	U	1.00	ug/L	0.250	1.00	2.00
75-27-4	Bromodichloromethane	U	1.00	ug/L	0.250	1.00	2.00
74-95-3	Dibromomethane	U	1.00	ug/L	0.300	1.00	1.00
110-75-8	2-Chloroethyl vinyl ether <i>2-Chloroethylvinyl ether</i>	U	5.00	ug/L	1.50	5.00	5.00
108-10-1	4-Methyl-2-pentanone (MIBK) <i>4-Methyl-2-pentanone</i>	U	5.00	ug/L	1.25	5.00	5.00
10061-01-5	cis-1,3-Dichloropropene <i>cis-1,3-Dichloropropylene</i>	U	1.00	ug/L	0.250	1.00	2.00
108-88-3	Toluene	U	1.00	ug/L	0.250	1.00	2.00

Comments:

J Value is estimated

U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

Volatile
Certificate of Analysis
Sample Summary

SDG Number: 230761
Lab Sample ID: 230761016

Client: SSFL001
Date Collected: 06/01/2009 14:05
Date Received: 06/02/2009 09:15

Project: SSFL00149
Matrix: Water

Client ID: FBQW2231
Batch ID: 872741
Run Date: 06/03/2009 14:42
Data File: 4o311.d
Prep Batch: 872741
Prep Date: 06/03/2009 14:42

Method: SW846 8260B
Analyst: ACJ
Purge Vol: 5 mL
Prep Method: SW846 8260B

Prep Basis: As Received
SOP Ref: GL-OA-E-038
Instrument: VOA4.I
Dilution: 1

CAS No.	Parmname	Qual	Result	Units	MDL/LOD	PQL/LOQ	RDL
10061-02-6	trans-1,3-Dichloropropene <i>trans-1,3-Dichloropropylene</i>	U	1.00	ug/L	0.250	1.00	2.00
79-00-5	1,1,2-Trichloroethane	U	1.00	ug/L	0.250	1.00	2.00
591-78-6	2-Hexanone	U	5.00	ug/L	1.25	5.00	10.0
142-28-9	1,3-Dichloropropane	U	1.00	ug/L	0.250	1.00	2.00
127-18-4	Tetrachloroethene <i>Tetrachloroethylene</i>	U	1.00	ug/L	0.450	1.00	2.00
124-48-1	Dibromochloromethane	U	1.00	ug/L	0.260	1.00	2.00
106-93-4	1,2-Dibromoethane (EDB) <i>1,2-Dibromoethane</i>	U	1.00	ug/L	0.250	1.00	2.00
108-90-7	Chlorobenzene	U	1.00	ug/L	0.250	1.00	2.00
100-41-4	Ethylbenzene	U	1.00	ug/L	0.250	1.00	2.00
179601-23-1	m,p-Xylenes	U	2.00	ug/L	0.430	2.00	2.00
95-47-6	o-Xylene	U	1.00	ug/L	0.250	1.00	2.00
100-42-5	Styrene	U	1.00	ug/L	0.250	1.00	2.00
75-25-2	Bromoform	U	1.00	ug/L	0.250	1.00	5.00
79-34-5	1,1,1,2-Tetrachloroethane	U	1.00	ug/L	0.250	1.00	2.00
96-18-4	1,2,3-Trichloropropane	U	1.00	ug/L	0.300	1.00	1.00
108-86-1	Bromobenzene	U	1.00	ug/L	0.250	1.00	5.00
103-65-1	n-Propylbenzene	U	1.00	ug/L	0.250	1.00	2.00
95-49-8	2-Chlorotoluene	U	1.00	ug/L	0.250	1.00	5.00
98-82-8	Isopropylbenzene	U	1.00	ug/L	0.250	1.00	2.00
108-67-8	1,3,5-Trimethylbenzene	U	1.00	ug/L	0.250	1.00	2.00
106-43-4	4-Chlorotoluene	U	1.00	ug/L	0.250	1.00	5.00
98-06-6	tert-Butylbenzene	U	1.00	ug/L	0.250	1.00	5.00
95-63-6	1,2,4-Trimethylbenzene	U	1.00	ug/L	0.250	1.00	2.00
135-98-8	sec-Butylbenzene	U	1.00	ug/L	0.250	1.00	5.00
99-87-6	p-Isopropyltoluene <i>4-Isopropyltoluene</i>	U	1.00	ug/L	0.250	1.00	2.00
541-73-1	1,3-Dichlorobenzene	U	1.00	ug/L	0.250	1.00	2.00
106-46-7	1,4-Dichlorobenzene	U	1.00	ug/L	0.250	1.00	2.00
104-51-8	n-Butylbenzene	U	1.00	ug/L	0.250	1.00	5.00
96-12-8	1,2-Dibromo-3-chloropropane	U	1.00	ug/L	0.500	1.00	5.00
87-68-3	Hexachlorobutadiene	U	1.00	ug/L	0.440	1.00	5.00
87-61-6	1,2,3-Trichlorobenzene	U	1.00	ug/L	0.332	1.00	5.00
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane <i>Trichlorotrifluoroethane</i>	U	5.00	ug/L	1.00	5.00	5.00

Comments:

J Value is estimated

U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

**Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 230761
Lab Sample ID: 230761016

Client: SSFL001
Date Collected: 06/01/2009 14:05
Date Received: 06/02/2009 09:15

Project: SSFL00149
Matrix: Water

Client ID: FBQW2231
Batch ID: 872741
Run Date: 06/03/2009 14:42
Data File: 4o311.d
Prep Batch: 872741
Prep Date: 06/03/2009 14:42

Method: SW846 8260B
Analyst: ACJ
Purge Vol: 5 mL
Prep Method: SW846 8260B

Prep Basis: As Received
SOP Ref: GL-OA-E-038
Instrument: VOA4.I
Dilution: 1

CAS No.	Parmname	Qual	Result	Units	MDL/LOD	PQL/LOQ	RDL
630-20-6	1,1,1,2-Tetrachloroethane	U	1.00	ug/L	0.300	1.00	1.00
120-82-1	1,2,4-Trichlorobenzene	U	1.00	ug/L	0.300	1.00	5.00
95-50-1	1,2-Dichlorobenzene	U	1.00	ug/L	0.250	1.00	2.00

Surrogate/Tracer recovery	Result	Nominal	Units	Recovery%	Acceptable Limits
1,2-Dichloroethane-d4	49.0	50.0	ug/L	98.0	(59%–130%)
Bromofluorobenzene	52.4	50.0	ug/L	105	(71%–126%)
Toluene-d8	52.4	50.0	ug/L	105	(76%–129%)

Comments:

J Value is estimated

U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

GC/MS Semivolatile Analysis

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: 230761
Lab Sample ID: 230761016

Client: SSFL001
Date Collected: 06/01/2009 14:05
Date Received: 06/02/2009 09:15

Project: SSFL00149
Matrix: Water

Client ID: FBQW2231
Batch ID: 872346
Run Date: 06/04/2009 12:07
Data File: s3f0411.d
Prep Batch: 872345
Prep Date: 06/03/2009 21:05

Method: SW846 8270C Low Level
Analyst: JLD1
Inj. Vol: .5 uL
Prep Method: SW846 3510C
Aliquot: 1060 mL

Prep Basis: As Received
SOP Ref: GL-OA-E-009
Instrument: MSD3.I
Dilution: 1
Prep SOP Ref: GL-OA-E-013
Final Volume: .5 mL

CAS No.	Parmname	Qual	Result	Units	MDL/LOD	PQL/LOQ	RDL
62-75-9	n-Nitrosodimethylamine <i>N-Methyl-N-nitrosomethylamine</i>	U	0.472	ug/L	0.0943	0.472	10.0
83-32-9	Acenaphthene	U	0.472	ug/L	0.146	0.472	10.0
129-00-0	Pyrene	U	0.472	ug/L	0.142	0.472	10.0
91-20-3	Naphthalene	U	0.472	ug/L	0.142	0.472	10.0
91-57-6	2-Methylnaphthalene	U	0.472	ug/L	0.142	0.472	10.0
90-12-0	1-Methylnaphthalene	U	0.472	ug/L	0.142	0.472	10.0
131-11-3	Dimethylphthalate	U	0.472	ug/L	0.142	0.472	10.0
208-96-8	Acenaphthylene	U	0.472	ug/L	0.0943	0.472	10.0
84-66-2	Diethylphthalate	U	0.472	ug/L	0.142	0.472	10.0
86-73-7	Fluorene	U	0.472	ug/L	0.0943	0.472	10.0
85-01-8	Phenanthrene	U	0.472	ug/L	0.0943	0.472	10.0
120-12-7	Anthracene	U	0.472	ug/L	0.0943	0.472	10.0
84-74-2	Di-n-butylphthalate	U	0.472	ug/L	0.142	0.472	10.0
206-44-0	Fluoranthene	U	0.472	ug/L	0.0943	0.472	10.0
85-68-7	Butyl benzyl phthalate <i>Butylbenzylphthalate</i>	U	0.472	ug/L	0.142	0.472	10.0
56-55-3	Benzo(a)anthracene	U	0.472	ug/L	0.0943	0.472	10.0
218-01-9	Chrysene	U	0.472	ug/L	0.0943	0.472	10.0
117-81-7	bis(2-Ethylhexyl)phthalate	BJ	0.287	ug/L	0.142	0.472	10.0
117-84-0	Di-n-octyl-phthalate <i>Di-n-octylphthalate</i>	U	0.472	ug/L	0.142	0.472	10.0
205-99-2	Benzo(b)fluoranthene	U	0.472	ug/L	0.0943	0.472	10.0
207-08-9	Benzo(k)fluoranthene	U	0.472	ug/L	0.0943	0.472	10.0
50-32-8	Benzo(a)pyrene	U	0.472	ug/L	0.0943	0.472	10.0
193-39-5	Indeno(1,2,3-cd)pyrene	U	0.472	ug/L	0.0943	0.472	10.0
53-70-3	Dibenzo(a,h)anthracene	U	0.472	ug/L	0.0943	0.472	20.0
191-24-2	Benzo(ghi)perylene	U	0.472	ug/L	0.0943	0.472	10.0

Surrogate/Tracer recovery	Result	Nominal	Units	Recovery%	Acceptable Limits
2-Fluorobiphenyl	15.1	23.6	ug/L	64.2	(35%–100%)
Nitrobenzene-d5	15.9	23.6	ug/L	67.5	(40%–112%)
p-Terphenyl-d14	16.4	23.6	ug/L	69.3	(46%–130%)
2,4,6-Tribromophenol	32.5	47.2	ug/L	69.0	(39%–115%)
2-Fluorophenol	16.1	47.2	ug/L	34.2	(25%–92%)
Phenol-d5	10.4	47.2	ug/L	22.0	(15%–73%)

Comments:

- B** For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
J Value is estimated
U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

**GC
SEMIVOLATILE
DRO
ANALYSIS**

**Flame Ionization Detector
Certificate of Analysis
Sample Summary**

SDG Number: 230761
Lab Sample ID: 230761016

Client: SSFL001
Date Collected: 06/01/2009 14:05
Date Received: 06/02/2009 09:15

Project: SSFL00149
Matrix: Water

Client ID: FBQW2231
Batch ID: 874288
Run Date: 06/12/2009 19:25
Data File: 017f1701.d
Prep Batch: 874286
Prep Date: 06/08/2009 16:23

Method: SW846 8015B EFH
Analyst: KXR2
Inj. Vol: 1 uL
Prep Method: SW846 3510C
Aliquot: 1060 mL

Prep Basis: As Received
SOP Ref: GL-OA-E-003
Instrument: FID7.1
Dilution: 1
Prep SOP Ref: GL-OA-E-013
Final Volume: 1 mL

CAS No.	Parmname	Qual	Result	Units	MDL/LOD	PQL/LOQ	RDL
BFH (>C11 - C14)	BFH (>C11 - C14)	U	94.3	ug/L	31.1	94.3	100
BFH (>C14 - C20)	BFH (>C14 - C20)	U	94.3	ug/L	31.1	94.3	100
BFH (>C20 - C30)	BFH (>C20 - C30)	U	94.3	ug/L	31.1	94.3	100
BFH (C8 - C11)	BFH (C8 - C11)	U	94.3	ug/L	31.1	94.3	100

Surrogate/Tracer recovery	Result	Nominal	Units	Recovery%	Acceptable Limits
5-alpha-Androstane	30.6	47.2	ug/L	64.9	(35%-103%)

Comments:

U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

GC
SEMIVOLATILE
PCB
ANALYSIS

**PCB
Certificate of Analysis
Sample Summary**

SDG Number: 230761
Lab Sample ID: 230761016

Client: SSFL001
Date Collected: 06/01/2009 14:05
Date Received: 06/02/2009 09:15

Project: SSFL00149
Matrix: Water

Client ID: FBQW2231
Batch ID: 872232
Run Date: 06/04/2009 09:47
Data File: Dual Column
Prep Batch: 872231
Prep Date: 06/03/2009 20:35

Method: SW846 8082
Analyst: JAOC
Inj. Vol: 1 uL
Prep Method: SW846 3510C
Aliquot: 1060 mL

Prep Basis: As Received
SOP Ref: GL-OA-E-040
Instrument: ECD8A.I
Dilution: 1
Prep SOP Ref: GL-OA-E-013
Final Volume: 1 mL

CAS No.	Parmname	Qual	Result	Units	MDL/LOD	PQL/LOQ	RDL	Data File
12674-11-2	Aroclor-1016	U	0.0943	ug/L	0.0314	0.0943	0.100	016f1601.d
11104-28-2	Aroclor-1221	U	0.0943	ug/L	0.0314	0.0943	0.200	016f1601.d
11141-16-5	Aroclor-1232	U	0.0943	ug/L	0.0314	0.0943	0.100	016f1601.d
53469-21-9	Aroclor-1242	U	0.0943	ug/L	0.0314	0.0943	0.100	016f1601.d
12672-29-6	Aroclor-1248	U	0.0943	ug/L	0.0314	0.0943	0.100	016f1601.d
11097-69-1	Aroclor-1254	U	0.0943	ug/L	0.0314	0.0943	0.100	016f1601.d
11096-82-5	Aroclor-1260	U	0.0943	ug/L	0.0314	0.0943	0.100	016f1601.d

Surrogate/Tracer recovery	Result	Nominal	Units	Recovery%	Acceptable Limits	Data File
4cmx	0.105	0.189	ug/L	55.8	(29%–103%)	016b1601.d
Decachlorobiphenyl	0.0885	0.189	ug/L	46.9	(34%–118%)	016b1601.d

Comments:

U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

Metals Analysis

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 230761

CONTRACT: SSFL00149

METHOD TYPE: SW846

SAMPLE ID: 230761014

BASIS: Dry Weight

DATE COLLECTED 01-JUN-09

CLIENT ID: HZBS0124S001

LEVEL: Low

DATE RECEIVED 02-JUN-09

MATRIX: SOIL

%SOLIDS: 98.7

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-50-8	Copper	8.91	mg/kg	E	0.04	0.2	0.2	2	MS	BAJ	06/10/09 04:19	090609-4	872389
7439-92-1	Lead	12.7	mg/kg		0.0999	0.4	0.4	2	MS	BAJ	06/10/09 04:19	090609-4	872389

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
872389	872388	SW846 3050B	0.507	g	50	mL	06/08/09	AXG2

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 230761

CONTRACT: SSFL00149

METHOD TYPE: SW846

SAMPLE ID: 230761016

BASIS: As Received

DATE COLLECTED 01-JUN-09

CLIENT ID: FBQW2231

LEVEL: Low

DATE RECEIVED 02-JUN-09

MATRIX: WATER

%SOLIDS: 0

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	68	ug/L	U	68	200	200	1	P	HSC	06/04/09 09:12	060409-1	872331
7440-38-2	Arsenic	1.5	ug/L	U	1.5	5	5	1	MS	BAJ	06/04/09 03:55	090603-2	872377
7440-41-7	Beryllium	0.10	ug/L	U	0.1	0.5	0.5	1	MS	BAJ	06/04/09 03:55	090603-2	872377
7440-43-9	Cadmium	0.110	ug/L	U	0.11	1	1	1	MS	BAJ	06/04/09 03:55	090603-2	872377
7440-50-8	Copper	0.362	ug/L	J	0.3	1	1	1	MS	BAJ	06/04/09 03:55	090603-2	872377
7439-92-1	Lead	0.50	ug/L	U	0.5	2	2	1	MS	BAJ	06/04/09 03:55	090603-2	872377
7439-97-6	Mercury	0.067	ug/L	U	0.067	0.2	0.2	1	AV	JXL1	06/04/09 10:57	060409W1-10	872484
7782-49-2	Selenium	1	ug/L	U	1	5	5	1	MS	BAJ	06/04/09 03:55	090603-2	872377
7440-66-6	Zinc	2.6	ug/L	U	2.6	10	10	1	MS	BAJ	06/04/09 03:55	090603-2	872377

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
872331	872329	SW846 3005A	50	mL	50	mL	06/03/09	AXG2
872377	872376	SW846 3005A	50	mL	50	mL	06/03/09	AXG2
872484	872483	SW846 7470A Prep	20	mL	20	mL	06/03/09	TXB3

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 230761

CONTRACT: SSFL00149

METHOD TYPE: SW846

SAMPLE ID: 230761017

BASIS: As Received

DATE COLLECTED 01-JUN-09

CLIENT ID: EBQW2215

LEVEL: Low

DATE RECEIVED 02-JUN-09

MATRIX: WATER

%SOLIDS: 0

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-50-8	Copper	0.453	ug/L	J	0.3	1	1	1	MS	BAJ	06/04/09 04:08	090603-2	872377
7439-92-1	Lead	0.50	ug/L	U	0.5	2	2	1	MS	BAJ	06/04/09 04:08	090603-2	872377

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
872377	872376	SW846 3005A	50	mL	50	mL	06/03/09	AXG2

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 230761

CONTRACT: SSFL00149

METHOD TYPE: SW846

SAMPLE ID: 230761020 **BASIS:** Dry Weight **DATE COLLECTED** 25-FEB-09
CLIENT ID: HZBS0083S001 **LEVEL:** Low **DATE RECEIVED** 26-FEB-09
MATRIX: SOIL **%SOLIDS:** 89

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-50-8	Copper	7.06	mg/kg	E	0.0436	0.218	0.2	2	MS	BAJ	06/09/09 23:06	090609-3	874296
7439-92-1	Lead	30.5	mg/kg		0.546	2.18	0.4	10	MS	BAJ	06/11/09 05:19	090610-9	874296

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
874296	874295	SW846 3050B	0.516	g	50	mL	06/09/09	AXG2

Subcontract Data

Dioxins

Method 1613
HZBS0123D001
 General Engineering Labs

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	Adj. RL (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8-TCDD	ND	0.0493	0.833			
1,2,3,7,8-PeCDD	ND	0.157	4.16			
1,2,3,4,7,8-HxCDD	ND	0.122	4.16			
1,2,3,6,7,8-HxCDD	0.217	0.115	4.16	36:21	1.39	A
1,2,3,7,8,9-HxCDD	0.207	0.119	4.16	36:36	1.22	A
1,2,3,4,6,7,8-HpCDD	2.79	0.179	4.16	39:35	1.01	A
OCDD	22.6	0.365	8.33	43:44	0.90	
2,3,7,8-TCDF	0.378	0.0931	0.833	29:48	0.75	A
1,2,3,7,8-PeCDF	0.127	0.0834	4.16	32:58	1.57	A
2,3,4,7,8-PeCDF	0.222	0.0843	4.16	33:34	1.58	A
1,2,3,4,7,8-HxCDF	0.127	0.0923	4.16	35:36	1.35	A
1,2,3,6,7,8-HxCDF	0.102	0.0893	4.16	35:41	1.18	A
2,3,4,6,7,8-HxCDF	ND	0.147	4.16			EMPC
1,2,3,7,8,9-HxCDF	ND	0.126	4.16			
1,2,3,4,6,7,8-HpCDF	0.733	0.0921	4.16	38:23	1.07	A
1,2,3,4,7,8,9-HpCDF	ND	0.140	4.16			
OCDF	1.36	0.319	8.33	44:00	0.94	A
Total TCDDs	ND	1.92	0.833			
Total PeCDDs	0.238	0.157	4.16			A
Total HxCDDs	1.27	0.118	4.16			A
Total HpCDDs	9.86	0.179	4.16			
Total TCDFs	1.42	0.0931	0.833			
Total PeCDFs	2.75	0.0838	4.16			A
Total HxCDFs	1.72	0.0981	4.16			A
Total HpCDFs	1.38	0.113	4.16			A
WHO-2005 TEQ (ND=0)	0.216					
WHO-2005 TEQ (ND=1/2)	0.463					

<u>Client Information</u>		<u>Sample Information</u>	
Project Name:	SSFL 230761	Report Basis:	Dry Weight
Sample ID:	HZBS0123D001	Matrix:	Soil
		Weight / Volume:	12.33 Grams
		Solids / Lipids:	97.4 %
		Original pH :	NA
		Batch ID:	WG17137
<u>Laboratory Information</u>			
Project ID:	G341-583	Filename:	a08jun09b_7-10
Sample ID:	G341-583-1B	Retchk:	a08jun09b_6-14
Collection Date:	01-Jun-09	Begin ConCal:	a08jun09b_6-14
Receipt Date:	03-Jun-09 10:05	Initial Cal:	m1613-100708a
Extraction Date:	07-Jun-09		
Analysis Date:	11-Jun-09 7:49		

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HZBS0123D001
 General Engineering Labs

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
¹³ C ₁₂ -2,3,7,8-TCDD	2	1.83	91.3	30:41	0.77	
¹³ C ₁₂ -1,2,3,7,8-PeCDD	2	2.07	104	33:45	1.61	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDD	2	1.80	90.0	36:16	1.26	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDD	2	1.88	94.2	36:21	1.28	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDD	2	1.76	87.8	39:34	1.07	
¹³ C ₁₂ -OCDD	4.00	2.58	64.5	43:43	0.90	
¹³ C ₁₂ -2,3,7,8-TCDF	2	1.86	93.2	29:47	0.79	
¹³ C ₁₂ -1,2,3,7,8-PeCDF	2	2.14	107	32:58	1.63	
¹³ C ₁₂ -2,3,4,7,8-PeCDF	2	2.10	105	33:34	1.60	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDF	2	1.84	92.1	35:35	0.52	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDF	2	1.91	95.7	35:41	0.52	
¹³ C ₁₂ -2,3,4,6,7,8-HxCDF	2	1.90	95.2	36:10	0.52	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDF	2	1.81	90.5	36:54	0.52	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDF	2	1.80	90.2	38:22	0.44	
¹³ C ₁₂ -1,2,3,4,7,8,9-HpCDF	2	1.75	87.6	40:12	0.44	
Cleanup Standards						
³⁷ Cl ₄ -2,3,7,8-TCDD	0.400	0.399	99.8	30:43	-	
Injection Standards						
¹³ C ₁₂ -1,2,3,4-TCDD	2.00			29:57	0.79	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDD	2.00			36:36	1.27	

Client Information		Sample Information	
Project Name:	SSFL 230761	Report Basis:	Dry Weight
Sample ID:	HZBS0123D001	Matrix:	Soil
		Weight / Volume:	12.33 Grams
		Solids / Lipids:	97.4 %
		Original pH :	NA
		Batch ID:	WG17137
Laboratory Information		Filename:	a08jun09b_7-10
Project ID:	G341-583	Retchk:	a08jun09b_6-14
Sample ID:	G341-583-1B	Begin ConCal:	a08jun09b_6-14
Collection Date:	01-Jun-09	Initial Cal:	m1613-100708a
Receipt Date:	03-Jun-09 10:05		
Extraction Date:	07-Jun-09		
Analysis Date:	11-Jun-09 7:49		
Analyzed by:	<u>DS</u>	Reviewed by:	<u>jm</u>
Date:	<u>6-16-09</u>	Date:	<u>6-16-09</u>

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Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	Adj. RL (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8-TCDD	ND	0.128	0.867			EMPC
1,2,3,7,8-PeCDD	0.481	0.0859	4.34	33:45	1.78	A
1,2,3,4,7,8-HxCDD	1.05	0.134	4.34	36:17	1.14	A
1,2,3,6,7,8-HxCDD	4.89	0.120	4.34	36:22	1.25	
1,2,3,7,8,9-HxCDD	2.37	0.128	4.34	36:36	1.18	A
1,2,3,4,6,7,8-HpCDD	227	0.499	4.34	39:35	1.06	
OCDD	2290	0.214	8.67	43:43	0.89	
2,3,7,8-TCDF	0.392	0.0893	0.867	29:48	0.85	ADPE
1,2,3,7,8-PeCDF	0.444	0.0916	4.34	32:58	1.58	A
2,3,4,7,8-PeCDF	0.760	0.0916	4.34	33:34	1.66	A
1,2,3,4,7,8-HxCDF	1.11	0.176	4.34	35:36	1.29	A
1,2,3,6,7,8-HxCDF	0.590	0.186	4.34	35:42	1.31	A
2,3,4,6,7,8-HxCDF	0.748	0.184	4.34	36:10	1.17	A
1,2,3,7,8,9-HxCDF	0.770	0.259	4.34	36:55	1.35	A
1,2,3,4,6,7,8-HpCDF	18.7	0.176	4.34	38:23	1.03	
1,2,3,4,7,8,9-HpCDF	0.805	0.282	4.34	40:12	1.03	A
OCDF	55.8	0.155	8.67	43:59	0.9	
Total TCDDs	ND	2.29	0.867			
Total PeCDDs	3.71	0.0859	4.34			A
Total HxCDDs	44.1	0.127	4.34			
Total HpCDDs	877	0.499	4.34			
Total TCDFs	2.04	0.0893	0.867			DPE
Total PeCDFs	7.18	0.0916	4.34			DPE
Total HxCDFs	34.2	0.198	4.34			
Total HpCDFs	69.5	0.221	4.34			
WHO-2005 TEQ (ND=0)	5.08					
WHO-2005 TEQ (ND=½)	5.21					

<u>Client Information</u>		<u>Sample Information</u>	
Project Name:	SSFL 230761	Report Basis:	Dry Weight
Sample ID:	HZBS0110S001	Matrix:	Soil
		Weight / Volume:	12.29 Grams
		Solids / Lipids:	93.8 %
		Original pH :	NA
		Batch ID:	WG17137
<u>Laboratory Information</u>			
Project ID:	G341-583	Filename:	a08jun09b_7-11
Sample ID:	G341-583-2B	Retchk:	a08jun09b_6-14
Collection Date/Time:	01-Jun-09 08:00	Begin ConCal:	a08jun09b_6-14
Receipt Date:	03-Jun-09 10:05		
Extraction Date:	07-Jun-09		
Analysis Date:	11-Jun-09 8:37	Initial Cal:	m1613-100708a

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HZBS0110S001
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Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
¹³ C ₁₂ -2,3,7,8-TCDD	2	1.60	79.8	30:41	0.78	
¹³ C ₁₂ -1,2,3,7,8-PeCDD	2	1.88	93.8	33:45	1.62	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDD	2	1.65	82.3	36:16	1.27	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDD	2	1.67	83.5	36:21	1.27	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDD	2	1.59	79.3	39:34	1.07	
¹³ C ₁₂ -OCDD	4.00	2.68	67.0	43:42	0.89	
¹³ C ₁₂ -2,3,7,8-TCDF	2	1.67	83.3	29:47	0.79	
¹³ C ₁₂ -1,2,3,7,8-PeCDF	2	1.96	98.0	32:58	1.59	
¹³ C ₁₂ -2,3,4,7,8-PeCDF	2	1.85	92.4	33:34	1.62	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDF	2	1.66	83.2	35:35	0.51	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDF	2	1.68	83.9	35:41	0.52	
¹³ C ₁₂ -2,3,4,6,7,8-HxCDF	2	1.69	84.6	36:09	0.52	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDF	2	1.62	81.2	36:54	0.52	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDF	2	1.63	81.4	38:22	0.44	
¹³ C ₁₂ -1,2,3,4,7,8,9-HpCDF	2	1.58	78.8	40:11	0.44	
Cleanup Standards						
³⁷ Cl ₄ -2,3,7,8-TCDD	0.400	0.383	95.8	30:42	-	
Injection Standards						
¹³ C ₁₂ -1,2,3,4-TCDD	2.00			29:56	0.78	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDD	2.00			36:36	1.25	

Client Information		Sample Information	
Project Name:	SSFL 230761	Report Basis:	Dry Weight
Sample ID:	HZBS0110S001	Matrix:	Soil
		Weight / Volume:	12.29 Grams
		Solids / Lipids:	93.8 %
		Original pH :	NA
		Batch ID:	WG17137
Laboratory Information			
Project ID:	G341-583	Filename:	a08jun09b_7-11
Sample ID:	G341-583-2B	Retchk:	a08jun09b_6-14
Collection Date/Time:	01-Jun-09 08:00	Begin ConCal:	a08jun09b_6-14
Receipt Date:	03-Jun-09 10:05		
Extraction Date:	07-Jun-09		
Analysis Date:	11-Jun-09 8:37	Initial Cal:	m1613-100708a
Analyzed by:	DS	Reviewed by:	JM
Date:	6-16-09	Date:	6-16-09

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Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	Adj. RL (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8-TCDD	ND	0.0672	0.861			EMPC
1,2,3,7,8-PeCDD	0.262	0.0313	4.31	33:45	1.68	A
1,2,3,4,7,8-HxCDD	ND	0.444	4.31			EMPC
1,2,3,6,7,8-HxCDD	1.73	0.0894	4.31	36:22	1.25	A
1,2,3,7,8,9-HxCDD	1.02	0.0946	4.31	36:36	1.33	A
1,2,3,4,6,7,8-HpCDD	55.7	0.231	4.31	39:34	1.04	
OCDD	1080	0.0551	8.61	43:43	0.89	
2,3,7,8-TCDF	0.277	0.0186	0.861	29:47	0.74	A
1,2,3,7,8-PeCDF	0.122	0.0598	4.31	32:58	1.54	A
2,3,4,7,8-PeCDF	0.251	0.0641	4.31	33:35	1.65	A
1,2,3,4,7,8-HxCDF	0.382	0.0780	4.31	35:36	1.23	A
1,2,3,6,7,8-HxCDF	ND	0.215	4.31			EMPC
2,3,4,6,7,8-HxCDF	0.260	0.0816	4.31	36:10	1.36	A
1,2,3,7,8,9-HxCDF	ND	0.229	4.31			EMPC
1,2,3,4,6,7,8-HpCDF	5.38	0.0872	4.31	38:22	1.06	
1,2,3,4,7,8,9-HpCDF	0.412	0.147	4.31	40:13	1.06	A
OCDF	16.0	0.0305	8.61	43:59	0.88	
Total TCDDs	ND	1.90	0.861			
Total PeCDDs	1.15	0.0313	4.31			A
Total HxCDDs	14.3	0.0942	4.31			
Total HpCDDs	311	0.231	4.31			
Total TCDFs	0.951	0.0186	0.861			
Total PeCDFs	2.62	0.0618	4.31			DPE
Total HxCDFs	8.29	0.0870	4.31			ADPE
Total HpCDFs	18.6	0.114	4.31			
WHO-2005 TEQ (ND=0)	1.65					
WHO-2005 TEQ (ND=½)	1.81					

<u>Client Information</u>		<u>Sample Information</u>	
Project Name:	SSFL 230761	Report Basis:	Dry Weight
Sample ID:	HZBS0111S001	Matrix:	Soil
		Weight / Volume:	12.43 Grams
		Solids / Lipids:	93.4 %
		Original pH :	NA
		Batch ID:	WG17137
<u>Laboratory Information</u>			
Project ID:	G341-583	Filename:	a08jun09b_8-5
Sample ID:	G341-583-6B	Retchk:	a08jun09b_7-14
Collection Date/Time:	01-Jun-09 08:28	Begin ConCal:	a08jun09b_7-14
Receipt Date:	03-Jun-09 10:05		
Extraction Date:	07-Jun-09		
Analysis Date:	11-Jun-09 15:09	Initial Cal:	m1613-100708a

Method 1613
HZBS0111S001
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Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
¹³ C ₁₂ -2,3,7,8-TCDD	2	1.78	89.0	30:41	0.77	
¹³ C ₁₂ -1,2,3,7,8-PeCDD	2	1.99	99.5	33:45	1.58	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDD	2	1.69	84.6	36:16	1.27	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDD	2	1.82	91.0	36:21	1.26	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDD	2	1.79	89.3	39:34	1.05	
¹³ C ₁₂ -OCDD	4.00	3.24	81.0	43:42	0.90	
¹³ C ₁₂ -2,3,7,8-TCDF	2	1.88	94.0	29:46	0.79	
¹³ C ₁₂ -1,2,3,7,8-PeCDF	2	2.00	100	32:58	1.61	
¹³ C ₁₂ -2,3,4,7,8-PeCDF	2	1.95	97.7	33:34	1.62	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDF	2	1.67	83.7	35:35	0.52	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDF	2	1.73	86.3	35:41	0.52	
¹³ C ₁₂ -2,3,4,6,7,8-HxCDF	2	1.76	87.9	36:09	0.52	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDF	2	1.73	86.5	36:54	0.51	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDF	2	1.73	86.6	38:22	0.44	
¹³ C ₁₂ -1,2,3,4,7,8,9-HpCDF	2	1.72	85.8	40:12	0.44	
Cleanup Standards						
³⁷ Cl ₄ -2,3,7,8-TCDD	0.400	0.382	95.5	30:42	-	
Injection Standards						
¹³ C ₁₂ -1,2,3,4-TCDD	2.00			29:56	0.79	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDD	2.00			36:35	1.26	

Client Information		Sample Information	
Project Name:	SSFL 230761	Report Basis:	Dry Weight
Sample ID:	HZBS0111S001	Matrix:	Soil
		Weight / Volume:	12.43 Grams
		Solids / Lipids:	93.4 %
		Original pH :	NA
		Batch ID:	WG17137
Laboratory Information		Filename:	a08jun09b_8-5
Project ID:	G341-583	Retchk:	a08jun09b_7-14
Sample ID:	G341-583-6B	Begin ConCal:	a08jun09b_7-14
Collection Date/Time:	01-Jun-09 08:28	Initial Cal:	m1613-100708a
Receipt Date:	03-Jun-09 10:05		
Extraction Date:	07-Jun-09		
Analysis Date:	11-Jun-09 15:09		
Analyzed by: <u>DS</u>		Reviewed by: <u>CTM</u>	
Date: <u>6-16-09</u>		Date: <u>6-16-09</u>	

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Method 1613

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General Engineering Labs

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	Adj. RL (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8-TCDD	ND	0.0957	0.920			EMPC
1,2,3,7,8-PeCDD	0.215	0.0458	4.60	33:45	1.41	A
1,2,3,4,7,8-HxCDD	0.171	0.0440	4.60	36:16	1.25	A
1,2,3,6,7,8-HxCDD	1.05	0.0440	4.60	36:22	1.37	A
1,2,3,7,8,9-HxCDD	1.41	0.0443	4.60	36:36	1.22	A
1,2,3,4,6,7,8-HpCDD	11.1	0.0968	4.60	39:34	1.03	
OCDD	147	0.0912	9.20	43:43	0.89	
2,3,7,8-TCDF	0.688	0.0723	0.920	29:47	0.76	A
1,2,3,7,8-PeCDF	ND	0.142	4.60			EMPC
2,3,4,7,8-PeCDF	0.456	0.0804	4.60	33:34	1.59	A
1,2,3,4,7,8-HxCDF	0.235	0.0793	4.60	35:35	1.28	A
1,2,3,6,7,8-HxCDF	ND	0.224	4.60			EMPC
2,3,4,6,7,8-HxCDF	0.217	0.0846	4.60	36:10	1.41	A
1,2,3,7,8,9-HxCDF	0.156	0.107	4.60	36:54	1.42	A
1,2,3,4,6,7,8-HpCDF	1.90	0.0289	4.60	38:22	1.04	A
1,2,3,4,7,8,9-HpCDF	ND	0.120	4.60			EMPC
OCDF	4.28	0.0432	9.20	43:59	0.85	A
Total TCDDs	ND	2.91	0.920			
Total PeCDDs	1.24	0.0458	4.60			A
Total HxCDDs	6.77	0.0441	4.60			
Total HpCDDs	57.5	0.0968	4.60			
Total TCDFs	2.62	0.0723	0.920			DPE
Total PeCDFs	3.36	0.0822	4.60			ADPE
Total HxCDFs	3.64	0.0870	4.60			A
Total HpCDFs	5.15	0.0348	4.60			
WHO-2005 TEQ (ND=0)	0.920					
WHO-2005 TEQ (ND=1/2)	1.04					

<u>Client Information</u>		<u>Sample Information</u>	
Project Name:	SSFL 230761	Report Basis:	Dry Weight
Sample ID:	HZBS0120S001	Matrix:	Soil
		Weight / Volume:	11.79 Grams
		Solids / Lipids:	92.2 %
		Original pH :	NA
		Batch ID:	WG17137
<u>Laboratory Information</u>		Filename:	a08jun09b_8-6
Project ID:	G341-583	Retchk:	a08jun09b_7-14
Sample ID:	G341-583-9B	Begin ConCal:	a08jun09b_7-14
Collection Date/Time:	01-Jun-09 09:03	Initial Cal:	m1613-100708a
Receipt Date:	03-Jun-09 10:05		
Extraction Date:	07-Jun-09		
Analysis Date:	11-Jun-09 15:57		

Method 1613
HZBS0120S001
 General Engineering Labs

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
¹³ C ₁₂ -2,3,7,8-TCDD	2	1.85	92.3	30:41	0.78	
¹³ C ₁₂ -1,2,3,7,8-PeCDD	2	2.05	103	33:45	1.60	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDD	2	1.74	87.2	36:16	1.26	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDD	2	1.79	89.4	36:21	1.29	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDD	2	1.79	89.7	39:34	1.05	
¹³ C ₁₂ -OCDD	4.00	3.06	76.4	43:43	0.89	
¹³ C ₁₂ -2,3,7,8-TCDF	2	1.97	98.5	29:46	0.79	
¹³ C ₁₂ -1,2,3,7,8-PeCDF	2	2.08	104	32:58	1.59	
¹³ C ₁₂ -2,3,4,7,8-PeCDF	2	2.04	102	33:34	1.62	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDF	2	1.70	85.1	35:35	0.51	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDF	2	1.75	87.4	35:41	0.53	
¹³ C ₁₂ -2,3,4,6,7,8-HxCDF	2	1.78	88.9	36:09	0.52	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDF	2	1.77	88.6	36:54	0.52	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDF	2	1.75	87.4	38:22	0.45	
¹³ C ₁₂ -1,2,3,4,7,8,9-HpCDF	2	1.75	87.7	40:12	0.44	
Cleanup Standards						
³⁷ Cl ₄ -2,3,7,8-TCDD	0.400	0.386	96.5	30:42	-	
Injection Standards						
¹³ C ₁₂ -1,2,3,4-TCDD	2.00			29:56	0.78	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDD	2.00			36:35	1.25	

Client Information		Sample Information	
Project Name:	SSFL 230761	Report Basis:	Dry Weight
Sample ID:	HZBS0120S001	Matrix:	Soil
		Weight / Volume:	11.79 Grams
		Solids / Lipids:	92.2 %
		Original pH :	NA
		Batch ID:	WG17137
Laboratory Information		Filename:	a08jun09b_8-6
Project ID:	G341-583	Retchk:	a08jun09b_7-14
Sample ID:	G341-583-9B	Begin ConCal:	a08jun09b_7-14
Collection Date/Time:	01-Jun-09 09:03	Initial Cal:	m1613-100708a
Receipt Date:	03-Jun-09 10:05		
Extraction Date:	07-Jun-09		
Analysis Date:	11-Jun-09 15:57		
Analyzed by: <u>DS</u>		Reviewed by: <u>TM</u>	
Date: <u>6-16-09</u>		Date: <u>6-16-09</u>	

Form Version:[1613_ed1]Report

Method 1613 HZBS0118S001 General Engineering Labs
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Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	Adj. RL (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8-TCDD	ND	0.0798	0.868			EMPC
1,2,3,7,8-PeCDD	0.102	0.0397	4.34	33:45	1.58	A
1,2,3,4,7,8-HxCDD	ND	0.160	4.34			EMPC
1,2,3,6,7,8-HxCDD	0.562	0.0720	4.34	36:22	1.33	A
1,2,3,7,8,9-HxCDD	ND	0.439	4.34			EMPC
1,2,3,4,6,7,8-HpCDD	17.4	0.201	4.34	39:34	1.03	
OCDD	234	0.0574	8.68	43:43	0.88	
2,3,7,8-TCDF	0.309	0.0441	0.868	29:46	0.71	A
1,2,3,7,8-PeCDF	0.130	0.0708	4.34	32:59	1.34	A
2,3,4,7,8-PeCDF	0.278	0.0706	4.34	33:35	1.38	A
1,2,3,4,7,8-HxCDF	0.224	0.0488	4.34	35:35	1.39	A
1,2,3,6,7,8-HxCDF	0.167	0.0463	4.34	35:41	1.30	A
2,3,4,6,7,8-HxCDF	0.207	0.0503	4.34	36:10	1.16	A
1,2,3,7,8,9-HxCDF	0.149	0.0668	4.34	36:54	1.14	A
1,2,3,4,6,7,8-HpCDF	2.04	0.0663	4.34	38:22	1.05	A
1,2,3,4,7,8,9-HpCDF	0.196	0.0991	4.34	40:12	0.97	A
OCDF	5.24	0.0692	8.68	43:59	0.9	A
Total TCDDs	ND	2.41	0.868			
Total PeCDDs	0.262	0.154	4.34			A
Total HxCDDs	5.02	0.0739	4.34			
Total HpCDDs	95.3	0.201	4.34			
Total TCDFs	2.39	0.0441	0.868			DPE
Total PeCDFs	2.86	0.0706	4.34			ADPE
Total HxCDFs	4.10	0.0524	4.34			ADPE
Total HpCDFs	6.47	0.0804	4.34			
WHO-2005 TEQ (ND=0)	0.619					
WHO-2005 TEQ (ND=½)	0.759					

<u>Client Information</u>		<u>Sample Information</u>	
Project Name:	SSFL 230761	Report Basis:	Dry Weight
Sample ID:	HZBS0118S001	Matrix:	Soil
		Weight / Volume:	11.68 Grams
		Solids / Lipids:	98.7 %
		Original pH :	NA
		Batch ID:	WG17137
<u>Laboratory Information</u>			
Project ID:	G341-583	Filename:	a08jun09b_8-7
Sample ID:	G341-583-11B	Retchk:	a08jun09b_7-14
Collection Date/Time:	01-Jun-09 09:26	Begin ConCal:	a08jun09b_7-14
Receipt Date:	03-Jun-09 10:05		
Extraction Date:	07-Jun-09		
Analysis Date:	11-Jun-09 16:46	Initial Cal:	m1613-100708a

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HZBS0118S001
 General Engineering Labs

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
¹³ C ₁₂ -2,3,7,8-TCDD	2	1.79	89.7	30:41	0.78	
¹³ C ₁₂ -1,2,3,7,8-PeCDD	2	1.98	99.2	33:45	1.58	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDD	2	1.70	85.0	36:16	1.26	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDD	2	1.75	87.7	36:21	1.27	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDD	2	1.76	87.9	39:34	1.06	
¹³ C ₁₂ -OCDD	4.00	2.95	73.9	43:42	0.90	
¹³ C ₁₂ -2,3,7,8-TCDF	2	1.88	94.0	29:46	0.80	
¹³ C ₁₂ -1,2,3,7,8-PeCDF	2	2.05	103	32:58	1.63	
¹³ C ₁₂ -2,3,4,7,8-PeCDF	2	1.94	97.1	33:34	1.60	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDF	2	1.71	85.6	35:35	0.52	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDF	2	1.79	89.4	35:41	0.52	
¹³ C ₁₂ -2,3,4,6,7,8-HxCDF	2	1.76	88.0	36:09	0.52	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDF	2	1.74	86.8	36:54	0.51	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDF	2	1.76	88.0	38:22	0.45	
¹³ C ₁₂ -1,2,3,4,7,8,9-HpCDF	2	1.68	84.0	40:12	0.44	
Cleanup Standards						
³⁷ Cl ₄ -2,3,7,8-TCDD	0.400	0.387	96.8	30:42	-	
Injection Standards						
¹³ C ₁₂ -1,2,3,4-TCDD	2.00			29:56	0.78	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDD	2.00			36:35	1.26	

Client Information		Sample Information	
Project Name:	SSFL 230761	Report Basis:	Dry Weight
Sample ID:	HZBS0118S001	Matrix:	Soil
		Weight / Volume:	11.68 Grams
		Solids / Lipids:	98.7 %
		Original pH :	NA
		Batch ID:	WG17137
Laboratory Information			
Project ID:	G341-583	Filename:	a08jun09b_8-7
Sample ID:	G341-583-11B	Retchk:	a08jun09b_7-14
Collection Date/Time:	01-Jun-09 09:26	Begin ConCal:	a08jun09b_7-14
Receipt Date:	03-Jun-09 10:05	Initial Cal:	m1613-100708a
Extraction Date:	07-Jun-09		
Analysis Date:	11-Jun-09 16:46		
Analyzed by: <u>DS</u>		Reviewed by: <u>CM</u>	
Date: <u>6-16-09</u>		Date: <u>6-16-09</u>	

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Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	Adj. RL (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8-TCDD	ND	0.154	0.926			EMPC
1,2,3,7,8-PeCDD	0.398	0.0622	4.63	33:45	1.53	A
1,2,3,4,7,8-HxCDD	0.739	0.129	4.63	36:17	1.07	A
1,2,3,6,7,8-HxCDD	1.80	0.125	4.63	36:22	1.15	A
1,2,3,7,8,9-HxCDD	ND	1.17	4.63			EMPC
1,2,3,4,6,7,8-HpCDD	70.2	0.257	4.63	39:34	1.02	
OCDD	821	0.0539	9.26	43:43	0.89	
2,3,7,8-TCDF	0.504	0.180	0.926	29:46	0.77	A
1,2,3,7,8-PeCDF	ND	0.346	4.63			EMPC
2,3,4,7,8-PeCDF	0.667	0.134	4.63	33:35	1.6	A
1,2,3,4,7,8-HxCDF	1.09	0.247	4.63	35:35	1.21	A
1,2,3,6,7,8-HxCDF	0.522	0.239	4.63	35:41	1.31	A
2,3,4,6,7,8-HxCDF	0.704	0.239	4.63	36:10	1.26	A
1,2,3,7,8,9-HxCDF	ND	0.307	4.63			
1,2,3,4,6,7,8-HpCDF	10.3	0.0967	4.63	38:22	1.04	
1,2,3,4,7,8,9-HpCDF	ND	0.739	4.63			EMPC
OCDF	31.6	0.0385	9.26	43:59	0.89	
Total TCDDs	ND	3.19	0.926			
Total PeCDDs	4.17	0.0622	4.63			A
Total HxCDDs	20.2	0.127	4.63			
Total HpCDDs	294	0.257	4.63			
Total TCDFs	2.58	0.180	0.926			DPE
Total PeCDFs	6.78	0.141	4.63			DPE
Total HxCDFs	14.5	0.256	4.63			DPE
Total HpCDFs	29.7	0.120	4.63			
WHO-2005 TEQ (ND=0)	2.19					
WHO-2005 TEQ (ND=½)	2.51					

<u>Client Information</u>		<u>Sample Information</u>	
Project Name:	SSFL 230761	Report Basis:	Dry Weight
Sample ID:	HZBS0112S001	Matrix:	Soil
		Weight / Volume:	11.36 Grams
		Solids / Lipids:	95.1 %
		Original pH :	NA
		Batch ID:	WG17137
<u>Laboratory Information</u>			
Project ID:	G341-583	Filename:	a08jun09b_8-8
Sample ID:	G341-583-12B	Retchk:	a08jun09b_7-14
Collection Date/Time:	01-Jun-09 09:44	Begin ConCal:	a08jun09b_7-14
Receipt Date:	03-Jun-09 10:05		
Extraction Date:	07-Jun-09		
Analysis Date:	11-Jun-09 17:34	Initial Cal:	m1613-100708a

Method 1613
HZBS0112S001
 General Engineering Labs

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
¹³ C ₁₂ -2,3,7,8-TCDD	2	1.96	98.0	30:41	0.77	
¹³ C ₁₂ -1,2,3,7,8-PeCDD	2	2.14	107	33:45	1.59	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDD	2	1.82	90.9	36:16	1.26	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDD	2	1.88	93.9	36:21	1.26	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDD	2	1.84	91.9	39:34	1.06	
¹³ C ₁₂ -OCDD	4.00	3.20	80.0	43:42	0.90	
¹³ C ₁₂ -2,3,7,8-TCDF	2	2.06	103	29:46	0.79	
¹³ C ₁₂ -1,2,3,7,8-PeCDF	2	2.17	109	32:58	1.61	
¹³ C ₁₂ -2,3,4,7,8-PeCDF	2	2.13	107	33:34	1.59	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDF	2	1.79	89.6	35:35	0.52	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDF	2	1.88	94.0	35:41	0.52	
¹³ C ₁₂ -2,3,4,6,7,8-HxCDF	2	1.92	95.9	36:09	0.53	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDF	2	1.87	93.6	36:54	0.52	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDF	2	1.83	91.5	38:22	0.45	
¹³ C ₁₂ -1,2,3,4,7,8,9-HpCDF	2	1.75	87.4	40:12	0.44	
Cleanup Standards						
³⁷ Cl ₄ -2,3,7,8-TCDD	0.400	0.409	102	30:42	-	
Injection Standards						
¹³ C ₁₂ -1,2,3,4-TCDD	2.00			29:56	0.78	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDD	2.00			36:35	1.26	

Client Information		Sample Information	
Project Name:	SSFL 230761	Report Basis:	Dry Weight
Sample ID:	HZBS0112S001	Matrix:	Soil
		Weight / Volume:	11.36 Grams
		Solids / Lipids:	95.1 %
		Original pH :	NA
		Batch ID:	WG17137
Laboratory Information		Filename:	a08jun09b_8-8
Project ID:	G341-583	Retchk:	a08jun09b_7-14
Sample ID:	G341-583-12B	Begin ConCal:	a08jun09b_7-14
Collection Date/Time:	01-Jun-09 09:44	Initial Cal:	m1613-100708a
Receipt Date:	03-Jun-09 10:05		
Extraction Date:	07-Jun-09		
Analysis Date:	11-Jun-09 17:34		
Analyzed by: <u>DS</u>		Reviewed by: <u>TM</u>	
Date: <u>6-16-09</u>		Date: <u>6-16-09</u>	

Form Version: [1613_edl]Report

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Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	Adj. RL (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8-TCDD	ND	0.0706	0.882			EMPC
1,2,3,7,8-PeCDD	ND	0.0741	4.41			EMPC
1,2,3,4,7,8-HxCDD	0.0406	0.0379	4.41	36:16	1.37	A
1,2,3,6,7,8-HxCDD	0.213	0.0335	4.41	36:21	1.42	A
1,2,3,7,8,9-HxCDD	0.286	0.0358	4.41	36:36	1.23	A
1,2,3,4,6,7,8-HpCDD	2.41	0.0362	4.41	39:34	1.07	A
OCDD	19.2	0.0603	8.82	43:43	0.88	
2,3,7,8-TCDF	0.266	0.0263	0.882	29:47	0.82	A
1,2,3,7,8-PeCDF	0.0847	0.0489	4.41	32:58	1.63	A
2,3,4,7,8-PeCDF	0.173	0.0512	4.41	33:34	1.42	A
1,2,3,4,7,8-HxCDF	ND	0.0758	4.41			EMPC
1,2,3,6,7,8-HxCDF	0.0864	0.0474	4.41	35:41	1.14	A
2,3,4,6,7,8-HxCDF	0.0953	0.0483	4.41	36:10	1.25	A
1,2,3,7,8,9-HxCDF	ND	0.0633	4.41			
1,2,3,4,6,7,8-HpCDF	0.534	0.0229	4.41	38:22	1.06	A
1,2,3,4,7,8,9-HpCDF	ND	0.0367	4.41			
OCDF	ND	1.12	8.82			EMPC
Total TCDDs	ND	0.890	0.882			
Total PeCDDs	ND	0.109	4.41			
Total HxCDDs	1.59	0.0356	4.41			A
Total HpCDDs	8.29	0.0362	4.41			
Total TCDFs	1.45	0.0263	0.882			
Total PeCDFs	1.32	0.0501	4.41			ADPE
Total HxCDFs	1.16	0.0512	4.41			A
Total HpCDFs	1.08	0.0288	4.41			A
WHO-2005 TEQ (ND=0)	0.188					
WHO-2005 TEQ (ND=1/2)	0.348					

<u>Client Information</u>		<u>Sample Information</u>	
Project Name:	SSFL 230761	Report Basis:	Dry Weight
Sample ID:	HZBS0124S001	Matrix:	Soil
		Weight / Volume:	11.90 Grams
		Solids / Lipids:	95.3 %
		Original pH :	NA
		Batch ID:	WG17137
<u>Laboratory Information</u>			
Project ID:	G341-583	Filename:	a08jun09b_8-9
Sample ID:	G341-583-14B	Retchk:	a08jun09b_7-14
Collection Date/Time:	01-Jun-09 10:58	Begin ConCal:	a08jun09b_7-14
Receipt Date:	03-Jun-09 10:05		
Extraction Date:	07-Jun-09		
Analysis Date:	11-Jun-09 18:22	Initial Cal:	m1613-100708a

Method 1613
HZBS0124S001
 General Engineering Labs

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
¹³ C ₁₂ -2,3,7,8-TCDD	2	1.76	88.2	30:41	0.78	
¹³ C ₁₂ -1,2,3,7,8-PeCDD	2	2.01	100	33:45	1.59	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDD	2	1.77	88.7	36:16	1.26	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDD	2	1.88	93.9	36:21	1.27	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDD	2	1.73	86.5	39:33	1.05	
¹³ C ₁₂ -OCDD	4.00	2.88	72.1	43:42	0.90	
¹³ C ₁₂ -2,3,7,8-TCDF	2	1.84	92.1	29:46	0.79	
¹³ C ₁₂ -1,2,3,7,8-PeCDF	2	2.06	103	32:58	1.59	
¹³ C ₁₂ -2,3,4,7,8-PeCDF	2	2.02	101	33:34	1.60	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDF	2	1.78	88.8	35:35	0.51	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDF	2	1.87	93.4	35:41	0.52	
¹³ C ₁₂ -2,3,4,6,7,8-HxCDF	2	1.85	92.7	36:09	0.52	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDF	2	1.82	90.9	36:54	0.52	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDF	2	1.73	86.3	38:22	0.45	
¹³ C ₁₂ -1,2,3,4,7,8,9-HpCDF	2	1.67	83.5	40:11	0.44	
Cleanup Standards						
³⁷ Cl ₄ -2,3,7,8-TCDD	0.400	0.375	93.8	30:42	-	
Injection Standards						
¹³ C ₁₂ -1,2,3,4-TCDD	2.00			29:56	0.78	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDD	2.00			36:35	1.26	

Client Information		Sample Information	
Project Name:	SSFL 230761	Report Basis:	Dry Weight
Sample ID:	HZBS0124S001	Matrix:	Soil
		Weight / Volume:	11.90 Grams
		Solids / Lipids:	95.3 %
		Original pH :	NA
		Batch ID:	WG17137
Laboratory Information		Filename:	a08jun09b_8-9
Project ID:	G341-583	Retchk:	a08jun09b_7-14
Sample ID:	G341-583-14B	Begin ConCal:	a08jun09b_7-14
Collection Date/Time:	01-Jun-09 10:58	Initial Cal:	m1613-100708a
Receipt Date:	03-Jun-09 10:05		
Extraction Date:	07-Jun-09		
Analysis Date:	11-Jun-09 18:22		
Analyzed by: <u>DS</u>		Reviewed by: <u>TM</u>	
Date: <u>6-16-09</u>		Date: <u>6-16-09</u>	

Form Version [1613_ed]Report

Method 1613
HZBS0123S001
 General Engineering Labs

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	Adj. RL (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8-TCDD	ND	0.0149	0.878			
1,2,3,7,8-PeCDD	ND	0.0378	4.39			
1,2,3,4,7,8-HxCDD	ND	0.0435	4.39			
1,2,3,6,7,8-HxCDD	0.197	0.0404	4.39	36:21	1.14	A
1,2,3,7,8,9-HxCDD	0.219	0.0421	4.39	36:36	1.22	A
1,2,3,4,6,7,8-HpCDD	2.94	0.0939	4.39	39:34	1.07	A
OCDD	23.2	0.0488	8.78	43:43	0.86	
2,3,7,8-TCDF	0.444	0.0557	0.878	29:47	0.82	A
1,2,3,7,8-PeCDF	ND	0.116	4.39			DPE EMPC
2,3,4,7,8-PeCDF	0.279	0.0795	4.39	33:35	1.56	A
1,2,3,4,7,8-HxCDF	0.128	0.0571	4.39	35:35	1.15	A
1,2,3,6,7,8-HxCDF	0.135	0.0569	4.39	35:41	1.14	A
2,3,4,6,7,8-HxCDF	ND	0.158	4.39			EMPC
1,2,3,7,8,9-HxCDF	ND	0.0762	4.39			
1,2,3,4,6,7,8-HpCDF	0.790	0.0149	4.39	38:22	1.05	A
1,2,3,4,7,8,9-HpCDF	0.0562	0.0244	4.39	40:11	1.08	A
OCDF	1.33	0.0414	8.78	43:59	0.87	A
Total TCDDs	ND	0.790	0.878			
Total PeCDDs	0.183	0.0878	4.39			A
Total HxCDDs	1.74	0.0420	4.39			A
Total HpCDDs	10.1	0.0939	4.39			
Total TCDFs	2.25	0.0557	0.878			DPE
Total PeCDFs	2.79	0.0788	4.39			ADPE
Total HxCDFs	1.64	0.0611	4.39			A
Total HpCDFs	1.54	0.0191	4.39			A
WHO-2005 TEQ (ND=0)	0.241					
WHO-2005 TEQ (ND=½)	0.325					

<u>Client Information</u>		<u>Sample Information</u>	
Project Name:	SSFL 230761	Report Basis:	Dry Weight
Sample ID:	HZBS0123S001	Matrix:	Soil
		Weight / Volume:	11.87 Grams
		Solids / Lipids:	96.0 %
		Original pH :	NA
		Batch ID:	WG17137
<u>Laboratory Information</u>			
Project ID:	G341-583	Filename:	a08jun09b_8-10
Sample ID:	G341-583-15B	Retchk:	a08jun09b_7-14
Collection Date/Time:	01-Jun-09 11:17	Begin ConCal:	a08jun09b_7-14
Receipt Date:	03-Jun-09 10:05		
Extraction Date:	07-Jun-09		
Analysis Date:	11-Jun-09 19:10	Initial Cal:	m1613-100708a

Method 1613
HZBS0123S001
 General Engineering Labs

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
¹³ C ₁₂ -2,3,7,8-TCDD	2	1.80	90.1	30:41	0.77	
¹³ C ₁₂ -1,2,3,7,8-PeCDD	2	2.05	102	33:45	1.58	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDD	2	1.86	92.8	36:16	1.26	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDD	2	1.94	96.9	36:21	1.28	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDD	2	1.79	89.7	39:33	1.05	
¹³ C ₁₂ -OCDD	4.00	3.04	75.9	43:42	0.89	
¹³ C ₁₂ -2,3,7,8-TCDF	2	1.93	96.3	29:46	0.80	
¹³ C ₁₂ -1,2,3,7,8-PeCDF	2	2.18	109	32:58	1.61	
¹³ C ₁₂ -2,3,4,7,8-PeCDF	2	2.03	102	33:34	1.62	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDF	2	1.86	92.8	35:35	0.51	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDF	2	1.92	95.9	35:41	0.52	
¹³ C ₁₂ -2,3,4,6,7,8-HxCDF	2	1.93	96.4	36:09	0.52	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDF	2	1.89	94.3	36:54	0.52	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDF	2	1.79	89.3	38:22	0.45	
¹³ C ₁₂ -1,2,3,4,7,8,9-HpCDF	2	1.74	87.1	40:11	0.44	
Cleanup Standards						
³⁷ Cl ₄ -2,3,7,8-TCDD	0.400	0.387	96.8	30:42	-	
Injection Standards						
¹³ C ₁₂ -1,2,3,4-TCDD	2.00			29:56	0.78	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDD	2.00			36:35	1.26	

Client Information		Sample Information	
Project Name:	SSFL 230761	Report Basis:	Dry Weight
Sample ID:	HZBS0123S001	Matrix:	Soil
		Weight / Volume:	11.87 Grams
		Solids / Lipids:	96.0 %
		Original pH :	NA
		Batch ID:	WG17137
Laboratory Information		Filename:	a08jun09b_8-10
Project ID:	G341-583	Retchk:	a08jun09b_7-14
Sample ID:	G341-583-15B	Begin ConCal:	a08jun09b_7-14
Collection Date/Time:	01-Jun-09 11:17	Initial Cal:	m1613-100708a
Receipt Date:	03-Jun-09 10:05		
Extraction Date:	07-Jun-09		
Analysis Date:	11-Jun-09 19:10		
Analyzed by: <u>DS</u>		Reviewed by: <u>SM</u>	
Date: <u>6-16-09</u>		Date: <u>6-16-09</u>	

Form Version:[1613_ed]Report

Method 1613 FBQW2231 General Engineering Labs
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Analytical Data Summary Sheet

Analyte	Amount (ng/L)	EDL (ng/L)	Adj. RL (ng/L)	RT (min.)	Ratio	Qualifier	
2,3,7,8-TCDD	ND	0.000645	0.00949			EMPC	
1,2,3,7,8-PeCDD	ND	0.000307	0.0474				
1,2,3,4,7,8-HxCDD	ND	0.000213	0.0474				
1,2,3,6,7,8-HxCDD	ND	0.000180	0.0474				
1,2,3,7,8,9-HxCDD	ND	0.000197	0.0474				
1,2,3,4,6,7,8-HpCDD	ND	0.000250	0.0474				
OCDD	ND	0.000402	0.0949				
2,3,7,8-TCDF	ND	0.000108	0.00949			EMPC EMPC EMPC	
1,2,3,7,8-PeCDF	ND	0.000285	0.0474				
2,3,4,7,8-PeCDF	ND	0.000398	0.0474				
1,2,3,4,7,8-HxCDF	ND	0.0000778	0.0474				
1,2,3,6,7,8-HxCDF	ND	0.000304	0.0474				
2,3,4,6,7,8-HxCDF	ND	0.0000797	0.0474				
1,2,3,7,8,9-HxCDF	ND	0.000102	0.0474				
1,2,3,4,6,7,8-HpCDF	ND	0.0000930	0.0474				
1,2,3,4,7,8,9-HpCDF	ND	0.000154	0.0474				
OCDF	ND	0.000398	0.0949				
Total TCDDs	ND	0.000336	0.00949				
Total PeCDDs	ND	0.000307	0.0474				
Total HxCDDs	ND	0.000195	0.0474				
Total HpCDDs	ND	0.000250	0.0474				
Total TCDFs	ND	0.000108	0.00949				
Total PeCDFs	ND	0.0000873	0.0474				
Total HxCDFs	ND	0.0000835	0.0474				
Total HpCDFs	ND	0.000120	0.0474				
WHO-2005 TEQ (ND=0)	0						
WHO-2005 TEQ (ND=1/2)	0.00121						

<u>Client Information</u>		<u>Sample Information</u>	
Project Name:	SSFL 230761	Matrix:	Water
Sample ID:	FBQW2231	Weight / Volume:	1054 mL
		Solids / Lipids:	NA %
		Original pH :	8
		Batch ID:	WG17139
<u>Laboratory Information</u>			
Project ID:	G341-583	Filename:	a08jun09b_8-13
Sample ID:	G341-583-16B	Retchk:	a08jun09b_7-14
Collection Date/Time:	01-Jun-09 14:05	Begin ConCal:	a08jun09b_7-14
Receipt Date:	03-Jun-09 10:05		
Extraction Date:	07-Jun-09		
Analysis Date:	11-Jun-09 21:35	Initial Cal:	m1613-100708a

Method 1613 FBQW2231 General Engineering Labs
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Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
¹³ C ₁₂ -2,3,7,8-TCDD	2	1.92	96.1	30:41	0.78	
¹³ C ₁₂ -1,2,3,7,8-PeCDD	2	2.17	109	33:45	1.58	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDD	2	1.88	93.9	36:16	1.26	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDD	2	1.95	97.5	36:21	1.28	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDD	2	1.80	89.8	39:33	1.06	
¹³ C ₁₂ -OCDD	4.00	3.19	79.7	43:42	0.90	
¹³ C ₁₂ -2,3,7,8-TCDF	2	2.05	102	29:46	0.79	
¹³ C ₁₂ -1,2,3,7,8-PeCDF	2	2.15	107	32:58	1.60	
¹³ C ₁₂ -2,3,4,7,8-PeCDF	2	2.19	109	33:34	1.62	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDF	2	1.87	93.4	35:35	0.51	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDF	2	1.94	97.1	35:41	0.52	
¹³ C ₁₂ -2,3,4,6,7,8-HxCDF	2	1.91	95.3	36:09	0.52	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDF	2	1.87	93.7	36:54	0.52	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDF	2	1.84	92.0	38:22	0.44	
¹³ C ₁₂ -1,2,3,4,7,8,9-HpCDF	2	1.72	85.8	40:11	0.44	
Cleanup Standards						
³⁷ Cl ₄ -2,3,7,8-TCDD	0.400	0.427	107	30:42	-	
Injection Standards						
¹³ C ₁₂ -1,2,3,4-TCDD	2.00			29:56	0.79	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDD	2.00			36:35	1.26	

Client Information		Sample Information	
Project Name:	SSFL 230761	Matrix:	Water
Sample ID:	FBQW2231	Weight / Volume:	1054 mL
		Solids / Lipids:	NA %
		Original pH :	8
		Batch ID:	WG17139
Laboratory Information		Filename:	a08jun09b_8-13
Project ID:	G341-583	Retchk:	a08jun09b_7-14
Sample ID:	G341-583-16B	Begin ConCal:	a08jun09b_7-14
Collection Date/Time:	01-Jun-09 14:05	Initial Cal:	m1613-100708a
Receipt Date:	03-Jun-09 10:05		
Extraction Date:	07-Jun-09		
Analysis Date:	11-Jun-09 21:35		
Analyzed by:	<u>DS</u>	Reviewed by:	<u>TM</u>
Date:	<u>6-16-09</u>	Date:	<u>6-16-09</u>

Form Version: [1613_ed1]Report

Method 1613 EBQW2215 General Engineering Labs
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Analytical Data Summary Sheet

Analyte	Amount (ng/L)	EDL (ng/L)	Adj. RL (ng/L)	RT (min.)	Ratio	Qualifier
2,3,7,8-TCDD	ND	0.000262	0.00948			
1,2,3,7,8-PeCDD	ND	0.000142	0.0474			
1,2,3,4,7,8-HxCDD	ND	0.000155	0.0474			
1,2,3,6,7,8-HxCDD	ND	0.000154	0.0474			
1,2,3,7,8,9-HxCDD	ND	0.000155	0.0474			
1,2,3,4,6,7,8-HpCDD	ND	0.000193	0.0474			
OCDD	ND	0.000366	0.0948			
2,3,7,8-TCDF	ND	0.0000891	0.00948			
1,2,3,7,8-PeCDF	ND	0.000341	0.0474			EMPC
2,3,4,7,8-PeCDF	0.000436	0.0000853	0.0474	33:34	1.69	A
1,2,3,4,7,8-HxCDF	ND	0.0000815	0.0474			
1,2,3,6,7,8-HxCDF	ND	0.0000758	0.0474			
2,3,4,6,7,8-HxCDF	ND	0.0000796	0.0474			
1,2,3,7,8,9-HxCDF	ND	0.000100	0.0474			
1,2,3,4,6,7,8-HpCDF	ND	0.000100	0.0474			
1,2,3,4,7,8,9-HpCDF	ND	0.000161	0.0474			
OCDF	ND	0.000307	0.0948			
Total TCDDs	ND	0.000262	0.00948			
Total PeCDDs	ND	0.000142	0.0474			
Total HxCDDs	ND	0.000155	0.0474			
Total HpCDDs	ND	0.000193	0.0474			
Total TCDFs	ND	0.0000891	0.00948			
Total PeCDFs	0.000436	0.0000853	0.0474			A
Total HxCDFs	0.000569	0.0000834	0.0474			A
Total HpCDFs	0.000190	0.000127	0.0474			A
WHO-2005 TEQ (ND=0)	0.000131					
WHO-2005 TEQ (ND=½)	0.000639					

<u>Client Information</u>		<u>Sample Information</u>	
Project Name:	SSFL 230761	Matrix:	Water
Sample ID:	EBQW2215	Weight / Volume:	1055 mL
		Solids / Lipids:	NA %
		Original pH :	8
		Batch ID:	WG17139
<u>Laboratory Information</u>			
Project ID:	G341-583	Filename:	a08jun09b_9-2
Sample ID:	G341-583-17B	Retchk:	a08jun09b_8-14
Collection Date/Time:	01-Jun-09 14:25	Begin ConCal:	a08jun09b_8-14
Receipt Date:	03-Jun-09 10:05		
Extraction Date:	07-Jun-09		
Analysis Date:	12-Jun-09 0:05	Initial Cal:	m1613-100708a

Method 1613
EBQW2215
General Engineering Labs

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
¹³ C ₁₂ -2,3,7,8-TCDD	2	1.93	96.4	30:40	0.79	
¹³ C ₁₂ -1,2,3,7,8-PeCDD	2	2.05	102	33:44	1.61	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDD	2	1.72	86.1	36:16	1.27	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDD	2	1.96	98.1	36:21	1.28	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDD	2	1.76	88.2	39:33	1.05	
¹³ C ₁₂ -OCDD	4.00	3.22	80.5	43:42	0.89	
¹³ C ₁₂ -2,3,7,8-TCDF	2	2.01	101	29:46	0.78	
¹³ C ₁₂ -1,2,3,7,8-PeCDF	2	2.19	109	32:58	1.60	
¹³ C ₁₂ -2,3,4,7,8-PeCDF	2	2.15	108	33:34	1.61	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDF	2	1.85	92.4	35:35	0.55	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDF	2	1.94	96.8	35:40	0.49	
¹³ C ₁₂ -2,3,4,6,7,8-HxCDF	2	1.85	92.4	36:09	0.51	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDF	2	1.84	92.0	36:53	0.51	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDF	2	1.80	89.8	38:22	0.44	
¹³ C ₁₂ -1,2,3,4,7,8,9-HpCDF	2	1.78	88.8	40:11	0.43	
Cleanup Standards						
³⁷ Cl ₄ -2,3,7,8-TCDD	0.400	0.451	113	30:42	-	
Injection Standards						
¹³ C ₁₂ -1,2,3,4-TCDD	2.00			29:55	0.79	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDD	2.00			36:35	1.26	

Client Information		Sample Information	
Project Name:	SSFL 230761	Matrix:	Water
Sample ID:	EBQW2215	Weight / Volume:	1055 mL
		Solids / Lipids:	NA %
		Original pH :	8
		Batch ID:	WG17139
Laboratory Information		Filename:	a08jun09b_9-2
Project ID:	G341-583	Retchk:	a08jun09b_8-14
Sample ID:	G341-583-17B	Begin ConCal:	a08jun09b_8-14
Collection Date/Time:	01-Jun-09 14:25	Initial Cal:	m1613-100708a
Receipt Date:	03-Jun-09 10:05		
Extraction Date:	07-Jun-09		
Analysis Date:	12-Jun-09 0:05		
Analyzed by:	<u>PS</u>	Reviewed by:	<u>TJM</u>
Date:	<u>6-16-09</u>	Date:	<u>6-16-09</u>

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Method 1613
HZBS0115S001
 General Engineering Labs

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	Adj. RL (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8-TCDD	ND	0.101	0.860			EMPC
1,2,3,7,8-PeCDD	0.497	0.0399	4.30	33:45	1.49	A
1,2,3,4,7,8-HxCDD	0.975	0.183	4.30	36:16	1.21	A
1,2,3,6,7,8-HxCDD	3.19	0.172	4.30	36:22	1.23	A
1,2,3,7,8,9-HxCDD	2.27	0.178	4.30	36:36	1.16	A
1,2,3,4,6,7,8-HpCDD	126	0.507	4.30	39:36	1.05	
OCDD	1810	0.0487	8.60	43:48	0.90	
2,3,7,8-TCDF	0.413	0.157	0.860	29:46	0.71	A
1,2,3,7,8-PeCDF	0.189	0.116	4.30	32:58	1.43	A
2,3,4,7,8-PeCDF	0.504	0.118	4.30	33:34	1.52	A
1,2,3,4,7,8-HxCDF	0.518	0.226	4.30	35:36	1.31	A
1,2,3,6,7,8-HxCDF	0.378	0.206	4.30	35:41	1.38	A
2,3,4,6,7,8-HxCDF	0.588	0.230	4.30	36:10	1.25	A
1,2,3,7,8,9-HxCDF	ND	0.283	4.30			
1,2,3,4,6,7,8-HpCDF	15.4	0.160	4.30	38:24	1.03	
1,2,3,4,7,8,9-HpCDF	0.753	0.260	4.30	40:15	0.94	A
OCDF	69.0	0.0796	8.60	44:04	0.88	
Total TCDDs	ND	4.44	0.860			
Total PeCDDs	3.20	0.0399	4.30			A
Total HxCDDs	25.4	0.178	4.30			
Total HpCDDs	508	0.507	4.30			
Total TCDFs	2.38	0.157	0.860			DPE
Total PeCDFs	6.77	0.117	4.30			DPE
Total HxCDFs	14.4	0.234	4.30			DPE
Total HpCDFs	49.2	0.202	4.30			
WHO-2005 TEQ (ND=0)	3.47					
WHO-2005 TEQ (ND=1/2)	3.60					

<u>Client Information</u>		<u>Sample Information</u>	
Project Name:	SSFL 230761	Report Basis:	Dry Weight
Sample ID:	HZBS0115S001	Matrix:	Soil
		Weight / Volume:	12.33 Grams
		Solids / Lipids:	94.3 %
		Original pH :	NA
		Batch ID:	WG17142
<u>Laboratory Information</u>		Filename:	a08jun09b_11-4
Project ID:	G341-583	Retchk:	a08jun09b_10-9
Sample ID:	G341-583-18B	Begin ConCal:	a08jun09b_10-9
Collection Date/Time:	01-Jun-09 15:15	Initial Cal:	m1613-100708a
Receipt Date:	03-Jun-09 10:05		
Extraction Date:	09-Jun-09		
Analysis Date:	12-Jun-09 18:47		

Method 1613
HZBS0115S001
 General Engineering Labs

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
¹³ C ₁₂ -2,3,7,8-TCDD	2	1.80	89.8	30:41	0.78	
¹³ C ₁₂ -1,2,3,7,8-PeCDD	2	1.88	94.1	33:45	1.64	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDD	2	1.63	81.4	36:16	1.26	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDD	2	1.83	91.5	36:21	1.27	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDD	2	1.63	81.7	39:35	1.06	
¹³ C ₁₂ -OCDD	4.00	2.57	64.4	43:47	0.90	
¹³ C ₁₂ -2,3,7,8-TCDF	2	1.84	91.8	29:45	0.80	
¹³ C ₁₂ -1,2,3,7,8-PeCDF	2	1.89	94.5	32:58	1.63	
¹³ C ₁₂ -2,3,4,7,8-PeCDF	2	1.94	97.1	33:34	1.61	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDF	2	1.69	84.3	35:35	0.51	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDF	2	1.78	88.9	35:41	0.52	
¹³ C ₁₂ -2,3,4,6,7,8-HxCDF	2	1.76	87.9	36:10	0.52	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDF	2	1.70	85.0	36:54	0.52	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDF	2	1.66	83.0	38:23	0.44	
¹³ C ₁₂ -1,2,3,4,7,8,9-HpCDF	2	1.54	76.9	40:14	0.43	
Cleanup Standards						
³⁷ Cl ₄ -2,3,7,8-TCDD	0.400	0.362	90.5	30:42	-	
Injection Standards						
¹³ C ₁₂ -1,2,3,4-TCDD	2.00			29:56	0.79	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDD	2.00			36:36	1.25	

Client Information		Sample Information	
Project Name:	SSFL 230761	Report Basis:	Dry Weight
Sample ID:	HZBS0115S001	Matrix:	Soil
		Weight / Volume:	12.33 Grams
		Solids / Lipids:	94.3 %
		Original pH :	NA
		Batch ID:	WG17142
Laboratory Information		Filename:	a08jun09b_11-4
Project ID:	G341-583	Retchk:	a08jun09b_10-9
Sample ID:	G341-583-18B	Begin ConCal:	a08jun09b_10-9
Collection Date/Time:	01-Jun-09 15:15	Initial Cal:	m1613-100708a
Receipt Date:	03-Jun-09 10:05		
Extraction Date:	09-Jun-09		
Analysis Date:	12-Jun-09 18:47		
Analyzed by:	<u>DS</u>	Reviewed by:	<u>TM</u>
Date:	<u>6-16-09</u>	Date:	<u>6-16-09</u>

Form Version: [1613_ed1]Report

Method 1613

HZBS0085S001

General Engineering Labs

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	Adj. RL (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8-TCDD	ND	0.0978	0.858			EMPC
1,2,3,7,8-PeCDD	0.324	0.0722	4.29	33:46	1.73	A
1,2,3,4,7,8-HxCDD	0.407	0.100	4.29	36:17	1.29	A
1,2,3,6,7,8-HxCDD	1.34	0.107	4.29	36:22	1.2	A
1,2,3,7,8,9-HxCDD	1.18	0.104	4.29	36:37	1.30	A
1,2,3,4,6,7,8-HpCDD	16.5	0.143	4.29	39:36	1.08	
OCDD	162	0.188	8.58	43:47	0.88	
2,3,7,8-TCDF	0.865	0.111	0.858	29:48	0.77	
1,2,3,7,8-PeCDF	1.05	0.107	4.29	32:58	1.59	A
2,3,4,7,8-PeCDF	2.12	0.111	4.29	33:34	1.71	A
1,2,3,4,7,8-HxCDF	3.99	0.350	4.29	35:36	1.21	A
1,2,3,6,7,8-HxCDF	2.68	0.312	4.29	35:42	1.30	A
2,3,4,6,7,8-HxCDF	3.43	0.342	4.29	36:10	1.26	A
1,2,3,7,8,9-HxCDF	0.717	0.445	4.29	36:55	1.28	A
1,2,3,4,6,7,8-HpCDF	25.5	0.135	4.29	38:24	1.06	
1,2,3,4,7,8,9-HpCDF	1.72	0.205	4.29	40:14	1.02	A
OCDF	25.6	0.170	8.58	44:03	0.87	
Total TCDDs	ND	2.95	0.858			
Total PeCDDs	2.02	0.0722	4.29			A
Total HxCDDs	9.86	0.104	4.29			
Total HpCDDs	60.4	0.143	4.29			
Total TCDFs	10.5	0.111	0.858			DPE
Total PeCDFs	23.6	0.109	4.29			DPE
Total HxCDFs	29.2	0.358	4.29			DPE
Total HpCDFs	35.8	0.165	4.29			
WHO-2005 TEQ (ND=0)	2.95					
WHO-2005 TEQ (ND=1/2)	3.04					

<u>Client Information</u>		<u>Sample Information</u>	
Project Name:	SSFL 230761	Report Basis:	Dry Weight
Sample ID:	HZBS0085S001	Matrix:	Soil
		Weight / Volume:	13.56 Grams
		Solids / Lipids:	86.0 %
		Original pH :	NA
		Batch ID:	WG17142
<u>Laboratory Information</u>			
Project ID:	G341-583	Filename:	a08jun09b_11-5
Sample ID:	G341-583-19B	Retchk:	a08jun09b_10-9
Collection Date/Time:	25-Feb-09 12:00	Begin ConCal:	a08jun09b_10-9
Receipt Date:	03-Jun-09 10:05		
Extraction Date:	09-Jun-09		
Analysis Date:	12-Jun-09 19:35	Initial Cal:	m1613-100708a

Method 1613
HZBS0085S001
 General Engineering Labs

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
¹³ C ₁₂ -2,3,7,8-TCDD	2	2.00	100	30:41	0.78	
¹³ C ₁₂ -1,2,3,7,8-PeCDD	2	2.14	107	33:45	1.60	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDD	2	1.84	92.0	36:16	1.26	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDD	2	2.02	101	36:21	1.27	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDD	2	1.83	91.4	39:35	1.05	
¹³ C ₁₂ -OCDD	4.00	2.89	72.4	43:46	0.90	
¹³ C ₁₂ -2,3,7,8-TCDF	2	2.04	102	29:46	0.79	
¹³ C ₁₂ -1,2,3,7,8-PeCDF	2	2.19	109	32:58	1.63	
¹³ C ₁₂ -2,3,4,7,8-PeCDF	2	2.18	109	33:34	1.58	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDF	2	1.90	94.9	35:35	0.51	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDF	2	2.00	99.8	35:41	0.52	
¹³ C ₁₂ -2,3,4,6,7,8-HxCDF	2	1.98	99.0	36:10	0.52	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDF	2	1.90	94.9	36:54	0.52	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDF	2	1.88	93.9	38:23	0.44	
¹³ C ₁₂ -1,2,3,4,7,8,9-HpCDF	2	1.77	88.5	40:14	0.43	
Cleanup Standards						
³⁷ Cl ₄ -2,3,7,8-TCDD	0.400	0.398	99.5	30:42	-	
Injection Standards						
¹³ C ₁₂ -1,2,3,4-TCDD	2.00			29:56	0.79	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDD	2.00			36:36	1.26	

Client Information		Sample Information	
Project Name:	SSFL 230761	Report Basis:	Dry Weight
Sample ID:	HZBS0085S001	Matrix:	Soil
		Weight / Volume:	13.56 Grams
		Solids / Lipids:	86.0 %
		Original pH :	NA
		Batch ID:	WG17142
Laboratory Information			
Project ID:	G341-583	Filename:	a08jun09b_11-5
Sample ID:	G341-583-19B	Retchk:	a08jun09b_10-9
Collection Date/Time:	25-Feb-09 12:00	Begin ConCal:	a08jun09b_10-9
Receipt Date:	03-Jun-09 10:05	Initial Cal:	m1613-100708a
Extraction Date:	09-Jun-09		
Analysis Date:	12-Jun-09 19:35		
Analyzed by: _____		Reviewed by: <i>JM</i>	
Date: _____		Date: <i>6-16-09</i>	

Form Version:[1613_ed]Report

TCDF Confirmation - Method 1613
HZBS0085S001
 General Engineering Labs

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	Adj. EDL (pg/g)	Adj. RL (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8-TCDF	1.01	0.339	0.858	20.34	0.88	

Labeled Standard	Spiked Amount (ng)	RT (min.)	Ratio	Qualifier
Extraction Standards 13C12-2,3,7,8-TCDF	2	20.34	0.78	

Client Information		Sample Information	
Project Name:	SSFL 230761	Report Basis:	Dry
Sample ID:	HZBS0085S001	Matrix:	Soil
		Weight / Volume:	13.56 g
		Solids / Lipids:	86.0 %
		Original pH :	NA
		Batch ID:	WG17142
		Instrument:	hrms3
		Filename:	c16jun09c-5
		Retchk:	c16may09c-2
		Begin ConCal:	c16may09c-1
		Initial Cal:	mcf-c042709a
Laboratory Information			
Project ID:	G341-583		
Sample ID:	G341-583-19B		
Collection Date/Time:	02/25/09 12:00		
Receipt Date:	06/03/09 10:05		
Extraction Date:	06/09/09		
Analysis Date/Time:	06/16/09 14:09		

Analyzed by: JW
 Date: 06/16/09

Reviewed by: _____
 Date: _____

Method 1613

HZBS0065S001

General Engineering Labs

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	Adj. RL (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8-TCDD	ND	0.0126	0.910			
1,2,3,7,8-PeCDD	0.157	0.0666	4.55	33:44	1.39	A
1,2,3,4,7,8-HxCDD	0.120	0.106	4.55	36:16	1.37	A
1,2,3,6,7,8-HxCDD	ND	1.04	4.55			EMPC
1,2,3,7,8,9-HxCDD	1.09	0.103	4.55	36:36	1.33	A
1,2,3,4,6,7,8-HpCDD	14.2	0.190	4.55	39:34	1.04	
OCDD	238	0.182	9.10	43:43	0.88	
2,3,7,8-TCDF	0.410	0.0743	0.910	29:47	0.76	A
1,2,3,7,8-PeCDF	0.158	0.0970	4.55	32:58	1.32	ADPE
2,3,4,7,8-PeCDF	0.335	0.103	4.55	33:34	1.66	A
1,2,3,4,7,8-HxCDF	0.229	0.124	4.55	35:36	1.28	A
1,2,3,6,7,8-HxCDF	0.208	0.125	4.55	35:41	1.31	A
2,3,4,6,7,8-HxCDF	0.244	0.129	4.55	36:09	1.29	A
1,2,3,7,8,9-HxCDF	0.297	0.162	4.55	36:54	1.28	A
1,2,3,4,6,7,8-HpCDF	2.17	0.0506	4.55	38:22	1.10	A
1,2,3,4,7,8,9-HpCDF	ND	0.182	4.55			EMPC
OCDF	5.09	0.119	9.10	43:59	0.89	A
Total TCDDs	ND	3.30	0.910			
Total PeCDDs	0.949	0.0666	4.55			A
Total HxCDDs	5.13	0.103	4.55			
Total HpCDDs	70.6	0.190	4.55			
Total TCDFs	2.43	0.0743	0.910			DPE
Total PeCDFs	3.79	0.100	4.55			DPE
Total HxCDFs	4.70	0.134	4.55			
Total HpCDFs	5.70	0.0654	4.55			
WHO-2005 TEQ (ND=0)	0.759					
WHO-2005 TEQ (ND=½)	0.877					

<u>Client Information</u>		<u>Sample Information</u>	
Project Name:	SSFL 230761	Report Basis:	Dry Weight
Sample ID:	HZBS0065S001	Matrix:	Soil
		Weight / Volume:	12.73 Grams
		Solids / Lipids:	86.3 %
		Original pH :	NA
		Batch ID:	WG17142
<u>Laboratory Information</u>			
Project ID:	G341-583	Filename:	a08jun09b_11-6
Sample ID:	G341-583-20B	Retchk:	a08jun09b_10-9
Collection Date/Time:	24-Feb-09 11:39	Begin ConCal:	a08jun09b_10-9
Receipt Date:	03-Jun-09 10:05		
Extraction Date:	09-Jun-09		
Analysis Date:	12-Jun-09 20:24	Initial Cal:	m1613-100708a

Method 1613
HZBS0065S001
 General Engineering Labs

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
¹³ C ₁₂ -2,3,7,8-TCDD	2	1.93	96.7	30:41	0.78	
¹³ C ₁₂ -1,2,3,7,8-PeCDD	2	2.07	103	33:44	1.61	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDD	2	1.74	87.1	36:16	1.27	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDD	2	2.00	99.8	36:21	1.28	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDD	2	1.87	93.3	39:33	1.06	
¹³ C ₁₂ -OCDD	4.00	3.00	75.0	43:42	0.89	
¹³ C ₁₂ -2,3,7,8-TCDF	2	1.97	98.4	29:46	0.79	
¹³ C ₁₂ -1,2,3,7,8-PeCDF	2	2.14	107	32:58	1.61	
¹³ C ₁₂ -2,3,4,7,8-PeCDF	2	2.08	104	33:34	1.59	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDF	2	1.81	90.5	35:35	0.55	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDF	2	1.93	96.5	35:40	0.50	
¹³ C ₁₂ -2,3,4,6,7,8-HxCDF	2	1.90	95.2	36:09	0.52	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDF	2	1.83	91.6	36:53	0.51	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDF	2	1.86	92.8	38:22	0.44	
¹³ C ₁₂ -1,2,3,4,7,8,9-HpCDF	2	1.79	89.3	40:11	0.44	
Cleanup Standards						
³⁷ Cl ₄ -2,3,7,8-TCDD	0.400	0.392	98.0	30:42	-	
Injection Standards						
¹³ C ₁₂ -1,2,3,4-TCDD	2.00			29:56	0.79	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDD	2.00			36:35	1.26	

Client Information		Sample Information	
Project Name:	SSFL 230761	Report Basis:	Dry Weight
Sample ID:	HZBS0065S001	Matrix:	Soil
		Weight / Volume:	12.73 Grams
		Solids / Lipids:	86.3 %
		Original pH :	NA
		Batch ID:	WG17142
Laboratory Information		Filename:	a08jun09b_11-6
Project ID:	G341-583	Retchk:	a08jun09b_10-9
Sample ID:	G341-583-20B	Begin ConCal:	a08jun09b_10-9
Collection Date/Time:	24-Feb-09 11:39	Initial Cal:	m1613-100708a
Receipt Date:	03-Jun-09 10:05		
Extraction Date:	09-Jun-09		
Analysis Date:	12-Jun-09 20:24		
Analyzed by:	<u>DS</u>	Reviewed by:	<u>JM</u>
Date:	<u>6-16-09</u>	Date:	<u>6-16-09</u>

Method 1613

Results for MS/MSD

HZBS0118S001

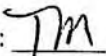
Analyte	Sample	Spike	MS	%REC	#	MSD	%REC	%RPD	#
	pg/g	pg	pg/g	(70-130)		pg/g	(70-130)	(20)	
2,3,7,8-TCDD	ND	200	15.0	87.8		14.5	86.7	3.39	
1,2,3,7,8-PeCDD	0.102	1000	82.3	96.2		83.1	99.2	0.967	
1,2,3,4,7,8-HxCDD	ND	1000	85.8	100		84.6	101	1.41	
1,2,3,6,7,8-HxCDD	0.562	1000	81.3	94.5		80.4	95.5	1.11	
1,2,3,7,8,9-HxCDD	ND	1000	83.4	97.6		82.2	98.3	1.45	
1,2,3,4,6,7,8-HpCDD	17.4	1000	108	106		98.3	96.7	9.40	
OCDD	234	2000	485	147	*	362	76.5	29.0	*
2,3,7,8-TCDF	0.309	200	14.5	83.0		14.7	86.0	1.37	
1,2,3,7,8-PeCDF	0.130	1000	85.0	99.3		83.9	100	1.30	
2,3,4,7,8-PeCDF	0.278	1000	83.3	97.1		84.0	100	0.837	
1,2,3,4,7,8-HxCDF	0.224	1000	84.0	98.0		83.5	99.6	0.597	
1,2,3,6,7,8-HxCDF	0.167	1000	82.5	96.3		81.9	97.7	0.730	
2,3,4,6,7,8-HxCDF	0.207	1000	84.4	98.5		80.7	96.3	4.48	
1,2,3,7,8,9-HxCDF	0.149	1000	83.5	97.5		82.2	98.1	1.57	
1,2,3,4,6,7,8-HpCDF	2.04	1000	84.8	96.8		82.7	96.4	2.51	
1,2,3,4,7,8,9-HpCDF	0.196	1000	79.7	93.0		79.4	94.7	0.377	
OCDF	5.24	2000	173	98.1		167	96.7	3.53	

Client Information

Project ID:	SSFL 230761	Solids:	98.66	%
Sample ID:	HZBS0118S001	Sample amount:	11.68	g
		MS amount:	11.86	g
		MSD amount:	12.12	g

Laboratory Information

Project ID:	G341-583
Sample ID:	G341-583-11B
MS ID:	G341-583-21B
MSD ID:	G341-583-22B

Reviewed By: 

Method 1613
HZBS0118S001 MS
 General Engineering Labs

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	Adj. RL (pg/g)	RT (min.)	Ratio	Qualifier	
2,3,7,8-TCDD	15.0	0.521	0.855	30:42	0.76	DPE	
1,2,3,7,8-PeCDD	82.3	0.0270	4.27	33:45	1.59		
1,2,3,4,7,8-HxCDD	85.8	0.0769	4.27	36:17	1.25		
1,2,3,6,7,8-HxCDD	81.3	0.0702	4.27	36:22	1.26		
1,2,3,7,8,9-HxCDD	83.4	0.0740	4.27	36:36	1.26		
1,2,3,4,6,7,8-HpCDD	108	0.192	4.27	39:34	1.05		
OCDD	485	0.0321	8.55	43:42	0.89		
2,3,7,8-TCDF	14.5	0.0265	0.855	29:47	0.78		
1,2,3,7,8-PeCDF	85.0	0.176	4.27	32:59	1.57		
2,3,4,7,8-PeCDF	83.3	0.190	4.27	33:34	1.59		
1,2,3,4,7,8-HxCDF	84.0	0.0379	4.27	35:35	1.25		
1,2,3,6,7,8-HxCDF	82.5	0.0376	4.27	35:41	1.27		
2,3,4,6,7,8-HxCDF	84.4	0.0393	4.27	36:10	1.27		
1,2,3,7,8,9-HxCDF	83.5	0.0528	4.27	36:54	1.28		
1,2,3,4,6,7,8-HpCDF	84.8	0.136	4.27	38:22	1.04		
1,2,3,4,7,8,9-HpCDF	79.7	0.219	4.27	40:12	1.04		
OCDF	173	0.0270	8.55	43:58	0.9		

<u>Client Information</u>		<u>Sample Information</u>	
Project Name:	SSFL 230761	Report Basis:	Dry Weight
Sample ID:	HZBS0118S001 MS	Matrix:	Soil
		Weight / Volume:	11.86 Grams
		Solids / Lipids:	98.7 %
		Original pH :	NA
		Batch ID:	WG17137
<u>Laboratory Information</u>			
Project ID:	G341-583	Filename:	a08jun09b_8-11
Sample ID:	G341-583-21B	Retchk:	a08jun09b_7-14
Collection Date/Time:	01-Jun-09 09:26	Begin ConCal:	a08jun09b_7-14
Receipt Date:	03-Jun-09 10:05		
Extraction Date:	07-Jun-09		
Analysis Date:	11-Jun-09 19:59	Initial Cal:	m1613-100708a

Method 1613
HZBS0118S001 MS
 General Engineering Labs

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
¹³ C ₁₂ -2,3,7,8-TCDD	2	1.86	93.0	30:41	0.78	
¹³ C ₁₂ -1,2,3,7,8-PeCDD	2	2.12	106	33:45	1.62	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDD	2	1.92	95.9	36:16	1.27	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDD	2	1.94	97.0	36:21	1.26	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDD	2	1.85	92.6	39:33	1.05	
¹³ C ₁₂ -OCDD	4.00	3.23	80.8	43:41	0.89	
¹³ C ₁₂ -2,3,7,8-TCDF	2	2.02	101	29:46	0.79	
¹³ C ₁₂ -1,2,3,7,8-PeCDF	2	2.20	110	32:58	1.62	
¹³ C ₁₂ -2,3,4,7,8-PeCDF	2	2.12	106	33:34	1.61	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDF	2	1.89	94.5	35:35	0.51	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDF	2	1.94	97.1	35:41	0.52	
¹³ C ₁₂ -2,3,4,6,7,8-HxCDF	2	1.93	96.6	36:09	0.52	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDF	2	1.93	96.6	36:53	0.52	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDF	2	1.86	93.0	38:22	0.44	
¹³ C ₁₂ -1,2,3,4,7,8,9-HpCDF	2	1.74	87.2	40:11	0.44	
Cleanup Standards						
³⁷ Cl ₄ -2,3,7,8-TCDD	0.400	0.408	102	30:42	-	
Injection Standards						
¹³ C ₁₂ -1,2,3,4-TCDD	2.00			29:56	0.79	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDD	2.00			36:35	1.26	

Client Information		Sample Information	
Project Name:	SSFL 230761	Report Basis:	Dry Weight
Sample ID:	HZBS0118S001 MS	Matrix:	Soil
		Weight / Volume:	11.86 Grams
		Solids / Lipids:	98.7 %
		Original pH :	NA
		Batch ID:	WG17137
Laboratory Information		Filename:	a08jun09b_8-11
Project ID:	G341-583	Retchk:	a08jun09b_7-14
Sample ID:	G341-583-21B	Begin ConCal:	a08jun09b_7-14
Collection Date/Time:	01-Jun-09 09:26	Initial Cal:	m1613-100708a
Receipt Date:	03-Jun-09 10:05		
Extraction Date:	07-Jun-09		
Analysis Date:	11-Jun-09 19:59		
Analyzed by: <u>DS</u>		Reviewed by: <u>Tm</u>	
Date: <u>6-16-09</u>		Date: <u>6-16-09</u>	

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Method 1613
HZBS0118S001 MSD
 General Engineering Labs

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	Adj. RL (pg/g)	RT (min.)	Ratio	Qualifier	
2,3,7,8-TCDD	14.5	0.586	0.836	30:42	0.79	DPE	
1,2,3,7,8-PeCDD	83.1	0.0232	4.18	33:45	1.59		
1,2,3,4,7,8-HxCDD	84.6	0.0642	4.18	36:17	1.26		
1,2,3,6,7,8-HxCDD	80.4	0.0616	4.18	36:22	1.26		
1,2,3,7,8,9-HxCDD	82.2	0.0632	4.18	36:36	1.26		
1,2,3,4,6,7,8-HpCDD	98.3	0.180	4.18	39:34	1.05		
OCDD	362	0.0624	8.36	43:42	0.89		
2,3,7,8-TCDF	14.7	0.0360	0.836	29:47	0.77		
1,2,3,7,8-PeCDF	83.9	0.153	4.18	32:59	1.60		
2,3,4,7,8-PeCDF	84.0	0.150	4.18	33:34	1.61		
1,2,3,4,7,8-HxCDF	83.5	0.278	4.18	35:35	1.26		
1,2,3,6,7,8-HxCDF	81.9	0.287	4.18	35:41	1.28		
2,3,4,6,7,8-HxCDF	80.7	0.284	4.18	36:10	1.27		
1,2,3,7,8,9-HxCDF	82.2	0.353	4.18	36:54	1.26		
1,2,3,4,6,7,8-HpCDF	82.7	0.143	4.18	38:22	1.05		
1,2,3,4,7,8,9-HpCDF	79.4	0.218	4.18	40:12	1.04		
OCDF	167	0.0430	8.36	43:58	0.91		

<u>Client Information</u>		<u>Sample Information</u>	
Project Name:	SSFL 230761	Report Basis:	Dry Weight
Sample ID:	HZBS0118S001 MSD	Matrix:	Soil
		Weight / Volume:	12.12 Grams
		Solids / Lipids:	98.7 %
		Original pH :	NA
		Batch ID:	WG17137
<u>Laboratory Information</u>			
Project ID:	G341-583	Filename:	a08jun09b_8-12
Sample ID:	G341-583-22B	Retchk:	a08jun09b_7-14
Collection Date/Time:	01-Jun-09 09:26	Begin ConCal:	a08jun09b_7-14
Receipt Date:	03-Jun-09 10:05		
Extraction Date:	07-Jun-09		
Analysis Date:	11-Jun-09 20:47	Initial Cal:	m1613-100708a

Method 1613
HZBS0118S001 MSD
 General Engineering Labs

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
¹³ C ₁₂ -2,3,7,8-TCDD	2	1.90	94.8	30:41	0.78	
¹³ C ₁₂ -1,2,3,7,8-PeCDD	2	2.06	103	33:45	1.60	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDD	2	1.88	94.1	36:16	1.28	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDD	2	1.91	95.7	36:21	1.26	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDD	2	1.91	95.4	39:33	1.06	
¹³ C ₁₂ -OCDD	4.00	3.23	80.6	43:41	0.90	
¹³ C ₁₂ -2,3,7,8-TCDF	2	1.98	99.1	29:46	0.79	
¹³ C ₁₂ -1,2,3,7,8-PeCDF	2	2.16	108	32:58	1.61	
¹³ C ₁₂ -2,3,4,7,8-PeCDF	2	2.02	101	33:34	1.62	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDF	2	1.87	93.3	35:35	0.51	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDF	2	1.90	95.2	35:41	0.53	
¹³ C ₁₂ -2,3,4,6,7,8-HxCDF	2	1.89	94.5	36:09	0.51	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDF	2	1.91	95.3	36:53	0.52	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDF	2	1.87	93.5	38:22	0.45	
¹³ C ₁₂ -1,2,3,4,7,8,9-HpCDF	2	1.85	92.3	40:11	0.44	
Cleanup Standards						
³⁷ Cl ₄ -2,3,7,8-TCDD	0.400	0.407	102	30:42	-	
Injection Standards						
¹³ C ₁₂ -1,2,3,4-TCDD	2.00			29:56	0.78	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDD	2.00			36:35	1.27	

Client Information		Sample Information	
Project Name:	SSFL 230761	Report Basis:	Dry Weight
Sample ID:	HZBS0118S001 MSD	Matrix:	Soil
		Weight / Volume:	12.12 Grams
		Solids / Lipids:	98.7 %
		Original pH :	NA
		Batch ID:	WG17137
Laboratory Information		Filename:	a08jun09b_8-12
Project ID:	G341-583	Retchk:	a08jun09b_7-14
Sample ID:	G341-583-22B	Begin ConCal:	a08jun09b_7-14
Collection Date/Time:	01-Jun-09 09:26	Initial Cal:	m1613-100708a
Receipt Date:	03-Jun-09 10:05		
Extraction Date:	07-Jun-09		
Analysis Date:	11-Jun-09 20:47		
Analyzed by: <u>DS</u>		Reviewed by: <u>TM</u>	
Date: <u>6-16-09</u>		Date: <u>6-16-09</u>	

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Method 1613
Results for MS/MSD
 HZBS0065S001

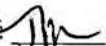
Analyte	Sample	Spike	MS	%REC	#	MSD	%REC	#	%RPD	#
	pg/g	pg	pg/g	(70-130)		pg/g	(70-130)		(20)	
2,3,7,8-TCDD	ND	200	15.7	86.5		14.7	84.5		6.58	
1,2,3,7,8-PeCDD	0.157	1000	87.8	96.6		84.9	97.5		3.36	
1,2,3,4,7,8-HxCDD	0.120	1000	92.5	102		88.3	101		4.65	
1,2,3,6,7,8-HxCDD	ND	1000	89.4	98.5		85.0	97.8		5.05	
1,2,3,7,8,9-HxCDD	1.09	1000	86.4	94.0		82.9	94.1		4.13	
1,2,3,4,6,7,8-HpCDD	14.2	1000	106	101		103	102		2.87	
OCDD	238	2000	397	87.6		474	136	*	17.7	
2,3,7,8-TCDF	0.410	200	16.5	88.6		15.4	86.2		6.90	
1,2,3,7,8-PeCDF	0.158	1000	90.5	99.5		86.8	99.7		4.17	
2,3,4,7,8-PeCDF	0.335	1000	89.4	98.1		85.4	97.8		4.58	
1,2,3,4,7,8-HxCDF	0.229	1000	89.0	97.8		86.9	99.7		2.39	
1,2,3,6,7,8-HxCDF	0.208	1000	94.7	104		84.4	96.8		11.5	
2,3,4,6,7,8-HxCDF	0.244	1000	90.9	99.9		86.4	99.1		5.08	
1,2,3,7,8,9-HxCDF	0.297	1000	91.6	101		86.4	99.0		5.84	
1,2,3,4,6,7,8-HpCDF	2.17	1000	92.3	99.3		87.1	97.7		5.80	
1,2,3,4,7,8,9-HpCDF	ND	1000	87.1	96.0		81.9	94.2		6.15	
OCDF	5.09	2000	194	104		180	101		7.49	

Client Information

Project ID:	SSFL 230761	Solids:	86.29	%
Sample ID:	HZBS0065S001	Sample amount:	12.73	g
		MS amount:	12.77	g
		MSD amount:	13.33	g

Laboratory Information

Project ID:	G341-583
Sample ID:	G341-583-20B
MS ID:	G341-583-23C
MSD ID:	G341-583-24B

Reviewed By: 

Method 1613
HZBS0065S001 MS
 General Engineering Labs

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	Adj. RL (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8-TCDD	15.7	0.0309	0.908	30:42	0.76	
1,2,3,7,8-PeCDD	87.8	0.0590	4.54	33:45	1.57	
1,2,3,4,7,8-HxCDD	92.5	0.0976	4.54	36:16	1.26	
1,2,3,6,7,8-HxCDD	89.4	0.0842	4.54	36:21	1.27	
1,2,3,7,8,9-HxCDD	86.4	0.0909	4.54	36:36	1.25	
1,2,3,4,6,7,8-HpCDD	106	0.215	4.54	39:34	1.05	
OCDD	397	0.179	9.08	43:42	0.89	
2,3,7,8-TCDF	16.5	0.0848	0.908	29:47	0.79	
1,2,3,7,8-PeCDF	90.5	0.209	4.54	32:59	1.60	
2,3,4,7,8-PeCDF	89.4	0.203	4.54	33:34	1.57	
1,2,3,4,7,8-HxCDF	89.0	0.155	4.54	35:36	1.24	
1,2,3,6,7,8-HxCDF	94.7	0.148	4.54	35:41	1.25	
2,3,4,6,7,8-HxCDF	90.9	0.164	4.54	36:10	1.25	
1,2,3,7,8,9-HxCDF	91.6	0.220	4.54	36:54	1.26	
1,2,3,4,6,7,8-HpCDF	92.3	0.198	4.54	38:22	1.05	
1,2,3,4,7,8,9-HpCDF	87.1	0.307	4.54	40:12	1.05	
OCDF	194	0.138	9.08	43:58	0.9	

<u>Client Information</u>		<u>Sample Information</u>	
Project Name:	SSFL 230761	Report Basis:	Dry Weight
Sample ID:	HZBS0065S001 MS	Matrix:	Soil
		Weight / Volume:	12.77 Grams
		Solids / Lipids:	86.3 %
		Original pH :	NA
		Batch ID:	WG17142
<u>Laboratory Information</u>			
Project ID:	G341-583	Filename:	a08jun09b_11-7
Sample ID:	G341-583-23C	Retchk:	a08jun09b_10-9
Collection Date/Time:	24-Feb-09 11:39	Begin ConCal:	a08jun09b_10-9
Receipt Date:	03-Jun-09 10:05		
Extraction Date:	09-Jun-09		
Analysis Date:	12-Jun-09 21:12	Initial Cal:	m1613-100708a

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 General Engineering Labs

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
¹³ C ₁₂ -2,3,7,8-TCDD	2	1.85	92.6	30:41	0.79	
¹³ C ₁₂ -1,2,3,7,8-PeCDD	2	2.00	100	33:44	1.58	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDD	2	1.86	93.0	36:16	1.26	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDD	2	2.06	103	36:20	1.28	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDD	2	1.84	92.2	39:33	1.06	
¹³ C ₁₂ -OCDD	4.00	2.84	71.0	43:42	0.90	
¹³ C ₁₂ -2,3,7,8-TCDF	2	1.90	95.0	29:46	0.78	
¹³ C ₁₂ -1,2,3,7,8-PeCDF	2	2.05	102	32:58	1.58	
¹³ C ₁₂ -2,3,4,7,8-PeCDF	2	2.01	101	33:33	1.61	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDF	2	1.90	95.2	35:35	0.55	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDF	2	1.95	97.7	35:40	0.50	
¹³ C ₁₂ -2,3,4,6,7,8-HxCDF	2	1.96	97.9	36:09	0.52	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDF	2	1.88	93.9	36:53	0.52	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDF	2	1.82	91.0	38:22	0.44	
¹³ C ₁₂ -1,2,3,4,7,8,9-HpCDF	2	1.83	91.4	40:11	0.44	
Cleanup Standards						
³⁷ Cl ₄ -2,3,7,8-TCDD	0.400	0.382	95.5	30:42	-	
Injection Standards						
¹³ C ₁₂ -1,2,3,4-TCDD	2.00			29:56	0.79	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDD	2.00			36:35	1.26	

Client Information		Sample Information	
Project Name:	SSFL 230761	Report Basis:	Dry Weight
Sample ID:	HZBS0065S001 MS	Matrix:	Soil
		Weight / Volume:	12.77 Grams
		Solids / Lipids:	86.3 %
		Original pH :	NA
		Batch ID:	WG17142
Laboratory Information			
Project ID:	G341-583	Filename:	a08jun09b_11-7
Sample ID:	G341-583-23C	Retchk:	a08jun09b_10-9
Collection Date/Time:	24-Feb-09 11:39	Begin ConCal:	a08jun09b_10-9
Receipt Date:	03-Jun-09 10:05		
Extraction Date:	09-Jun-09		
Analysis Date:	12-Jun-09 21:12	Initial Cal:	m1613-100708a
Analyzed by:	<u>OS</u>	Reviewed by:	<u>TM</u>
Date:	<u>6-16-09</u>	Date:	<u>6-16-09</u>

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Method 1613
HZBS0065S001 MSD
 General Engineering Labs

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	Adj. RL (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8-TCDD	14.7	0.0167	0.869	30:42	0.74	
1,2,3,7,8-PeCDD	84.9	0.0424	4.35	33:45	1.58	
1,2,3,4,7,8-HxCDD	88.3	0.0704	4.35	36:16	1.24	
1,2,3,6,7,8-HxCDD	85.0	0.0657	4.35	36:21	1.27	
1,2,3,7,8,9-HxCDD	82.9	0.0683	4.35	36:36	1.25	
1,2,3,4,6,7,8-HpCDD	103	0.151	4.35	39:34	1.05	
OCDD	474	0.0678	8.69	43:43	0.89	
2,3,7,8-TCDF	15.4	0.0336	0.869	29:47	0.77	
1,2,3,7,8-PeCDF	86.8	0.162	4.35	32:59	1.60	
2,3,4,7,8-PeCDF	85.4	0.162	4.35	33:34	1.59	
1,2,3,4,7,8-HxCDF	86.9	0.111	4.35	35:36	1.32	
1,2,3,6,7,8-HxCDF	84.4	0.108	4.35	35:41	1.21	
2,3,4,6,7,8-HxCDF	86.4	0.117	4.35	36:10	1.25	
1,2,3,7,8,9-HxCDF	86.4	0.147	4.35	36:54	1.27	
1,2,3,4,6,7,8-HpCDF	87.1	0.121	4.35	38:22	1.04	
1,2,3,4,7,8,9-HpCDF	81.9	0.186	4.35	40:12	1.04	
OCDF	180	0.0516	8.69	43:58	0.9	

<u>Client Information</u>		<u>Sample Information</u>	
Project Name:	SSFL 230761	Report Basis:	Dry Weight
Sample ID:	HZBS0065S001 MSD	Matrix:	Soil
		Weight / Volume:	13.33 Grams
		Solids / Lipids:	86.3 %
		Original pH :	NA
		Batch ID:	WG17142
<u>Laboratory Information</u>			
Project ID:	G341-583	Filename:	a08jun09b_11-8
Sample ID:	G341-583-24B	Retchk:	a08jun09b_10-9
Collection Date/Time:	24-Feb-09 11:39	Begin ConCal:	a08jun09b_10-9
Receipt Date:	03-Jun-09 10:05	Initial Cal:	m1613-100708a
Extraction Date:	09-Jun-09		
Analysis Date:	12-Jun-09 22:00		

Method 1613
HZBS0065S001 MSD
 General Engineering Labs

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
¹³ C ₁₂ -2,3,7,8-TCDD	2	1.89	94.6	30:41	0.77	
¹³ C ₁₂ -1,2,3,7,8-PeCDD	2	2.03	102	33:44	1.62	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDD	2	1.86	92.9	36:16	1.25	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDD	2	2.07	103	36:21	1.27	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDD	2	1.79	89.4	39:33	1.07	
¹³ C ₁₂ -OCDD	4.00	2.79	69.8	43:42	0.88	
¹³ C ₁₂ -2,3,7,8-TCDF	2	1.92	96.2	29:46	0.80	
¹³ C ₁₂ -1,2,3,7,8-PeCDF	2	2.04	102	32:58	1.60	
¹³ C ₁₂ -2,3,4,7,8-PeCDF	2	2.00	100	33:34	1.60	
¹³ C ₁₂ -1,2,3,4,7,8-HxCDF	2	1.87	93.6	35:35	0.54	
¹³ C ₁₂ -1,2,3,6,7,8-HxCDF	2	1.97	98.7	35:40	0.50	
¹³ C ₁₂ -2,3,4,6,7,8-HxCDF	2	1.93	96.6	36:09	0.51	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDF	2	1.86	93.0	36:53	0.52	
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDF	2	1.75	87.4	38:22	0.44	
¹³ C ₁₂ -1,2,3,4,7,8,9-HpCDF	2	1.77	88.6	40:11	0.44	
Cleanup Standards						
³⁷ Cl ₄ -2,3,7,8-TCDD	0.400	0.385	96.3	30:42	-	
Injection Standards						
¹³ C ₁₂ -1,2,3,4-TCDD	2.00			29:56	0.79	
¹³ C ₁₂ -1,2,3,7,8,9-HxCDD	2.00			36:35	1.26	

Client Information		Sample Information	
Project Name:	SSFL 230761	Report Basis:	Dry Weight
Sample ID:	HZBS0065S001 MSD	Matrix:	Soil
		Weight / Volume:	13.33 Grams
		Solids / Lipids:	86.3 %
		Original pH :	NA
		Batch ID:	WG17142
Laboratory Information		Filename:	a08jun09b_11-8
Project ID:	G341-583	Retchk:	a08jun09b_10-9
Sample ID:	G341-583-24B	Begin ConCal:	a08jun09b_10-9
Collection Date/Time:	24-Feb-09 11:39	Initial Cal:	m1613-100708a
Receipt Date:	03-Jun-09 10:05		
Extraction Date:	09-Jun-09		
Analysis Date:	12-Jun-09 22:00		
Analyzed by: <u>DS</u>		Reviewed by: <u>JM</u>	
Date: <u>6-16-09</u>		Date: <u>6-16-09</u>	

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