Chain of Custody and Supporting Documentation

227874 H
~~227724~~ 041609

BOEING

CHAIN OF CUSTODY RECORD

COC #: MWHBM20090409_00

Page: 1 of 1

Customer Information		Project Information		Project Information			
Site:	SSFL	Client Name:	Boeing	Collector:	B. Martasin	Boeing PM:	
Company:	MWH	Sampling Event:	ISRA Sampling, Feb 2009	Contact #:			
Report to:	Sarah Von Raesfeld	Project Number:	1891614.050104				
Address:	2121 N. California Blvd	Project Manager:	Alex Fischl				
	Suite 600	PM Phone #:	(925) 627-4627				
	Walnut Creek	Field Contact:	Brian Martasin				
	CA	Field Contact #:	(323) 304-4969				
	94596	Lab Name:	GEL Laboratories, LLC				
Email:	sarah.vonraesfeld@mwhglobal.c	Lab Contact:	Cheryl Jones				
	sean.leffler@mwhglobal.com	Lab Address:	2040 Savage Road				
			Charleston, SC 29407				
		Lab Phone:	(843) 769-7388				

Sample Name	Matrix	Date	Time	No. of Containers	D2216 Moisture Soil	Dioxin by 1613B - Soil	Dioxin by 1613B - Water	Comments
CNBS0131S001	Soil	4/9/2009	14:35	2	H	H		
EBQW2207	Water	4/9/2009	9:40	2			H	
HZBS0105S001	Soil	4/9/2009	8:40	1	H	H		
HZBS0106S001	Soil	4/9/2009	8:20	1	H	H		
HZBS0106S002	Soil	4/9/2009	8:30	1	H	H		
HZBS0107D001	Soil	4/9/2009	0:00	1	H	H		
HZBS0107S001	Soil	4/9/2009	8:10	1	H	H		
HZBS0108S001	Soil	4/9/2009	14:45	2	H	H		

Requested Analyses

Instructions/TAT

Legend:
Numerical values for analyses equate to turn around time in days

H - Hold
EH - Extract/Extrude & Hold

Note: Values in the cells bellow are Turn Around Times.

1. Relinquished by:	Date:	2. Received by:	Date:	3. Relinquished by:	Date:	4. Received by:	Date:
B. O	4/9/09	Jacqueline A Jall	4/10/09				
Company: MWH	Time: 1545	Company: GEL	Time: 09:00	Company:	Time:	Company:	Time:

Comments:

Geotracker EDF ☐

Data Validation Package ☑ Level IV

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GEL | Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: SSFL - ISRA	**SDG/ARCOC/Work Order:** ~~227724~~ 227874H 20041609
Received By: JT	**Date Received:** 4/10/09

Suspected Hazard Information	**Yes**	**No**	*If Counts > x2 area background on samples not marked "radioactive", contact the Radiation Safety Group of further investigation.
COC/Samples marked as radioactive?		X	Maximum Counts Observed*: 40CPM
Classified Radioactive II or III by RSO?		X	
COC/Samples marked containing PCBs?		X	
Shipped as a DOT Hazardous?		X	Hazard Class Shipped: UN#:
Samples identified as Foreign Soil?		X	

	Sample Receipt Criteria	**Yes**	**NA**	**No**	**Comments/Qualifiers (Required for Non-Conforming Items)**
1	Shipping containers received intact and sealed?	X			Circle Applicable: seals broken damaged container leaking container other (describe)
2	Samples requiring cold preservation within 0 ≤ 6 deg. C?	X			Preservation Method: (ice bags) blue ice dry ice none other (describe) 5°
3	Chain of custody documents included with shipment?	X			
4	Sample containers intact and sealed?	X			Circle Applicable: seals broken damaged container leaking container other (describe)
5	Samples requiring chemical preservation at proper pH?		X		Sample ID's, containers affected and observed pH: If Preservation added, Lot#:
6	VOA vials free of headspace (defined as < 6mm bubble)?		X		Sample ID's and containers affected:
7	Are Encore containers present?			X	(If yes, immediately deliver to Volatiles laboratory)
8	Samples received within holding time?	X			Id's and tests affected:
9	Sample ID's on COC match ID's on bottles?	X			Sample ID's and containers affected:
10	Date & time on COC match date & time on bottles?	X			Sample ID's affected:
11	Number of containers received match number indicated on COC?	X			Sample ID's affected:
12	COC form is properly signed in relinquished/received sections?	X			

Comments:

Fedex 9457 3158 0731

PM (or PMA) review: Initials CAJ Date 4/10/09

GEL | Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: SSFL	**SDG/ARCOC/Work Order:** 227874
Received By: Ricky Albee	**Date Received:** 4/15/09

Suspected Hazard Information	Yes	No	*If Counts > x2 area background on samples not marked "radioactive", contact the Radiation Safety Group of further investigation.
COC/Samples marked as radioactive?		✓	Maximum Counts Observed*: 40 cpm
Classified Radioactive II or III by RSO?		✓	
COC/Samples marked containing PCBs?		✓	
Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#:
Samples identified as Foreign Soil?		✓	

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: seals broken damaged container leaking container other (describe)
2	Samples requiring cold preservation within 0 ≤ 6 deg. C?	✓			Preservation Method: (ice bags) blue ice dry ice none other (describe) 3°
3	Chain of custody documents included with shipment?			✓	samples being returned to GEL - No COC from SGS
4	Sample containers intact and sealed?	✓			Circle Applicable: seals broken damaged container leaking container other (describe)
5	Samples requiring chemical preservation at proper pH?		✓		Sample ID's, containers affected and observed pH: If Preservation added, Lot#:
6	VOA vials free of headspace (defined as < 6mm bubble)?		✓		Sample ID's and containers affected:
7	Are Encore containers present?			✓	(If yes, immediately deliver to Volatiles laboratory)
8	Samples received within holding time?	✓			Id's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			Sample ID's and containers affected: COC already at GEL
10	Date & time on COC match date & time on bottles?	✓			Sample ID's affected:
11	Number of containers received match number indicated on COC?	✓			Sample ID's affected:
12	COC form is properly signed in relinquished/received sections?			✓	

Comments: UPS 1Z 209 44R 01 4174 6895

SGS returned (1) container for each sample (CNBSD1315001, EBQW2207) to GEL for analysis. CAP 4/15/09

PM (or PMA) review: Initials CAP Date 4/15/09

2278744

~~276106~~ JT 4/14/10

BOEING

CHAIN OF CUSTODY RECORD

COC #: MWHAL20090224_00

Customer Information		Project Information	
Site:	SSFL	Client Name:	Boeing
Company:	MWH	Sampling Event:	ISRA Sampling, Feb 2009
Report to:	Sarah Von Raesfeld	Project Number:	1891614.050104
Address:	2121 N. California Blvd	Project Manager:	Alex Fischl
	Suite 600	PM Phone #:	(925) 627-4627
	Walnut Creek	Field Contact:	Brian Martasin
	CA	Field Contact #:	(323) 304-4969
	94596	Lab Name:	GEL Laboratories, LLC
Email:	sarah.vonraesfeld@mwhglobal.c	Lab Contact:	Cheryl Jones
	sean.leffler@mwhglobal.com	Lab Address:	2040 Savage Road
			Charleston, SC 29407
		Lab Phone:	(843) 769-7388

Project Information			
Collector:	A. Leavitt	Boeing PM:	
Contact #:			

Sample Name	Matrix	Date	Time	No. of Containers	D2216 Moisture Soil	Dioxin by 1613B - Soil	Dioxin by 1613B - Water	Metals 6020 Cd Water	Metals 6020 Cu Water	Metals 6020 Soil Arsenic	Metals 6020 Soil Cadmium	Metals 6020 Soil Copper	Metals 6020 Soil Lead	Metals 6020 Soil Zinc	Metals 6020 Water Arsenic	Metals 6020 Water Lead	Metals 6020 Water Zn			Comments
EBQW2204	Water	2/24/2009	15:15	3			10	10	10						10	10	10			
FBQW2229	Water	2/24/2009	15:00	3			10	10	10						10	10	10			Batch # 010709007WF173
HZBS0062S001	Soil	2/24/2009	11:01	1	10								10							
HZBS0063S001	Soil	2/24/2009	11:48	1	10								10							
HZBS0064S001	Soil	2/24/2009	10:28	2	10	H							10							
HZBS0065S001	Soil	2/24/2009	11:39	1	10								10							MS/MSD
HZBS0067D001	Soil	2/24/2009	0:00	1	10	10														
HZBS0067S001	Soil	2/24/2009	8:20	1	10	10														
HZBS0070S001	Soil	2/24/2009	14:45	2	10	10					10		10	10						
HZBS0073S001	Soil	2/24/2009	8:47	2	10	10							10							MS/MSD

Requested Analyses

Instructions/TAT

Legend:
Numerical values for analyses equate to turn around time in days

H - Hold
EH - Extract/Extrude & Hold

Note: Values in the cells bellow are Turn Around Times.

1. Relinquished by:	Date:	2. Received by:	Date:	3. Relinquished by:	Date:	4. Received by:	Date:
	2/24/09		2/25/09				
Company: MWH	Time: 1615	Company: GEL	Time: 0840	Company:	Time:	Company:	Time:

Comments:

Geotracker EDF ☐

Data Validation Package ☑ Level IV

227874H
~~225106~~ JT 4/14/09

BOEING

CHAIN OF CUSTODY RECORD

COC #: MWHAL20090224_00

Page: 2 of 3

Customer Information		Project Information	
Site:	SSFL	Client Name:	Boeing
Company:	MWH	Sampling Event:	ISRA Sampling, Feb 2009
Report to:	Sarah Von Raesfeld	Project Number:	1891614.050104
Address:	2121 N. California Blvd	Project Manager:	Alex Fischl
	Suite 600	PM Phone #:	(925) 627-4627
	Walnut Creek	Field Contact:	Brian Martasin
	CA	Field Contact #:	(323) 304-4969
	94596	Lab Name:	GEL Laboratories, LLC
Email:	sarah.vonraesfeld@mwhglobal.c	Lab Contact:	Cheryl Jones
	sean.leffler@mwhglobal.com	Lab Address:	2040 Savage Road
			Charleston, SC 29407
		Lab Phone:	(843) 769-7388

Project Information			
Collector:	A. Leavitt	Boeing PM:	
Contact #:			

Sample Name	Matrix	Date	Time	No. of Containers	D2216 Moisture Soil	Dioxin by 1613B - Soil	Dioxin by 1613B - Water	Metals 6020 Cd Water	Metals 6020 Cu Water	Metals 6020 Soil Arsenic	Metals 6020 Soil Cadmium	Metals 6020 Soil Copper	Metals 6020 Soil Lead	Metals 6020 Soil Zinc	Metals 6020 Water Arsenic	Metals 6020 Water Lead	Metals 6020 Zn Water			Comments
✓ HZBS0079S001	Soil	2/24/2009	9:21	2	H	10							H							
✓ HZBS0086S001	Soil	2/24/2009	13:50	1	10					10	10	10	10							
✓ HZBS0087S001	Soil	2/24/2009	13:18	1	10					10	10	10	10							
✓ HZBS0088D001	Soil	2/24/2009	0:00	1	10					10	10	10	10	10						
✓ HZBS0088S001	Soil	2/24/2009	13:59	1	10					10	10	10	10	10						
✓ HZBS0089S001	Soil	2/24/2009	10:51	2	10	10							10							
✓ HZBS0090S001	Soil	2/24/2009	10:09	2	10	10							10	10						
✓ HZBS0091S001	Soil	2/24/2009	11:13	1	10								10							
✓ HZBS0093S001	Soil	2/24/2009	13:33	1	10					10	10	10	10							
✓ HZBS0094S001	Soil	2/24/2009	12:58	2	10					10	10	10	10							MS/MSD

Requested Analyses

Instructions/TAT

Legend:
Numerical values for analyses equate to turn around time in days

H - Hold
EH - Extract/Extrude & Hold

Note: Values in the cells bellow are Turn Around Times.

1. Relinquished by:	Date:	2. Received by:	Date:	3. Relinquished by:	Date:	4. Received by:	Date:
	2/24/09		2/25/09				
Company: MWH	Time: 1615	Company: GEL	Time: 0840	Company:	Time:	Company:	Time:

Comments:

Geotracker EDF ☐

Data Validation Package ☑ Level IV

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227874H

CHAIN OF CUSTODY RECORD

COC #: MWHAL20090224_00

Page: 3 of 3

Customer Information		Project Information		Project Information			
Site:	SSFL	Client Name:	Boeing	Collector:	A. Leavitt	Boeing PM:	
Company:	MWH	Sampling Event:	ISRA Sampling, Feb 2009	Contact #:			
Report to:	Sarah Von Raesfeld	Project Number:	169161.4.050104	Requested Analyses			Instructions/TAT
Address:	2121 N. Californie Blvd	Project Manager:	Alex Fischl				Legend: Numerical values for analyses equate to turn around time in days H - Hold EH - Extract/Extrude & Hold Note: Values in the cells below are Turn Around Times.
	Suite 800	PM Phone #:	(925) 627-4627				
	Walnut Creek	Field Contact:	Brian Mariasin				
	CA	Field Contact #:	(323) 304-4969				
	94596	Lab Name:	GEL Laboratories, LLC				
Email:	sarah.vonraesfeld@mwhglobal.c	Lab Contact:	Cheryl Jones				
	sean.leffler@mwhglobal.com	Lab Address:	2040 Savage Road				
			Charleston, SC 29407				
		Lab Phone:	(843) 769-7366				

Sample Name	Matrix	Date	Time	No. of Containers	D2216 Moisture Soil	Dioxin by 1613B - Soil	Dioxin by 1613B - Water	Metals 6020 Cd Water	Metals 6020 Cu Water	Metals 6020 Soil Arsenic	Metals 6020 Soil Cadmium	Metals 6020 Soil Copper	Metals 6020 Soil Lead	Metals 6020 Soil Zinc	Metals 6020 Water Arsenic	Metals 6020 Water Lead	Metals 6020 Zn Water			Comments
HZBS0085S001	Soil	2/24/2009	13:40	1	10					10	10	10	10							

1. Relinquished by:	Date:	2. Received by:	Date:	3. Relinquished by:	Date:	4. Received by:	Date:
	2/24/09		2/25/09				
Company: MWH	Time: 1615	Company: GEL	Time: 0840	Company:	Time:	Company:	Time:

Comments:

Geotracker EDF ☐

Data Validation Package ☑ Level IV

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GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

227874H

Client: SSFL	**SDG/ARCOC/Work Order:** ~~225106~~ JT 4/14/09
Received By: Ricky Albee	**Date Received:** 2/25/09

Suspected Hazard Information	Yes	No	*If Counts > x2 area background on samples not marked "radioactive", contact the Radiation Safety Group of further investigation.
COC/Samples marked as radioactive?		✓	Maximum Counts Observed*: 60 CPM
Classified Radioactive II or III by RSO?		✓	
COC/Samples marked containing PCBs?		✓	
Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#:
Samples identified as Foreign Soil?		✓	

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: seals broken damaged container leaking container other (describe)
2	Samples requiring cold preservation within 0 ≤ 6 deg. C?	✓			Preservation Method: (ice bags) blue ice dry ice none other (describe) 3°C, 4°C
3	Chain of custody documents included with shipment?	✓			
4	Sample containers intact and sealed?	✓			Circle Applicable: seals broken damaged container leaking container other (describe)
5	Samples requiring chemical preservation at proper pH?	✓			Sample ID's, containers affected and observed pH: If Preservation added, Lot#:
6	VOA vials free of headspace (defined as < 6mm bubble)?		✓		Sample ID's and containers affected:
7	Are Encore containers present?			✓	(If yes, immediately deliver to Volatiles laboratory)
8	Samples received within holding time?	✓			Id's and tests affected:
9	Sample ID's on COC match ID's on bottles?			✓	Sample ID's and containers affected: See comments
10	Date & time on COC match date & time on bottles?	✓			Sample ID's affected:
11	Number of containers received match number indicated on COC?	✓			Sample ID's affected:
12	COC form is properly signed in relinquished/received sections?	✓			

Comments: FedEx 9457 3158 4163-3°C
9457 3158 4174-4°C

* Did not receive HZBS009050015P (page 3 of coc)
Received HZBS009550001, not on coc. 1 container, collected 2/24/09 @ 1340

PM (or PMA) review: Initials JT Date 2/25/09

227874 H
~~225170~~ JT 4/14/09

BOEING

CHAIN OF CUSTODY RECORD

COC #: MWHAL20090225_00

Page: 1 of 3

Customer Information		Project Information	
Site:	SSFL	Client Name:	Boeing
Company:	MWH	Sampling Event:	ISRA Sampling, Feb 2009
Report to:	Sarah Von Raesfeld	Project Number:	1891614.050104
Address:	2121 N. California Blvd	Project Manager:	Alex Fischl
	Suite 600	PM Phone #:	(925) 627-4627
	Walnut Creek	Field Contact:	Brian Martasin
	CA	Field Contact #:	(323) 304-4969
	94596	Lab Name:	GEL Laboratories, LLC
Email:	sarah.vonraesfeld@mwhglobal.c	Lab Contact:	Cheryl Jones
	sean.leffler@mwhglobal.com	Lab Address:	2040 Savage Road
			Charleston, SC 29407
		Lab Phone:	(843) 769-7388

Project Information			
Collector:	A. Leavitt	Boeing PM:	
Contact #:			

	Sample Name	Matrix	Date	Time	No. of Containers	D2216 Moisture Soil	Dioxin by 1613B - Soil	Dioxin by 1613B - Water	Metals 6020 Cd Water	Metals 6020 Cu Water	Metals 6020 Soil Arsenic	Metals 6020 Soil Cadmium	Metals 6020 Soil Copper	Metals 6020 Soil Lead	Metals 6020 Soil Zinc	Metals 6020 Water Arsenic	Metals 6020 Water Lead	Metals 6020 Zn Water			Comments
✓	CNBS0089S001	Soil	2/25/2009	14:35	1	10								10							
✓	CNBS0090S001	Soil	2/25/2009	14:38	1	10								10							
✓	CNBS0091S001	Soil	2/25/2009	14:44	1	10								10							
✓	CNBS0128S001	Soil	2/25/2009	14:00	2	10	H					10	10	10	10						
✓	CNBS0129S001	Soil	2/25/2009	14:10	2	10	H					10	10	10	10						
✓	CNBS0130S001	Soil	2/25/2009	14:17	2	10	H					10	10	10	10						
✓	EBQW2205	Water	2/25/2009	15:00	3			10	10	10						10	10	10			
✓	HZBS0068S001	Soil	2/25/2009	12:58	2	10	H					10		10	10						
✓	HZBS0069S001	Soil	2/25/2009	12:51	1	10						10		10	10						MS/MSD
✓	HZBS0071S001	Soil	2/25/2009	13:06	1	10						10		10	10						

Requested Analyses

Instructions/TAT

Legend:
Numerical values for analyses equate to turn around time in days

H - Hold
EH - Extract/Extrude & Hold

Note: Values in the cells bellow are Turn Around Times.

1. Relinquished by:	Date:	2. Received by:	Date:	3. Relinquished by:	Date:	4. Received by:	Date:
	2/25/09		2/26/09				
Company: MWH	Time: 1630	Company: GEL	Time: 0845	Company:	Time:	Company:	Time:

Comments:

Geotracker EDF

Data Validation Package ✓ Level IV

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227874H
~~225704~~ JT 4/14/09

BOEING

CHAIN OF CUSTODY RECORD

COC #: MWHAL20090225_00

Customer Information		Project Information		Project Information			
Site:	SSFL	Client Name:	Boeing	Collector:	A. Leavitt	Boeing PM:	
Company:	MWH	Sampling Event:	ISRA Sampling, Feb 2009	Contact #:			
Report to:	Sarah Von Raesfeld	Project Number:	1891614.050104				
Address:	2121 N. California Blvd	Project Manager:	Alex Fischl				
	Suite 600	PM Phone #:	(925) 627-4627				
	Walnut Creek	Field Contact:	Brian Martasin				
	CA	Field Contact #:	(323) 304-4969				
	94596	Lab Name:	GEL Laboratories, LLC				
Email:	sarah.vonraesfeld@mwhglobal.c	Lab Contact:	Cheryl Jones				
	sean.leffler@mwhglobal.com	Lab Address:	2040 Savage Road				
			Charleston, SC 29407				
		Lab Phone:	(843) 769-7388				

	Sample Name	Matrix	Date	Time	No. of Containers	D2216 Moisture Soil	Dioxin by 1613B - Soil	Dioxin by 1613B - Water	Metals 6020 Cd Water	Metals 6020 Cu Water	Metals 6020 Soil Arsenic	Metals 6020 Soil Cadmium	Metals 6020 Soil Copper	Metals 6020 Soil Lead	Metals 6020 Soil Zinc	Metals 6020 Water Arsenic	Metals 6020 Water Lead	Metals 6020 Zn Water			Comments
✓	HZBS0072S001	Soil	2/25/2009	12:42	1	10						10		10	10						
✓	HZBS0074S001	Soil	2/25/2009	11:52	1	10								10							
✓	HZBS0075S001	Soil	2/25/2009	13:40	1	H								H							
✓	HZBS0076S001	Soil	2/25/2009	10:39	1	10								10							
✓	HZBS0077S001	Soil	2/25/2009	10:16	2	H	H							H							
✓	HZBS0078S001	Soil	2/25/2009	10:28	1	10								10							
✓	HZBS0080S001	Soil	2/25/2009	10:02	1	10								10							
✓	HZBS0081S001	Soil	2/25/2009	9:42	2	H	H							H							
✓	HZBS0082S001	Soil	2/25/2009	9:00	1	10								10							
✓	HZBS0082S002	Soil	2/25/2009	9:08	1	H								H							

Requested Analyses

Instructions/TAT

Legend:
Numerical values for analyses equate to turn around time in days

H - Hold
EH - Extract/Extrude & Hold

Note: Values in the cells bellow are Turn Around Times.

1. Relinquished by:	Date:	2. Received by:	Date:	3. Relinquished by:	Date:	4. Received by:	Date:
	2/25/09		2/26/09				
Company: MWH	Time: 1630	Company: GEL	Time: 0845	Company:	Time:	Company:	Time:

Comments:

Geotracker EDF

Data Validation Package ✓ Level IV

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227874H

~~225170~~ JT 4114109

BOEING

CHAIN OF CUSTODY RECORD

COC #: MWHAL20090225_00

Customer Information		Project Information	
Site:	SSFL	Client Name:	Boeing
Company:	MWH	Sampling Event:	ISRA Sampling, Feb 2009
Report to:	Sarah Von Raesfeld	Project Number:	1891614.050104
Address:	2121 N. California Blvd	Project Manager:	Alex Fischl
	Suite 600	PM Phone #:	(925) 627-4627
	Walnut Creek	Field Contact:	Brian Martasin
	CA	Field Contact #:	(323) 304-4969
	94596	Lab Name:	GEL Laboratories, LLC
Email:	sarah.vonraesfeld@mwhglobal.c	Lab Contact:	Cheryl Jones
	sean.leffler@mwhglobal.com	Lab Address:	2040 Savage Road
			Charleston, SC 29407
		Lab Phone:	(843) 769-7388

Project Information			
Collector:	A. Leavitt	Boeing PM:	
Contact #:			

Sample Name	Matrix	Date	Time	No. of Containers	D2216 Moisture Soil	Dioxin by 1613B - Soil	Dioxin by 1613B - Water	Metals 6020 Cd Water	Metals 6020 Cu Water	Metals 6020 Soil Arsenic	Metals 6020 Soil Cadmium	Metals 6020 Soil Copper	Metals 6020 Soil Lead	Metals 6020 Soil Zinc	Metals 6020 Water Arsenic	Metals 6020 Water Lead	Metals 6020 Zn Water			Comments
✓ HZBS0083S001	Soil	2/25/2009	8:51	1	H								H							
✓ HZBS0084S001	Soil	2/25/2009	8:40	1	10								10							
✓ HZBS0085S001	Soil	2/25/2009	12:00	1	10					10	10	10	10							
✓ HZBS0092S001	Soil	2/25/2009	8:13	1	10					10	10	10	10							
✓ HZBS0096S001	Soil	2/25/2009	11:45	1	10								10							
✓ HZBS0097S001	Soil	2/25/2009	12:11	1	10								10							

Requested Analyses

Instructions/TAT

Legend:
Numerical values for analyses equate to turn around time in days

H - Hold
EH - Extract/Extrude & Hold

Note: Values in the cells bellow are Turn Around Times.

1. Relinquished by:	Date:	2. Received by:	Date:	3. Relinquished by:	Date:	4. Received by:	Date:
	2/25/09		2/26/09				
Company: MWH	Time: 1630	Company: GEL	Time: 0845	Company:	Time:	Company:	Time:

Comments:

Geotracker EDF

Data Validation Package ✓ Level IV

GEL | Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

2278744

Client: SSFL	**SDG/ARCOC/Work Order:** ~~225170~~ JT 4114109
Received By: Ricky Albee	**Date Received:** 2/26/09

Suspected Hazard Information	Yes	No	*If Counts > x2 area background on samples not marked "radioactive", contact the Radiation Safety Group of further investigation.
COC/Samples marked as radioactive?		✓	Maximum Counts Observed*: 60 CPM
Classified Radioactive II or III by RSO?		✓	
COC/Samples marked containing PCBs?		✓	
Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#:
Samples identified as Foreign Soil?		✓	

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: seals broken damaged container leaking container other (describe)
2	Samples requiring cold preservation within 0 ≤ 6 deg. C?	✓			Preservation Method: (ice bags) blue ice dry ice none other (describe) 1°C, 3°C
3	Chain of custody documents included with shipment?	✓			
4	Sample containers intact and sealed?	✓			Circle Applicable: seals broken damaged container leaking container other (describe)
5	Samples requiring chemical preservation at proper pH?	✓			Sample ID's, containers affected and observed pH: If Preservation added, Lot#:
6	VOA vials free of headspace (defined as < 6mm bubble)?		✓		Sample ID's and containers affected:
7	Are Encore containers present?			✓	(If yes, immediately deliver to Volatiles laboratory)
8	Samples received within holding time?	✓			Id's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			Sample ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Sample ID's affected:
11	Number of containers received match number indicated on COC?	✓			Sample ID's affected:
12	COC form is properly signed in relinquished/received sections?	✓			

Comments: FedEx 9457 3158 4196-3°C
9457 3158 4185-1°C

PM (or PMA) review: Initials CAJ Date 2/26/09

Subject: ISRA Hold Samples
From: Sarah Von Raesfeld <Sarah.E.VonRaesfeld@us.mwhglobal.com>
Date: Tue, 14 Apr 2009 08:11:51 -0600
To: Cheryl Jones <cj@gel.com>, Jackie Trudell <jacqueline.trudell@gel.com>

Hi Cheryl,

Please analyze the hold samples listed below. We would like the samples highlighted in yellow run on a 5 day TAT (if possible), the rest of the samples can be run on a standard TAT.

Also, please log all of these samples into the same SDG.

Thanks,
Sarah

MWH

BUILDING A BETTER WORLD

Sarah Von Raesfeld
Environmental Chemist
MWH Americas, Inc.
2121 N. California Blvd.
Suite 600
Walnut Creek, California 94596

Telephone: 925 627 4500
Direct Line: 925 627 4654
Facsimile: 925 627 4501

From: Alexander Fischl
Sent: Monday, April 13, 2009 5:10 PM
To: Sarah Von Raesfeld
Subject: RE: ISRA hold samples

Sarah,

Please request the following analyses:

CNBS0131S001	copper, lead, dioxins
HZBS0105S001	dioxins
HZBS0106S001	dioxins
HZBS0106S002	dioxins
HZBS0107D001	dioxins
HZBS0107S001	dioxins
EBQW2207	dioxins, lead, copper
HZBS0062S001	copper, dioxins
HZBS0069S001	copper, dioxins
HZBS0080S001	copper, dioxins

HZBS0082S001	copper, dioxins
HZBS0084S001	copper, dioxins

Thanks,
Alex Fischl
MWH - Walnut Creek Office
925-627-4627

Requesting Firm: MWH
Address: 2121 No. California Blvd.
Walnut Creek, CA 94596
Phone: 925-627-4654
Fax: 925-627-4501
E-mail:Sarah.VonRaesfeld@mwhglobal.com

Date: 04/14/09

To: Cheryl Jones **Phone: 843-769-7388**

Laboratory GEL Laboratories, LLC **E-mail: cj@gel.com**

From: Sarah Von Raesfeld

Requestor signature:

Subject: **Chain-of-Custody Form Analytical Request Change** **No. of Pages: 8**

Per Request:
Please make the changes listed below to the chain-of-custody analytical request form. Include this form with the final deliverables for these samples.

COC No.	Client Sample ID(s)	Date Collected	Originally Requested Analyses	Change (s) and Method (s) Now Requested
MWHAL20090224_00	HZBS0062S001	02/24/09		Run dioxins and copper
MWHAL20090225_00	HZBS0069S001	02/25/09		Run dioxins and copper
MWHAL20090225_00	HZBS0080S001	02/25/09		Run dioxins and copper
MWHAL20090225_00	HZBS0082S001	02/25/09		Run dioxins and copper
MWHAL20090225_00	HZBS0084S001	02/25/09		Run dioxins and copper
MWHBM20090409_00	EBQW2207	04/09/09		Run dioxins, copper, and lead
MWHBM20090409_00	CNBS0131S001	04/09/09		Run dioxins, copper, lead, and % moisture
MWHBM20090409_00	HZBS0105S001 HZBS0106S001 HZBS0106S002 HZBS0107S001 HZBS0107D001	04/09/09		Run dioxins and % moisture

The reason for these changes:

Incorrectly marked on COC form _____

Lack of sample volume _____

Change in analytical request *X*

Other: _____

Thank you

BOEING

CHAIN OF CUSTODY RECORD

COC #: 225106 MWHAL20090224_00

Page: 1 of 3

Customer Information		Project Information		Project Information			
Site:	SSFL	Client Name:	Boeing	Collector:	A. Leavitt	Boeing PM:	
Company:	MWH	Sampling Event:	ISRA Sampling, Feb 2009	Contact #:			
Report to:	Sarah Von Raesfeld	Project Number:	1891614.050104				
Address:	2121 N. California Blvd	Project Manager:	Alex Fischl				
	Suite 600	PM Phone #:	(925) 627-4627				
	Walnut Creek	Field Contact:	Brian Martasin				
	CA	Field Contact #:	(323) 304-4969				
	94596	Lab Name:	GEL Laboratories, LLC				
Email:	sarah.vonraesfeld@mwhglobal.c	Lab Contact:	Cheryl Jones				
	sean.leffler@mwhglobal.com	Lab Address:	2040 Savage Road				
			Charleston, SC 29407				
		Lab Phone:	(843) 769-7388				

Requested Analyses

Sample Name	Matrix	Date	Time	No. of Containers	D2216 Moisture Soil	Dioxin by 1613B - Soil	Dioxin by 1613B - Water	Metals 6020 Cd Water	Metals 6020 Cu Water	Metals 6020 Soil Arsenic	Metals 6020 Soil Cadmium	Metals 6020 Soil Copper	Metals 6020 Soil Lead	Metals 6020 Soil Zinc	Metals 6020 Water Arsenic	Metals 6020 Water Lead	Metals 6020 Water Zn		Comments
EBQW2204	Water	2/24/2009	15:15	3			10	10	10						10	10	10		
FBQW2229	Water	2/24/2009	15:00	3			10	10	10						10	10	10		Batch # 010709007WF173
HZBS0062S001	Soil	2/24/2009	11:01	1	10	10 (3)						10 (5)	10						
HZBS0063S001	Soil	2/24/2009	11:48	1	10								10						
HZBS0064S001	Soil	2/24/2009	10:28	2	10	H							10						
HZBS0065S001	Soil	2/24/2009	11:39	1	10								10						MS/MSD
HZBS0067D001	Soil	2/24/2009	0:00	1	10	10													
HZBS0067S001	Soil	2/24/2009	8:20	1	10	10													
HZBS0070S001	Soil	2/24/2009	14:45	2	10	10					10		10	10					
HZBS0073S001	Soil	2/24/2009	8:47	2	10	10							10						MS/MSD

Instructions/TAT

Legend:
Numerical values for analyses equate to turn around time in days

H - Hold
EH - Extract/Extrude & Hold

Note: Values in the cells bellow are Turn Around Times.

1. Relinquished by:	Date:	2. Received by:	Date:	3. Relinquished by:	Date:	4. Received by:	Date:
	2/24/09		2/25/09				
Company: MWH	Time: 1615	Company: GEL	Time: 0840	Company:	Time:	Company:	Time:

Comments:

Geotracker EDF ☐

Data Validation Package ☑ Level IV

(3) SVR 04/14/09

19

BOEING

CHAIN OF CUSTODY RECORD

225106

COC #: MWHAL20090224_00

Customer Information		Project Information		Project Information			
Site:	SSFL	Client Name:	Boeing	Collector:	A. Leavitt	Boeing PM:	
Company:	MWH	Sampling Event:	ISRA Sampling, Feb 2009	Contact #:			
Report to:	Sarah Von Raesfeld	Project Number:	1891614.050104				
Address:	2121 N. California Blvd	Project Manager:	Alex Fischl				
	Suite 600	PM Phone #:	(925) 627-4627				
	Walnut Creek	Field Contact:	Brian Martasin				
	CA	Field Contact #:	(323) 304-4969				
	94596	Lab Name:	GEL Laboratories, LLC				
Email:	sarah.vonraesfeld@mwhglobal.c	Lab Contact:	Cheryl Jones				
	sean.leffler@mwhglobal.com	Lab Address:	2040 Savage Road				
			Charleston, SC 29407				
		Lab Phone:	(843) 769-7388				

	Sample Name	Matrix	Date	Time	No. of Containers	D2216 Moisture Soil	Dioxin by 1613B - Soil	Dioxin by 1613B - Water	Metals 6020 Cd Water	Metals 6020 Cu Water	Metals 6020 Soil Arsenic	Metals 6020 Soil Cadmium	Metals 6020 Soil Copper	Metals 6020 Soil Lead	Metals 6020 Soil Zinc	Metals 6020 Water Arsenic	Metals 6020 Water Lead	Metals 6020 Zn Water			Comments
✓	HZBS0079S001	Soil	2/24/2009	9:21	2	10	10							10							
✓	HZBS0086S001	Soil	2/24/2009	13:50	1	10					10	10	10	10							
✓	HZBS0087S001	Soil	2/24/2009	13:18	1	10					10	10	10	10							
✓	HZBS0088D001	Soil	2/24/2009	0:00	1	10					10	10	10	10	10						
✓	HZBS0088S001	Soil	2/24/2009	13:59	1	10					10	10	10	10	10						
✓	HZBS0089S001	Soil	2/24/2009	10:51	2	10	10							10							
✓	HZBS0090S001	Soil	2/24/2009	10:09	2	10	10							10	10						
✓	HZBS0091S001	Soil	2/24/2009	11:13	1	10								10							
✓	HZBS0093S001	Soil	2/24/2009	13:33	1	10					10	10	10	10							
✓	HZBS0094S001	Soil	2/24/2009	12:58	2	10 (1)	10 (2)			10	H	H	H	H							MS/MSD

Legend:
Numerical values for analyses equate to turn around time in days

H - Hold
EH - Extract/Extrude & Hold

Note: Values in the cells bellow are Turn Around Times.

1. Relinquished by:	Date:	2. Received by:	Date:	3. Relinquished by:	Date:	4. Received by:	Date:
	2/24/09		2/25/09				
Company: MWH	Time: 1615	Company: GEL	Time: 0840	Company:	Time:	Company:	Time:

Comments:

Geotracker EDF ☐

Data Validation Package ☑ Level IV

(1) SVR 02/26/09

(2) SVR 03/23/09

225170%

BOEING

CHAIN OF CUSTODY RECORD

COC #: MWHAL20090225_00

Page: 3 of 3

Customer Information	
Site:	SSFL
Company:	MWH
Report to:	Sarah Von Raesfeld
Address:	2121 N. California Blvd
	Suite 600
	Walnut Creek
	CA
	94596
Email:	sarah.vonraesfeld@mwhglobal.c
	sean.leffler@mwhglobal.com

Project Information	
Client Name:	Boeing
Sampling Event:	ISRA Sampling, Feb 2009
Project Number:	1891614.050104
Project Manager:	Alex Fischl
PM Phone #:	(925) 627-4627
Field Contact:	Brian Martasin
Field Contact #:	(323) 304-4969
Lab Name:	GEL Laboratories, LLC
Lab Contact:	Cheryl Jones
Lab Address:	2040 Savage Road
	Charleston, SC 29407
Lab Phone:	(843) 769-7388

Project Information			
Collector:	A. Leavitt	Boeing PM:	
Contact #:			

Requested Analyses

Sample Name	Matrix	Date	Time	No. of Containers	D2216 Moisture Soil	Dioxin by 1613B - Soil	Dioxin by 1613B - Water	Metals 6020 Cd Water	Metals 6020 Cu Water	Metals 6020 Soil Arsenic	Metals 6020 Soil Cadmium	Metals 6020 Soil Copper	Metals 6020 Soil Lead	Metals 6020 Soil Zinc	Metals 6020 Water Arsenic	Metals 6020 Water Lead	Metals 6020 Zn Water			Comments
✓ HZBS0083S001	Soil	2/25/2009	8:51	1	H								H							
✓ HZBS0084S001	Soil	2/25/2009	8:40	1	10								10							
✓ HZBS0085S001	Soil	2/25/2009	12:00	1	10					10	10	10	10							
✓ HZBS0092S001	Soil	2/25/2009	8:13	1	10					10	10	10	10							
✓ HZBS0096S001	Soil	2/25/2009	11:45	1	19 (1)								HD							
✓ HZBS0097S001	Soil	2/25/2009	12:11	1	10								10							

Instructions/TAT

Legend:
Numerical values for analyses equate to turn around time in days

H - Hold
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Note: Values in the cells bellow are Turn Around Times.

1. Relinquished by:	Date:	2. Received by:	Date:	3. Relinquished by:	Date:	4. Received by:	Date:
	2/25/09		2/26/09				
Company: MWH	Time: 1630	Company: GEL	Time: 0845	Company:	Time:	Company:	Time:

Comments:

Geotracker EDF

Data Validation Package ✓ Level IV

(1) SNR 02/26/09

225170%

CHAIN OF CUSTODY RECORD

COC #: MWHAL20090225_00

Page: 1 of 3

Customer Information

Site:	SSFL
Company:	MWH
Report to:	Sarah Von Raesfeld
Address:	2121 N. California Blvd
	Suite 600
	Walnut Creek
	CA
	94596
Email:	sarah.vonraesfeld@mwhglobal.c
	sean.leffler@mwhglobal.com

Project Information

Client Name:	Boeing
Sampling Event:	ISRA Sampling, Feb 2009
Project Number:	1891614.050104
Project Manager:	Alex Fischl
PM Phone #:	(925) 627-4627
Field Contact:	Brian Martasin
Field Contact #:	(323) 304-4969
Lab Name:	GEL Laboratories, LLC
Lab Contact:	Cheryl Jones
Lab Address:	2040 Savage Road
	Charleston, SC 29407
Lab Phone:	(843) 769-7388

Project Information

Collector: A. Leavitt

Boeing PM:

Contact #:

Requested Analyses

Sample Name	Matrix	Date	Time	No. of Containers	D2216 Moisture Soil	Dioxin by 1613B - Soil	Dioxin by 1613B - Water	Metals 6020 Cd Water	Metals 6020 Cu Water	Metals 6020 Soil Arsenic	Metals 6020 Soil Cadmium	Metals 6020 Soil Copper	Metals 6020 Soil Lead	Metals 6020 Soil Zinc	Metals 6020 Water Arsenic	Metals 6020 Water Lead	Metals 6020 Zn Water	Comments
✓ CNBS0089S001	Soil	2/25/2009	14:35	1	10								10					
✓ CNBS0090S001	Soil	2/25/2009	14:38	1	10								10					
✓ CNBS0091S001	Soil	2/25/2009	14:44	1	10	10 (2)							10					
✓ CNBS0128S001	Soil	2/25/2009	14:00	2	10	10 (2)					10	10	10	10				
✓ CNBS0129S001	Soil	2/25/2009	14:10	2	10	H					10	10	10	10				
✓ CNBS0130S001	Soil	2/25/2009	14:17	2	10	H					10	10	10	10				
✓ EBQW2205	Water	2/25/2009	15:00	3			10	10	10						10	10	10	
✓ HZBS0068S001	Soil	2/25/2009	12:58	2	10	H					10	(3)	10	10				
✓ HZBS0069S001	Soil	2/25/2009	12:51	1	10	10 (3)					10	10	10	10				MS/MSD
✓ HZBS0071S001	Soil	2/25/2009	13:06	1	10						10		10	10				

Instructions/TAT

Legend:
Numerical values for analyses equate to turn around time in days

H - Hold
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Note: Values in the cells bellow are Turn Around Times.

1. Relinquished by:	Date:	2. Received by:	Date:	3. Relinquished by:	Date:	4. Received by:	Date:
B R O	2/25/09	Richard Adler	2/26/09				
Company: MWH	Time: 1630	Company: GEL	Time: 0845	Company:	Time:	Company:	Time:

Comments:

Geotracker EDF

Data Validation Package ✓ Level IV

(2) SVR 03/23/09

(3) SVR 04/14/09

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225170Y

BOEING

CHAIN OF CUSTODY RECORD

COC #: MWHAL20090225_00

Page: 2 of 3

Customer Information		Project Information	
Site:	SSFL	Client Name:	Boeing
Company:	MWH	Sampling Event:	ISRA Sampling, Feb 2009
Report to:	Sarah Von Raesfeld	Project Number:	1891614.050104
Address:	2121 N. California Blvd	Project Manager:	Alex Fischl
	Suite 600	PM Phone #:	(925) 627-4627
	Walnut Creek	Field Contact:	Brian Martasin
	CA	Field Contact #:	(323) 304-4969
	94596	Lab Name:	GEL Laboratories, LLC
Email:	sarah.vonraesfeld@mwhglobal.c	Lab Contact:	Cheryl Jones
	sean.leffler@mwhglobal.com	Lab Address:	2040 Savage Road
			Charleston, SC 29407
		Lab Phone:	(843) 769-7388

Project Information			
Collector:	A. Leavitt	Boeing PM:	
Contact #:			

Requested Analyses

	Sample Name	Matrix	Date	Time	No. of Containers	D2216 Moisture Soil	Dioxin by 1613B - Soil	Dioxin by 1613B - Water	Metals 6020 Cd Water	Metals 6020 Cu Water	Metals 6020 Soil Arsenic	Metals 6020 Soil Cadmium	Metals 6020 Soil Copper	Metals 6020 Soil Lead	Metals 6020 Soil Zinc	Metals 6020 Water Arsenic	Metals 6020 Water Lead	Metals 6020 Zn Water			Comments
✓	HZBS0072S001	Soil	2/25/2009	12:42	1	10						10		10	10						
✓	HZBS0074S001	Soil	2/25/2009	11:52	1	10								10							
✓	HZBS0075S001	Soil	2/25/2009	13:40	1	H								H							
✓	HZBS0076S001	Soil	2/25/2009	10:39	1	10								10							
✓	HZBS0077S001	Soil	2/25/2009	10:16	2	(2) 10	10						(2) 10								
✓	HZBS0078S001	Soil	2/25/2009	10:28	1	10								10							
✓	HZBS0080S001	Soil	2/25/2009	10:02	1	10	(3) 10					(3) 10		10							
✓	HZBS0081S001	Soil	2/25/2009	9:42	2	H	H							H							
✓	HZBS0082S001	Soil	2/25/2009	9:00	1	10	(3) 10					(3) 10		10							
✓	HZBS0082S002	Soil	2/25/2009	9:08	1	H								H							

Instructions/TAT

Legend:
Numerical values for analyses equate to turn around time in days

H - Hold
EH - Extract/Extrude & Hold

Note: Values in the cells bellow are Turn Around Times.

1. Relinquished by:	Date:	2. Received by:	Date:	3. Relinquished by:	Date:	4. Received by:	Date:
B~O	2/25/09	Richard Allen	2/26/09				
Company: MWH	Time: 1630	Company: GEL	Time: 0845	Company:	Time:	Company:	Time:

Comments:

Geotracker EDF

Data Validation Package ✓ Level IV

(2) SVR 03/23/09
(3) SVR 04/14/09

23

225170%

BOEING

CHAIN OF CUSTODY RECORD

COC #: MWHAL20090225_00

Page: 3 of 3

Customer Information

Site:	SSFL
Company:	MWH
Report to:	Sarah Von Raesfeld
Address:	2121 N. California Blvd
	Suite 600
	Walnut Creek
	CA
	94596
Email:	sarah.vonraesfeld@mwhglobal.c
	sean.leffler@mwhglobal.com

Project Information

Client Name:	Boeing
Sampling Event:	ISRA Sampling, Feb 2009
Project Number:	1891614.050104
Project Manager:	Alex Fischl
PM Phone #:	(925) 627-4627
Field Contact:	Brian Martasin
Field Contact #:	(323) 304-4969
Lab Name:	GEL Laboratories, LLC
Lab Contact:	Cheryl Jones
Lab Address:	2040 Savage Road
	Charleston, SC 29407
Lab Phone:	(843) 769-7388

Project Information

Collector: A. Leavitt

Contact #:

Boeing PM:

Requested Analyses

Sample Name	Matrix	Date	Time	No. of Containers	D2216 Moisture Soil	Dioxin by 1613B - Soil	Dioxin by 1613B - Water	Metals 6020 Cd Water	Metals 6020 Cu Water	Metals 6020 Soil Arsenic	Metals 6020 Soil Cadmium	Metals 6020 Soil Copper	Metals 6020 Soil Lead	Metals 6020 Soil Zinc	Metals 6020 Water Arsenic	Metals 6020 Water Lead	Metals 6020 Zn Water	Comments
✓ HZBS0083S001	Soil	2/25/2009	8:51	1	(2) 10	10							H					
✓ HZBS0084S001	Soil	2/25/2009	8:40	1	10	10	(3)				(3)	10	10					
✓ HZBS0085S001	Soil	2/25/2009	12:00	1	10					10	10	10	10					
✓ HZBS0092S001	Soil	2/25/2009	8:13	1	10					10	10	10	10					
✓ HZBS0096S001	Soil	2/25/2009	11:45	1	(1) 14								HD					
✓ HZBS0097S001	Soil	2/25/2009	12:11	1	10								10					

Instructions/TAT

Legend:
Numerical values for analyses equate to turn around time in days

H - Hold
EH - Extract/Extrude & Hold

Note: Values in the cells bellow are Turn Around Times.

1. Relinquished by:	Date:	2. Received by:	Date:	3. Relinquished by:	Date:	4. Received by:	Date:
	2/25/09		2/26/09				
Company: MWH	Time: 1630	Company: GEL	Time: 0845	Company:	Time:	Company:	Time:

Comments:

Geotracker EDF

Data Validation Package ✓ Level IV

(1) SVR 02/26/09

(2) SVR 03/23/09

(3) SVR 04/14/09

227724 %

BOEING

CHAIN OF CUSTODY RECORD

COC #: MWHBM20090409_00

Page: 1 of 1

Customer Information		Project Information		Project Information	
Site:	SSFL	Client Name:	Boeing	Collector:	B. Martasin
Company:	MWH	Sampling Event:	ISRA Sampling, Feb 2009	Contact #:	(1)
Report to:	Sarah Von Raesfeld	Project Number:	1891614.050104	Boeing PM:	
Address:	2121 N. California Blvd	Project Manager:	Alex Fischl		
	Suite 600	PM Phone #:	(925) 627-4627		
	Walnut Creek	Field Contact:	Brian Martasin		
	CA	Field Contact #:	(323) 304-4969		
	94596	Lab Name:	GEL Laboratories, LLC		
Email:	sarah.vonraesfeld@mwhglobal.c	Lab Contact:	Cheryl Jones		
	sean.leffler@mwhglobal.com	Lab Address:	2040 Savage Road		
			Charleston, SC 29407		
		Lab Phone:	(843) 769-7388		

Sample Name	Matrix	Date	Time	No. of Containers	Requested Analyses: D2216 Moisture Soil	Dioxin by 1613B - Soil	Dioxin by 1613B - Water	Metals 6020 Soil Copper	Metals 6020 Soil Lead	Metals 6020 Cu Water	Metals 6020 Water Lead	Comments
CNBS0131S001	Soil	4/9/2009	14:35	2	H	H		10	10			
EBQW2207	Water	4/9/2009	9:40	2			H			10	10	
HZBS0105S001	Soil	4/9/2009	8:40	1	H	H						
HZBS0106S001	Soil	4/9/2009	8:20	1 (1)	H	H						
HZBS0106S002	Soil	4/9/2009	8:30	1	H	H						
HZBS0107D001	Soil	4/9/2009	0:00	1	H	H						
HZBS0107S001	Soil	4/9/2009	8:10	1	H	H						
HZBS0108S001	Soil	4/9/2009	14:45	2	H	H						

Instructions/TAT

Legend:
Numerical values for analyses equate to turn around time in days

H - Hold
EH - Extract/Extrude & Hold

Note: Values in the cells bellow are Turn Around Times.

1. Relinquished by:	Date:	2. Received by:	Date:	3. Relinquished by:	Date:	4. Received by:	Date:
B. M	4/9/09	Jacqueline A Gill	4/10/09				
Company: MWH	Time: 1545	Company: GEL	Time: 09:00	Company:	Time:	Company:	Time:

Comments:

Geotracker EDF ☐

Data Validation Package ☑ Level IV

(1) SVR 04/14/09

25

LABORATORY TASK ORDER (LTO) FORM

INSTRUCTIONS: To be completed by Environmental Contractor & Emailed to Laboratory Project Manager, CH2M HILL (boeingedms@ch2m.com) & the Data Validator at Least 48 hrs prior to need for sample containers. Project Analytical Laboratory will confirm receipt via E-Mail.

Event Name: ISRA Sampling, Feb 2009 **Start:** 2/19/2009 **End:** 2/23/2009

LTO DATE: **LTO NUMBER:**

Consultant Name:	MWH	**Contract Laboratory:**	GEL
Address:	2121 N. California Blvd. Ste. 600	Address:	2040 Savage Rd.
	Walnut Creek, CA 94596		Charleston, SC 29407
Contact Name:	Sarah Von Raesfeld	**Lab Contact Name:**	Cheryl Jones
Phone Number:	925-627-4654	Phone Number:	843-769-7388
Fax Number:	925-627-4501	Fax Number:	843-766-1178
E-mail Address:	Sarah.VonRaesfeld@mwhglobal.com	E-mail Address:	cj@gel.com

SAMPLE CONTAINER ORDER FORM

Date Required: 02/19/09

Date Sample Pickup: NA

Ship Containers To:

Project Site	X	*(enter "X")*
Consultant Office		*(enter "X")*
Other Location (specify in comments)		*(enter "X")*

Container Information:

Trip Blank (VOA only)	Yes	*(Yes/No)*
Temp Blank (VOA Only)	No	*(Yes/No)*
DI Water Required?	No	*(Yes/No)*
MS/MSD Extra Bottles?	No	*(Yes/No)*

Sample Matrix:

Soil	X	*(select all applicable)*
Water	X	*(select all applicable)*
Vapor		*(select all applicable)*

Est. Total # of Samples: 75 Est. Total # of EDDs 5

Requested Analyses: **(Specify # of Samples)**

	Water	Soil	Contingent
Dioxins - (1613B)	**5**	**9**	**14**
EPA 8015M (DRO)	--	--	--
EPA 8015M (JET FUEL)	--	--	--
EPA 8015M (CC)	--	--	--
EPA 8260B (VOC)	--	--	--
EPA 8270C SIM (SVOC)	--	--	--
EPA 8310 (PAH)	--	--	--
EPA 8082 (PCB)	--	--	--
Acetone (8260B)	--	--	--
EPA TO-15 VOCs (SIM)	--	--	--
Metals (6010B/6020/7470A/7471A)	--	--	--
Cadmium (6020)	**5**	**15**	**10**
Arsenic (6020)	**5**	**5**	**5**
% Moisture (D2216)	**0**	**40**	**30**
Lead (6020)	**5**	**40**	**30**
Copper (6020)	**5**	**10**	**5**
Zinc (6020)	**5**	**10**	**5**
EPA TO-14 (VOCs)	--	--	--

LABORATORY REPORTING REQUIREMENTS

Project TAT:

Normal:	X	(10 Business days)
RUSH:		(Specify- 24 / 48 / 72HRS)
Other :		(Specify # of Days)
Report Due Date:		

Special Reporting Requirements:

Contingent Analysis?	No	*(Yes/No)*
TIC (VOC) Required?	No	*(Yes/No)*
TIC (SVOC) Required?	No	*(Yes/No)*
Data Validation Pckge.:	Tier III	(Boeing Tier I, II or III)

Laboratory Results/Reports Deliverables:

Draft Results Fax?:		(Yes/No)
Draft Results E-mail?:	Yes	(Yes/No)

Specify Fax/E-mail Contact Name, #, E-mail Address: Sarah.VonRaesfeld@mwhglobal.com

Send Original Reports To:

Project Site		*(enter "X")*
Consultant Office		*(enter "X")*
Other Location (specify in comments)	X	*(enter "X")*
# of Copies Reports Req.:	1	

SPECIAL INSTRUCTIONS/LTO NOTES

CONFIRMATION OF TRANSMITTAL & RECEIPT

LTO Sent By:

Name: Sean Leffler

Date: 02/20/09

LTO Received By-

Name:

Date:

LABORATORY TASK ORDER (LTO) FORM (PAGE 2)

ADDITIONAL REQUIRED ANALYSES

LTO DATE: | **LTO NUMBER:**

Consultant Name:	MWH	**Contract Laboratory:**	GEL
Address:	2121 N. California Blvd. Ste. 600	Address:	2040 Savage Rd.
	Walnut Creek, CA 94596		Charleston, SC 29407
Contact Name:	Sarah Von Raesfeld	**Lab Contact Name:**	Cheryl Jones
Phone Number:	925-627-4654	Phone Number:	843-769-7388
Fax Number:	925-627-4501	Fax Number:	843-766-1178
E-mail Address:	Sarah.VonRaesfeld@mwhglobal.com	E-mail Address:	cj@gel.com

SAMPLE CONTAINER ORDER FORM (CONTINUED)

Requested Analyses: **(Specify # of Samples)**

	Water	Soil	Contingent
Arsenic (6020)	--	--	--
Lead (6020)	--	--	--
Cadmium (6020)	--	--	--
Lithium (6020)	--	--	--
Sodium (6020)	--	--	--
Selenium (6020)	--	--	--
Thallium (6020)	--	--	--
Zinc (6020)	--	--	--
Boron (6010B	--	--	--
Vanadium (6010B)	--	--	--
Copper (6020)	--	--	--
Zirconium (6020)	--	--	--

Table of Contents

Case Narrative

Case Narrative
for
Boeing - Santa Susanna Field Laboratory
Work Order: 227874
SDG: 227874H

April 27, 2009

Laboratory Identification:

GEL Laboratories LLC
2040 Savage Road
Charleston, South Carolina 29407
(843) 556-8171

Summary:

Sample Receipt

The samples arrived at GEL Laboratories LLC, Charleston, South Carolina on April 10, 2009, February 25, 2009 and February 26, 2009 for analysis. The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt.

The laboratory received the following samples:

Laboratory Identification	Sample Description
227874001	CNBS0131S001
227874002	EBQW2207
227874003	HZBS0105S001
227874004	HZBS0106S001
227874005	HZBS0106S002
227874006	HZBS0107D001
227874007	HZBS0107S001
227874008	HZBS0062S001
227874009	HZBS0069S001
227874010	HZBS0080S001
227874011	HZBS0082S001
227874012	HZBS0084S001

Items of Note

Santa Susanna Field Laboratory Technical Representative was contacted seeking resolution to any analytical and/or receipt issues. Please see the enclosed e-mails.

Case Narrative

Sample analyses were conducted using methodology as outlined in GEL Laboratories, LLC (GEL) Standard Operating Procedures. Any technical or administrative problems during analysis, data review, and reduction are contained in the analytical case narratives in the enclosed data package.

Data Package:

The enclosed data package contains the following sections: Case Narrative, Chain of Custody, Cooler Receipt Checklist, Data Package Qualifier Definitions and data from the following fractions: Metals, Percent Moisture and Dioxins (SGS Laboratories).

I certify that this data package is in compliance with the terms and conditions of the subcontract and task order, both technically and for the completeness, for other than the conditions detailed in the attached case narratives.

Cheryl Jones

Project Manager

Data Qualifiers Definitions

Data Review Qualifier Definitions

Qualifier	Explanation
*	A quality control analyte recovery is outside of specified acceptance criteria
**	Analyte is a surrogate compound
<	Result is less than value reported
>	Result is greater than value reported
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL
A	The TIC is a suspected aldol-condensation product
B	Target analyte was detected in the associated blank
B	Metals-Either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL
BD	Results are either below the MDC or tracer recovery is low
C	Analyte has been confirmed by GC/MS analysis
D	Results are reported from a diluted aliquot of the sample
d	5-day BOD-The 2:1 depletion requirement was not met for this sample
E	Organics-Concentration of the target analyte exceeds the instrument calibration range
E	Metals-%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
H	Analytical holding time was exceeded
h	Preparation or preservation holding time was exceeded
J	Value is estimated
N	Metals-The Matrix spike sample recovery is not within specified control limits
N	Organics-Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based on nearest internal standard response factor
N/A	Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
ND	Analyte concentration is not detected above the reporting limit
UI	Gamma Spectroscopy-Uncertain identification
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y	QC Samples were not spiked with this compound
Z	Paint Filter Test-Particulates passed through the filter, however no free liquids were observed.

Laboratory Certifications

List of current GEL Certifications as of 24 April 2009

State	Certification
Arizona	AZ0668
Arkansas	88−0651
CLIA	42D0904046
California − NELAP	01151CA
Colorado	GEL
Connecticut	PH−0169
Dept. of Navy	NFESC 413
EPA Region 5	WG−15J
Florida − NELAP	E87156
Georgia	E87156 (FL/NELAP)
Georgia DW	967
Hawaii	N/A
ISO 17025	2567.01
Idaho	SC00012
Illinois − NELAP	200029
Indiana	C−SC−01
Kansas − NELAP	E−10332
Kentucky	90129
Louisiana − NELAP	03046
Maryland	270
Massachusetts	M−SC012
Nevada	SC00012
New Jersey − NELAP	SC002
New Mexico	FL NELAP E87156
New York − NELAP	11501
North Carolina	233
North Carolina DW	45709
Oklahoma	9904
Pennsylvania − NELAP	68−00485
South Carolina	10120001/10120002
Tennessee	TN 02934
Texas − NELAP	T104704235−07B−TX
U.S. Dept. of Agriculture	S−52597
Utah − NELAP	GEL
Vermont	VT87156
Virginia	00151
Washington	C1641

DATA VALIDATION REPORT

Boeing SSFL RFI ISRA

SAMPLE DELIVERY GROUP: 227874H

Prepared by

MEC^X, LP
12269 East Vassar Drive
Aurora, CO 80014

I. INTRODUCTION

Task Order Title:	Boeing SSFL RFI ISRA
Contract Task Order:	1261.500D.00
Sample Delivery Group:	227874H
Project Manager:	Dixie Hambrick
Matrix:	water/soil
QC Level:	V
No. of Samples:	12
No. of Reanalyses/Dilutions:	0
Laboratory:	GEL

Table 1. Sample Identification

Sample Name	***Lab Sample Name***	***Sub-Lab Sample Name***	***Matrix***	***Collection***	***Method***
CNBS0131S001	227874001	G341-577-1B	Soil	4/9/2009 2:35:00 PM	6020, 1613B
EBQW2207	227874002	G341-577-2C	Water	4/9/2009 9:40:00 AM	6020, 1613B
HZBS0062S001	227874008	G341-577-9B	Soil	2/24/2009 11:01:00 AM	6020, 1613B
HZBS0069S001	227874009	G341-577-10B	Soil	2/25/2009 12:51:00 PM	6020, 1613B
HZBS0080S001	227874010	G341-577-11B	Soil	2/25/2009 10:02:00 AM	6020, 1613B
HZBS0082S001	227874011	G341-577-12B	Soil	2/25/2009 9:00:00 AM	6020, 1613B
HZBS0084S001	227874012	G341-577-13C	Soil	2/25/2009 8:40:00 AM	6020, 1613B
HZBS0105S001	G341-577-3B	N/A	Soil	4/9/2009 8:40:00 AM	1613B
HZBS0106S001	G341-577-4B	N/A	Soil	4/9/2009 8:20:00 AM	1613B
HZBS0106S002	G341-577-5B	N/A	Soil	4/9/2009 8:30:00 AM	1613B
HZBS0107D001	G341-577-6B	N/A	Soil	4/9/2009	1613B
HZBS0107S001	G341-577-7B	N/A	Soil	4/9/2009 8:10:00 AM	1613B

II. Sample Management

No anomalies were observed regarding sample management. One cooler associated with the samples in this SDG was received below the control limit; however, the samples were not noted to be frozen or damaged. The remaining coolers in this SDG were received at the laboratory within the temperature limits of 4°C ±2°C. According to the case narrative for this SDG, the samples were received intact, on ice, and properly preserved, if applicable. The COCs were appropriately signed and dated by field and/or laboratory personnel. Custody seals were intact. If necessary, the client ID was added to the sample result summary by the reviewer.

Data Qualifier Reference Table

Qualifier	Organics	Inorganics
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit. The associated value is the quantitation limit or the estimated detection limit for dioxins.	The material was analyzed for, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample detection limit. The associated value is the sample detection limit or the quantitation limit for perchlorate only.
J	The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.	The associated value is an estimated quantity.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."	Not applicable.
NJ	The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.	Not applicable.
UJ	The analyte was not deemed above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.	The material was analyzed for, but was not detected. The associated value is an estimate and may be inaccurate or imprecise.
T-I	The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration. The tentative identification represents a compound with a CAS number and fit greater than 80%.	Not applicable

T-II	The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration. The tentative identification represents a class of compound but not of sufficient identification quality to represent a specific compound.	Not applicable
T-III	The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration. The tentative identification represents an unknown compound.	Not applicable
R	The data are unusable. The sample results are rejected due to serious deficiencies in the ability to analyze the sample and to meet quality control criteria. The presence or absence of the analyte cannot be verified.	The data are unusable. The sample results are rejected due to serious deficiencies in the ability to analyze the sample and to meet quality control criteria. The presence or absence of the analyte cannot be verified.

Qualification Code Reference Table

Qualifier	Organics	Inorganics
H	Holding times were exceeded.	Holding times were exceeded.
S	Surrogate recovery was outside QC limits.	The sequence or number of standards used for the calibration was incorrect
C	Calibration %RSD or %D was noncompliant.	Correlation coefficient is <0.995.
R	Calibration RRF was <0.05.	%R for calibration is not within control limits.
B	Presumed contamination as indicated by the preparation (method) blank results.	Presumed contamination as indicated by the preparation (method) or calibration blank results.
L	Laboratory Blank Spike/Blank Spike Duplicate %R was not within control limits.	Laboratory Control Sample %R was not within control limits.
Q	MS/MSD recovery was poor or RPD high.	MS recovery was poor.
E	Not applicable.	Duplicates showed poor agreement.
I	Internal standard performance was unsatisfactory.	ICP ICS results were unsatisfactory.
A	Not applicable.	ICP Serial Dilution %D were not within control limits.
M	Tuning (BFB or DFTPP) was noncompliant.	Not applicable.
T	Presumed contamination as indicated by the trip blank results.	Not applicable.
+	False positive – reported compound was not present.	Not applicable.
-	False negative – compound was present but not reported.	Not applicable.
F	Presumed contamination as indicated by the FB or ER results.	Presumed contamination as indicated by the FB or ER results.
$	Reported result or other information was incorrect.	Reported result or other information was incorrect.
?	TIC identity or reported retention time has been changed.	Not applicable.

Qualification Code Reference Table Cont.

D	The analysis with this flag should not be used because another more technically sound analysis is available.	The analysis with this flag should not be used because another more technically sound analysis is available.
P	Instrument performance for pesticides was poor.	Post Digestion Spike recovery was not within control limits.
*II, *III	Unusual problems found with the data that have been described in Section II, "Sample Management," or Section III, "Method Analyses." The number following the asterisk (*) will indicate the report section where a description of the problem can be found.	Unusual problems found with the data that have been described in Section II, "Sample Management," or Section III, "Method Analyses." The number following the asterisk (*) will indicate the report section where a description of the problem can be found.

III. Method Analyses

A. EPA METHOD 1613—Dioxin/Furans

Reviewed By: K. Shadowlight
Date Reviewed: May 1, 2009

The samples listed in Table 1 for this analysis were validated based on the guidelines outlined in the *MEC^X Data Validation Procedure for Dioxins and Furans (DVP-19, Rev. 0), USEPA Method 1613*, and the *National Functional Guidelines Chlorinated Dioxin/Furan Data Review* (10/99).

- Holding Times: Extraction and analytical holding times were met. The samples were extracted and analyzed within one year of collection.

- Instrument Performance: Review is not applicable at a Level V validation.

- Calibration: Review is not applicable at a Level V validation.

- Blanks: Method blanks had no target compound detects above the EDL.

- Blank Spikes and Laboratory Control Samples: Recoveries were within the acceptance criteria listed in Table 6 of Method 1613. RPDs for the OPR/OPRD were within the laboratory-established QC limits.

- Field QC Samples: Field QC samples were evaluated, and if necessary, qualified based on method blanks and other laboratory QC results affecting the usability of the field QC data. Any remaining detects were used to evaluate the associated site samples. Following are findings associated with field QC samples:

    - Field Blanks and Equipment Rinsates: Sample FBQW2209 (225106) was the field blank and EBQW2207 was the equipment rinsate sample identified for this SDG. There were no detects above the EDL in the field QC samples.

    - Field Duplicates: Samples HZBS0107S001 and HZBS0107D001 were the field duplicate samples identified for this SDG. All detects were in common and RPDs were ≤50%. The pair was considered to be in good agreement.

- Internal Standards Performance: Internal standard recoveries are not routinely evaluated at a Level V validation; however, the recoveries were reported on the sample result summaries. The labeled standard recoveries were within the acceptance criteria listed in Table 7 of Method 1613.

- Compound Identification: Review is not applicable at a Level V validation. The laboratory analyzed for polychlorinated dioxins/furans by EPA Method 1613. Confirmation analysis was not performed by the laboratory for 2,3,7,8-TCDF detects below the RL; therefore,

any detects for 2,3,7,8-TCDF between the EDL and the adjusted RL were qualified as estimated, "J," in the samples of this SDG.

- Compound Quantification and Reported Detection Limits: Review is not applicable at a Level V validation. The laboratory calculated and reported compound-specific detection limits. Estimated maximum possible concentrations (EMPCs) were reported in some of the samples in this SDG. Any EMPC was qualified as an estimated nondetect, "UJ," in the samples of this SDG. Any detect below the laboratory lower calibration level was qualified as estimated, "J." Nondetects are valid to the estimated detection limit (EDL).

B. EPA METHOD 6020—Metals

Reviewed By: P. Meeks
Date Reviewed: May 1, 2009

The samples listed in Table 1 for this analysis were validated based on the guidelines outlined in the *MEC^X Data Validation Procedure for Metals (DVP-5, Rev. 0 and DVP-21, Rev. 0), EPA Method 6020,* and the *National Functional Guidelines for Inorganic Data Review* (7/02).

- Holding Times: Analytical holding times, six months for ICP-MS metals, was met.

- Tuning: Review is not applicable at a Level V validation.

- Calibration: Review is not applicable at a Level V validation.

- Blanks: Copper was detected in a soil method blank at 0.0661 mg/kg; therefore copper detected in HZBS0082S001 was qualified as nondetected, "U," at the level of contamination. Method blanks and CCBs had no other detects.

- Interference Check Samples: Review is not applicable at a Level V validation.

- Blank Spikes and Laboratory Control Samples: Recoveries and the aqueous RPDs were within laboratory-established QC limits.

- Laboratory Duplicates: A laboratory duplicate analysis was performed on HZBS0069S001. The RPDs were within the laboratory-established QC limits.

- Matrix Spike/Matrix Spike Duplicate: MS/MSD analyses were performed on HZBS0069S001. Recoveries and RPDs were within laboratory-established QC limits.

- Serial Dilution: Serial dilution analyses were performed on HZBS0069S001 and EBQW2207. All %Ds were within the method-established control limit.

- Internal Standards Performance: Review is not applicable at a Level V validation.

- Sample Result Verification: Review is not applicable at a Level V validation. As the samples in this SDG were validated at Level V, the QC information necessary to make an absolute determination of bias in the samples was not reviewed; therefore, when qualifications were applied, no bias was assigned. The soil samples were analyzed at the laboratory's standard 2× dilution. Any result reported between the MDL and the reporting limit was qualified as estimated, "J." Reported nondetects are valid to the MDL.

- Field QC Samples: Field QC samples were evaluated, and if necessary, qualified based on method blanks and other laboratory QC results affecting the usability of the field QC data. Any remaining detects were used to evaluate the associated site samples. Following are findings associated with field QC samples:

    - Field Blanks and Equipment Rinsates: EBQW2207 was the field blank and FBQW2229 (225106) was the field blank associated with the samples in this SDG. There were no applicable detects in the field QC samples.

    - Field Duplicates: There were no field duplicate samples identified for this SDG.

Validated Sample Result Forms: 227874H

Analysis Method 1613B

Sample Name CNBS0131S001 **Matrix Type:** Soil **Result Type:** Primary Result

Lab Sample Name: G341-577-1B **Sample Date:** 4/9/2009 2:35:00 PM **Validation Level:** V

Matrix Type: Soil

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
1,2,3,4,6,7,8-HpCDD	35822469	10.3	4.46	0.702	PG/G			
1,2,3,4,6,7,8-HpCDF	67562394	2.99	4.46	0.345	PG/G	A	**J**	
1,2,3,4,7,8,9-HpCDF	55673897	0.465	4.46	0.465	PG/G	U	**U**	
1,2,3,4,7,8-HxCDD	39227286	0.422	4.46	0.422	PG/G	U	**U**	
1,2,3,4,7,8-HxCDF	70648269	0.697	4.46	0.425	PG/G	A	**J**	
1,2,3,6,7,8-HxCDD	57653857	1.43	4.46	0.443	PG/G	A	**J**	
1,2,3,6,7,8-HxCDF	57117449	0.779	4.46	0.374	PG/G	A	**J**	
1,2,3,7,8,9-HxCDD	19408743	1.51	4.46	0.436	PG/G	A	**J**	
1,2,3,7,8,9-HxCDF	72918219	0.503	4.46	0.503	PG/G	U	**U**	
1,2,3,7,8-PeCDD	40321764	0.418	4.46	0.418	PG/G	U	**U**	
1,2,3,7,8-PeCDF	57117416	0.447	4.46	0.315	PG/G	A	**J**	
2,3,4,6,7,8-HxCDF	60851345	0.499	4.46	0.396	PG/G	A	**J**	
2,3,4,7,8-PeCDF	57117314	0.889	4.46	0.295	PG/G	A	**J**	
2,3,7,8-TCDD	1746016	0.338	0.891	0.338	PG/G	U	**U**	
2,3,7,8-TCDF	51207319	0.934	0.892	0.435	PG/G			
OCDD	3268879	109	8.91	1.62	PG/G			
OCDF	39001020	6.27	8.91	0.79	PG/G	A	**J**	
Total HpCDDs	37871004	38.3	4.46	0.702	PG/G			
Total HpCDFs	38998753	5.91	4.46	0.4	PG/G			
Total HxCDDs	34465468	5.84	4.46	0.434	PG/G			
Total HxCDFs	55684941	7.01	4.46	0.421	PG/G			
Total PeCDDs	36088229	0.418	4.46	0.418	PG/G	U	**U**	
Total PeCDFs	30402154	11.9	4.46	0.305	PG/G			
Total TCDDs	41903575	0.435	0.891	0.338	PG/G	A	**J**	
Total TCDFs	30402143	3.43	0.891	0.585	PG/G			

Analysis Method 1613B

Sample Name EBQW2207 **Matrix Type:** Water **Result Type:** Primary Result

Lab Sample Name: G341-577-2C **Sample Date:** 4/9/2009 9:40:00 AM **Validation Level:** V

Matrix Type: Water

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
1,2,3,4,6,7,8-HpCDD	35822469	0.0161	0.0472	0.0161	NG/L	U	**U**	
1,2,3,4,6,7,8-HpCDF	67562394	0.00388	0.0472	0.00388	NG/L	U	**U**	
1,2,3,4,7,8,9-HpCDF	55673897	0.00581	0.0472	0.00581	NG/L	U	**U**	
1,2,3,4,7,8-HxCDD	39227286	0.00906	0.0472	0.00906	NG/L	U	**U**	
1,2,3,4,7,8-HxCDF	70648269	0.00348	0.0472	0.00348	NG/L	U	**U**	
1,2,3,6,7,8-HxCDD	57653857	0.00959	0.0472	0.00959	NG/L	U	**U**	
1,2,3,6,7,8-HxCDF	57117449	0.00337	0.0472	0.00337	NG/L	U	**U**	
1,2,3,7,8,9-HxCDD	19408743	0.0094	0.0472	0.0094	NG/L	U	**U**	
1,2,3,7,8,9-HxCDF	72918219	0.00424	0.0472	0.00424	NG/L	U	**U**	
1,2,3,7,8-PeCDD	40321764	0.00542	0.0472	0.00542	NG/L	U	**U**	
1,2,3,7,8-PeCDF	57117416	0.0023	0.0472	0.0023	NG/L	U	**U**	
2,3,4,6,7,8-HxCDF	60851345	0.00341	0.0472	0.00341	NG/L	U	**U**	
2,3,4,7,8-PeCDF	57117314	0.00215	0.0472	0.00215	NG/L	U	**U**	
2,3,7,8-TCDD	1746016	0.00365	0.00943	0.00365	NG/L	U	**U**	
2,3,7,8-TCDF	51207319	0.00469	0.00943	0.00469	NG/L	U	**U**	
OCDD	3268879	0.034	0.0943	0.034	NG/L	U	**U**	
OCDF	39001020	0.0086	0.0943	0.0086	NG/L	U	**U**	
Total HpCDDs	37871004	0.0161	0.0472	0.0161	NG/L	U	**U**	
Total HpCDFs	38998753	0.00475	0.0472	0.00475	NG/L	U	**U**	
Total HxCDDs	34465468	0.00936	0.0472	0.00936	NG/L	U	**U**	
Total HxCDFs	55684941	0.0036	0.0472	0.0036	NG/L	U	**U**	
Total PeCDDs	36088229	0.00542	0.0472	0.00542	NG/L	U	**U**	
Total PeCDFs	30402154	0.0024	0.0472	0.0024	NG/L	U	**U**	
Total TCDDs	41903575	0.00365	0.00943	0.00365	NG/L	U	**U**	
Total TCDFs	30402143	0.00469	0.00943	0.00469	NG/L	U	**U**	

Analysis Method 1613B

Sample Name HZBS0062S001 **Matrix Type:** Soil **Result Type:** Primary Result

Lab Sample Name: G341-577-9B **Sample Date:** 2/24/2009 11:01:00 AM **Validation Level:** V

Matrix Type: Soil

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
1,2,3,4,6,7,8-HpCDD	35822469	129	4.36	0.703	PG/G			
1,2,3,4,6,7,8-HpCDF	67562394	16.5	4.36	0.442	PG/G			
1,2,3,4,7,8,9-HpCDF	55673897	1.39	4.36	0.578	PG/G	A	**J**	
1,2,3,4,7,8-HxCDD	39227286	1.07	4.36	0.405	PG/G	A	**J**	
1,2,3,4,7,8-HxCDF	70648269	1.71	4.36	0.321	PG/G	A	**J**	
1,2,3,6,7,8-HxCDD	57653857	4.8	4.36	0.398	PG/G			
1,2,3,6,7,8-HxCDF	57117449	0.769	4.36	0.322	PG/G	A	**J**	
1,2,3,7,8,9-HxCDD	19408743	1.79	4.36	0.404	PG/G	A	**J**	
1,2,3,7,8,9-HxCDF	72918219	0.678	4.36	0.437	PG/G	A	**J**	
1,2,3,7,8-PeCDD	40321764	0.548	4.36	0.295	PG/G	A	**J**	
1,2,3,7,8-PeCDF	57117416	0.494	4.36	0.222	PG/G	A	**J**	
2,3,4,6,7,8-HxCDF	60851345	1.02	4.36	0.334	PG/G	A	**J**	
2,3,4,7,8-PeCDF	57117314	1.16	4.36	0.195	PG/G	A	**J**	
2,3,7,8-TCDD	1746016	0.245	0.872	0.245	PG/G	U	**U**	
2,3,7,8-TCDF	51207319	0.844	0.872	0.36	PG/G	A	**J**	***III**
OCDD	3268879	2260	8.72	0.889	PG/G			
OCDF	39001020	0.634	8.72	0.634	PG/G	U	**U**	
Total HpCDDs	37871004	695	4.36	0.703	PG/G			
Total HpCDFs	38998753	60.2	4.36	0.503	PG/G			
Total HxCDDs	34465468	37.2	4.36	0.403	PG/G			
Total HxCDFs	55684941	33.8	4.36	0.351	PG/G			
Total PeCDDs	36088229	3.86	4.36	0.295	PG/G	A	**J**	
Total PeCDFs	30402154	11.1	4.36	0.208	PG/G			
Total TCDDs	41903575	0.366	0.872	0.245	PG/G	A	**J**	
Total TCDFs	30402143	4.08	0.872	0.36	PG/G			

Analysis Method 1613B

Sample Name HZBS0069S001 **Matrix Type:** Soil **Result Type:** Primary Result

Lab Sample Name: G341-577-10B **Sample Date:** 2/25/2009 12:51:00 PM **Validation Level:** V

Matrix Type: Soil

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
1,2,3,4,6,7,8-HpCDD	35822469	5.88	4.26	0.552	PG/G			
1,2,3,4,6,7,8-HpCDF	67562394	1.32	4.26	0.288	PG/G	A	**J**	
1,2,3,4,7,8,9-HpCDF	55673897	0.406	4.26	0.406	PG/G	U	**U**	
1,2,3,4,7,8-HxCDD	39227286	0.382	4.26	0.382	PG/G	U	**U**	
1,2,3,4,7,8-HxCDF	70648269	0.239	4.26	0.239	PG/G	U	**U**	
1,2,3,6,7,8-HxCDD	57653857	0.895	4.26	0.895	PG/G	EMPC	**UJ**	***III**
1,2,3,6,7,8-HxCDF	57117449	0.271	4.26	0.22	PG/G	A	**J**	
1,2,3,7,8,9-HxCDD	19408743	0.912	4.26	0.385	PG/G	A	**J**	
1,2,3,7,8,9-HxCDF	72918219	0.295	4.26	0.295	PG/G	U	**U**	
1,2,3,7,8-PeCDD	40321764	0.312	4.26	0.312	PG/G	U	**U**	
1,2,3,7,8-PeCDF	57117416	0.214	4.26	0.214	PG/G	U	**U**	
2,3,4,6,7,8-HxCDF	60851345	0.233	4.26	0.233	PG/G	U	**U**	
2,3,4,7,8-PeCDF	57117314	0.229	4.26	0.187	PG/G	A	**J**	
2,3,7,8-TCDD	1746016	0.304	0.853	0.304	PG/G	U	**U**	
2,3,7,8-TCDF	51207319	0.443	0.853	0.378	PG/G	A	**J**	***III**
OCDD	3268879	61.4	8.53	0.817	PG/G			
OCDF	39001020	3.28	8.53	0.712	PG/G	A	**J**	
Total HpCDDs	37871004	21.4	4.26	0.552	PG/G			
Total HpCDFs	38998753	4	4.26	0.342	PG/G	A	**J**	
Total HxCDDs	34465468	1.64	4.26	0.384	PG/G	A	**J**	
Total HxCDFs	55684941	2.13	4.26	0.245	PG/G	A	**J**	
Total PeCDDs	36088229	0.312	4.26	0.312	PG/G	U	**U**	
Total PeCDFs	30402154	0.551	4.26	0.201	PG/G	A	**J**	
Total TCDDs	41903575	0.304	0.853	0.304	PG/G	U	**U**	
Total TCDFs	30402143	0.837	0.853	0.378	PG/G	A	**J**	

Analysis Method 1613B

Sample Name HZBS0080S001 **Matrix Type:** Soil **Result Type:** Primary Result

Lab Sample Name: G341-577-11B **Sample Date:** 2/25/2009 10:02:00 AM **Validation Level:** V

Matrix Type: Soil

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
1,2,3,4,6,7,8-HpCDD	35822469	6.27	4.37	0.493	PG/G			
1,2,3,4,6,7,8-HpCDF	67562394	1.5	4.37	0.238	PG/G	A	**J**	
1,2,3,4,7,8,9-HpCDF	55673897	0.331	4.37	0.331	PG/G	U	**U**	
1,2,3,4,7,8-HxCDD	39227286	0.329	4.37	0.329	PG/G	U	**U**	
1,2,3,4,7,8-HxCDF	70648269	0.268	4.37	0.268	PG/G	U	**U**	
1,2,3,6,7,8-HxCDD	57653857	0.482	4.37	0.325	PG/G	A	**J**	
1,2,3,6,7,8-HxCDF	57117449	0.25	4.37	0.25	PG/G	U	**U**	
1,2,3,7,8,9-HxCDD	19408743	0.405	4.37	0.329	PG/G	A	**J**	
1,2,3,7,8,9-HxCDF	72918219	0.325	4.37	0.325	PG/G	U	**U**	
1,2,3,7,8-PeCDD	40321764	0.316	4.37	0.316	PG/G	U	**U**	
1,2,3,7,8-PeCDF	57117416	0.193	4.37	0.193	PG/G	U	**U**	
2,3,4,6,7,8-HxCDF	60851345	0.258	4.37	0.258	PG/G	U	**U**	
2,3,4,7,8-PeCDF	57117314	0.255	4.37	0.191	PG/G	A	**J**	
2,3,7,8-TCDD	1746016	0.296	0.874	0.296	PG/G	U	**U**	
2,3,7,8-TCDF	51207319	0.502	0.874	0.502	PG/G	EMPC	**UJ**	***III**
OCDD	3268879	49.2	8.74	0.785	PG/G			
OCDF	39001020	2.87	8.74	0.596	PG/G	A	**J**	
Total HpCDDs	37871004	19.6	4.37	0.493	PG/G			
Total HpCDFs	38998753	3.29	4.37	0.281	PG/G	A	**J**	
Total HxCDDs	34465468	2.88	4.37	0.328	PG/G	A	**J**	
Total HxCDFs	55684941	0.977	4.37	0.274	PG/G	A	**J**	
Total PeCDDs	36088229	0.316	4.37	0.316	PG/G	U	**U**	
Total PeCDFs	30402154	2.09	4.37	0.192	PG/G	A	**J**	
Total TCDDs	41903575	0.296	0.874	0.296	PG/G	U	**U**	
Total TCDFs	30402143	0.727	0.874	0.392	PG/G	A	**J**	

Analysis Method 1613B

Sample Name HZBS0082S001 **Matrix Type:** Soil **Result Type:** Primary Result

Lab Sample Name: G341-577-12B **Sample Date:** 2/25/2009 9:00:00 AM **Validation Level:** V

Matrix Type: Soil

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
1,2,3,4,6,7,8-HpCDD	35822469	5.65	4.34	0.494	PG/G			
1,2,3,4,6,7,8-HpCDF	67562394	3.71	4.34	0.284	PG/G	A	**J**	
1,2,3,4,7,8,9-HpCDF	55673897	0.406	4.34	0.406	PG/G	U	**U**	
1,2,3,4,7,8-HxCDD	39227286	0.325	4.34	0.325	PG/G	U	**U**	
1,2,3,4,7,8-HxCDF	70648269	0.648	4.34	0.262	PG/G	A	**J**	
1,2,3,6,7,8-HxCDD	57653857	0.49	4.34	0.338	PG/G	A	**J**	
1,2,3,6,7,8-HxCDF	57117449	0.525	4.34	0.254	PG/G	A	**J**	
1,2,3,7,8,9-HxCDD	19408743	0.341	4.34	0.341	PG/G	EMPC	**UJ**	***III**
1,2,3,7,8,9-HxCDF	72918219	0.328	4.34	0.328	PG/G	U	**U**	
1,2,3,7,8-PeCDD	40321764	0.275	4.34	0.275	PG/G	U	**U**	
1,2,3,7,8-PeCDF	57117416	0.247	4.34	0.244	PG/G	A	**J**	
2,3,4,6,7,8-HxCDF	60851345	0.587	4.34	0.27	PG/G	A	**J**	
2,3,4,7,8-PeCDF	57117314	0.492	4.34	0.492	PG/G	EMPC	**UJ**	***III**
2,3,7,8-TCDD	1746016	0.247	0.869	0.247	PG/G	U	**U**	
2,3,7,8-TCDF	51207319	0.563	0.869	0.52	PG/G	A	**J**	***III**
OCDD	3268879	49.8	8.69	0.863	PG/G			
OCDF	39001020	4.87	8.69	0.608	PG/G	A	**J**	
Total HpCDDs	37871004	20.6	4.34	0.494	PG/G			
Total HpCDFs	38998753	5.61	4.34	0.339	PG/G			
Total HxCDDs	34465468	3.07	4.34	0.333	PG/G	A	**J**	
Total HxCDFs	55684941	5.17	4.34	0.277	PG/G			
Total PeCDDs	36088229	0.275	4.34	0.275	PG/G	U	**U**	
Total PeCDFs	30402154	4.17	4.34	0.243	PG/G	A	**J**	
Total TCDDs	41903575	0.247	0.869	0.247	PG/G	U	**U**	
Total TCDFs	30402143	0.563	0.869	0.52	PG/G	A	**J**	

Analysis Method 1613B

Sample Name HZBS0084S001 **Matrix Type:** Soil **Result Type:** Primary Result

Lab Sample Name: G341-577-13C **Sample Date:** 2/25/2009 8:40:00 AM **Validation Level:** V

Matrix Type: Soil

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
1,2,3,4,6,7,8-HpCDD	35822469	5.53	4.38	0.504	PG/G			
1,2,3,4,6,7,8-HpCDF	67562394	1.42	4.38	0.298	PG/G	A	**J**	
1,2,3,4,7,8,9-HpCDF	55673897	0.441	4.38	0.441	PG/G	U	**U**	
1,2,3,4,7,8-HxCDD	39227286	0.333	4.38	0.333	PG/G	U	**U**	
1,2,3,4,7,8-HxCDF	70648269	0.268	4.38	0.268	PG/G	U	**U**	
1,2,3,6,7,8-HxCDD	57653857	0.452	4.38	0.452	PG/G	EMPC	**UJ**	***III**
1,2,3,6,7,8-HxCDF	57117449	0.256	4.38	0.256	PG/G	U	**U**	
1,2,3,7,8,9-HxCDD	19408743	0.379	4.38	0.327	PG/G	A	**J**	
1,2,3,7,8,9-HxCDF	72918219	0.326	4.38	0.326	PG/G	U	**U**	
1,2,3,7,8-PeCDD	40321764	0.341	4.38	0.341	PG/G	U	**U**	
1,2,3,7,8-PeCDF	57117416	0.158	4.38	0.158	PG/G	U	**U**	
2,3,4,6,7,8-HxCDF	60851345	0.257	4.38	0.257	PG/G	U	**U**	
2,3,4,7,8-PeCDF	57117314	0.333	4.38	0.167	PG/G	A	**J**	
2,3,7,8-TCDD	1746016	0.23	0.877	0.23	PG/G	U	**U**	
2,3,7,8-TCDF	51207319	0.531	0.877	0.389	PG/G	A	**J**	***III**
OCDD	3268879	46.2	8.77	0.79	PG/G			
OCDF	39001020	2.73	8.77	0.597	PG/G	A	**J**	
Total HpCDDs	37871004	18.9	4.38	0.504	PG/G			
Total HpCDFs	38998753	2.74	4.38	0.363	PG/G	A	**J**	
Total HxCDDs	34465468	1.35	4.38	0.325	PG/G	A	**J**	
Total HxCDFs	55684941	1.83	4.38	0.275	PG/G	A	**J**	
Total PeCDDs	36088229	0.341	4.38	0.341	PG/G	U	**U**	
Total PeCDFs	30402154	2.72	4.38	0.196	PG/G	A	**J**	
Total TCDDs	41903575	0.23	0.877	0.23	PG/G	U	**U**	
Total TCDFs	30402143	1.97	0.877	0.389	PG/G			

Analysis Method 1613B

Sample Name HZBS0105S001 **Matrix Type:** Soil **Result Type:** Primary Result

Lab Sample Name: G341-577-3B **Sample Date:** 4/9/2009 8:40:00 AM **Validation Level:** V

Matrix Type: Soil

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
1,2,3,4,6,7,8-HpCDD	35822469	31.7	4.22	0.664	PG/G			
1,2,3,4,6,7,8-HpCDF	67562394	46.8	4.22	0.405	PG/G			
1,2,3,4,7,8,9-HpCDF	55673897	3.49	4.22	0.545	PG/G	A	**J**	
1,2,3,4,7,8-HxCDD	39227286	0.923	4.22	0.402	PG/G	A	**J**	
1,2,3,4,7,8-HxCDF	70648269	7.32	4.22	0.449	PG/G			
1,2,3,6,7,8-HxCDD	57653857	2.41	4.22	2.41	PG/G	EMPC	**UJ**	***III**
1,2,3,6,7,8-HxCDF	57117449	5.4	4.22	0.41	PG/G			
1,2,3,7,8,9-HxCDD	19408743	1.75	4.22	0.401	PG/G	A	**J**	
1,2,3,7,8,9-HxCDF	72918219	1.59	4.22	0.565	PG/G	A	**J**	
1,2,3,7,8-PeCDD	40321764	0.633	4.22	0.282	PG/G	A	**J**	
1,2,3,7,8-PeCDF	57117416	2.1	4.22	0.348	PG/G	A	**J**	
2,3,4,6,7,8-HxCDF	60851345	7.07	4.22	0.449	PG/G			
2,3,4,7,8-PeCDF	57117314	3.91	4.22	0.323	PG/G	A	**J**	
2,3,7,8-TCDD	1746016	0.227	0.844	0.227	PG/G	U	**U**	
2,3,7,8-TCDF	51207319	1.28	0.843	0.516	PG/G			
OCDD	3268879	283	8.44	1.35	PG/G			
OCDF	39001020	51	8.44	0.721	PG/G			
Total HpCDDs	37871004	115	4.22	0.664	PG/G			
Total HpCDFs	38998753	67.4	4.22	0.468	PG/G			
Total HxCDDs	34465468	18.5	4.22	0.4	PG/G			
Total HxCDFs	55684941	56.9	4.22	0.465	PG/G			
Total PeCDDs	36088229	7.3	4.22	0.282	PG/G			
Total PeCDFs	30402154	38.1	4.22	0.335	PG/G			
Total TCDDs	41903575	0.668	0.844	0.227	PG/G	A	**J**	
Total TCDFs	30402143	19.9	0.844	0.314	PG/G			

Analysis Method 1613B

Sample Name HZBS0106S001 **Matrix Type:** Soil **Result Type:** Primary Result

Lab Sample Name: G341-577-4B **Sample Date:** 4/9/2009 8:20:00 AM **Validation Level:** V

Matrix Type: Soil

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
1,2,3,4,6,7,8-HpCDD	35822469	2.64	4.21	0.522	PG/G	A	**J**	
1,2,3,4,6,7,8-HpCDF	67562394	0.473	4.21	0.279	PG/G	A	**J**	
1,2,3,4,7,8,9-HpCDF	55673897	0.399	4.21	0.399	PG/G	U	**U**	
1,2,3,4,7,8-HxCDD	39227286	0.356	4.21	0.356	PG/G	U	**U**	
1,2,3,4,7,8-HxCDF	70648269	0.231	4.21	0.231	PG/G	U	**U**	
1,2,3,6,7,8-HxCDD	57653857	0.387	4.21	0.387	PG/G	U	**U**	
1,2,3,6,7,8-HxCDF	57117449	0.222	4.21	0.222	PG/G	U	**U**	
1,2,3,7,8,9-HxCDD	19408743	0.374	4.21	0.374	PG/G	U	**U**	
1,2,3,7,8,9-HxCDF	72918219	0.272	4.21	0.272	PG/G	U	**U**	
1,2,3,7,8-PeCDD	40321764	0.377	4.21	0.377	PG/G	U	**U**	
1,2,3,7,8-PeCDF	57117416	0.218	4.21	0.218	PG/G	U	**U**	
2,3,4,6,7,8-HxCDF	60851345	0.23	4.21	0.23	PG/G	U	**U**	
2,3,4,7,8-PeCDF	57117314	0.186	4.21	0.186	PG/G	U	**U**	
2,3,7,8-TCDD	1746016	0.263	0.841	0.263	PG/G	U	**U**	
2,3,7,8-TCDF	51207319	0.371	0.841	0.371	PG/G	U	**U**	
OCDD	3268879	14.4	8.41	1.01	PG/G			
OCDF	39001020	1.27	8.41	0.681	PG/G	A	**J**	
Total HpCDDs	37871004	9.36	4.21	0.522	PG/G			
Total HpCDFs	38998753	1.03	4.21	0.334	PG/G	A	**J**	
Total HxCDDs	34465468	1.56	4.21	0.373	PG/G	A	**J**	
Total HxCDFs	55684941	0.271	4.21	0.238	PG/G	A	**J**	
Total PeCDDs	36088229	0.377	4.21	0.377	PG/G	U	**U**	
Total PeCDFs	30402154	0.177	4.21	0.177	PG/G	U	**U**	
Total TCDDs	41903575	0.263	0.841	0.263	PG/G	U	**U**	
Total TCDFs	30402143	0.371	0.841	0.371	PG/G	U	**U**	

Analysis Method 1613B

Sample Name HZBS0106S002 **Matrix Type:** Soil **Result Type:** Primary Result

Lab Sample Name: G341-577-5B **Sample Date:** 4/9/2009 8:30:00 AM **Validation Level:** V

Matrix Type: Soil

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
1,2,3,4,6,7,8-HpCDD	35822469	0.514	4.33	0.496	PG/G	A	**J**	
1,2,3,4,6,7,8-HpCDF	67562394	0.312	4.33	0.312	PG/G	U	**U**	
1,2,3,4,7,8,9-HpCDF	55673897	0.428	4.33	0.428	PG/G	U	**U**	
1,2,3,4,7,8-HxCDD	39227286	0.311	4.33	0.311	PG/G	U	**U**	
1,2,3,4,7,8-HxCDF	70648269	0.22	4.33	0.22	PG/G	U	**U**	
1,2,3,6,7,8-HxCDD	57653857	0.321	4.33	0.321	PG/G	U	**U**	
1,2,3,6,7,8-HxCDF	57117449	0.197	4.33	0.197	PG/G	U	**U**	
1,2,3,7,8,9-HxCDD	19408743	0.318	4.33	0.318	PG/G	U	**U**	
1,2,3,7,8,9-HxCDF	72918219	0.261	4.33	0.261	PG/G	U	**U**	
1,2,3,7,8-PeCDD	40321764	0.249	4.33	0.249	PG/G	U	**U**	
1,2,3,7,8-PeCDF	57117416	0.18	4.33	0.18	PG/G	U	**U**	
2,3,4,6,7,8-HxCDF	60851345	0.204	4.33	0.204	PG/G	U	**U**	
2,3,4,7,8-PeCDF	57117314	0.173	4.33	0.173	PG/G	U	**U**	
2,3,7,8-TCDD	1746016	0.266	0.866	0.266	PG/G	U	**U**	
2,3,7,8-TCDF	51207319	0.348	0.866	0.348	PG/G	U	**U**	
OCDD	3268879	3.58	8.66	1.04	PG/G	A	**J**	
OCDF	39001020	0.89	8.66	0.696	PG/G	A	**J**	
Total HpCDDs	37871004	1.48	4.33	0.496	PG/G	A	**J**	
Total HpCDFs	38998753	0.364	4.33	0.364	PG/G	U	**U**	
Total HxCDDs	34465468	0.317	4.33	0.317	PG/G	U	**U**	
Total HxCDFs	55684941	0.251	4.33	0.219	PG/G	A	**J**	
Total PeCDDs	36088229	0.249	4.33	0.249	PG/G	U	**U**	
Total PeCDFs	30402154	0.169	4.33	0.169	PG/G	U	**U**	
Total TCDDs	41903575	0.266	0.866	0.266	PG/G	U	**U**	
Total TCDFs	30402143	0.348	0.866	0.348	PG/G	U	**U**	

Analysis Method 1613B

Sample Name HZBS0107D001 **Matrix Type:** Soil **Result Type:** Primary Result

Lab Sample Name: G341-577-6B **Sample Date:** 4/9/2009 **Validation Level:** V

Matrix Type: Soil

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
1,2,3,4,6,7,8-HpCDD	35822469	205	4.31	0.882	PG/G			
1,2,3,4,6,7,8-HpCDF	67562394	27.4	4.31	0.296	PG/G			
1,2,3,4,7,8,9-HpCDF	55673897	1.66	4.31	0.436	PG/G	A	**J**	
1,2,3,4,7,8-HxCDD	39227286	2.29	4.31	0.288	PG/G	A	**J**	
1,2,3,4,7,8-HxCDF	70648269	2.01	4.31	0.315	PG/G	A	**J**	
1,2,3,6,7,8-HxCDD	57653857	7.66	4.31	0.285	PG/G			
1,2,3,6,7,8-HxCDF	57117449	1.23	4.31	0.297	PG/G	A	**J**	
1,2,3,7,8,9-HxCDD	19408743	4.84	4.31	0.288	PG/G			
1,2,3,7,8,9-HxCDF	72918219	0.828	4.31	0.397	PG/G	A	**J**	
1,2,3,7,8-PeCDD	40321764	1.11	4.31	0.28	PG/G	A	**J**	
1,2,3,7,8-PeCDF	57117416	0.688	4.31	0.193	PG/G	A	**J**	
2,3,4,6,7,8-HxCDF	60851345	1.6	4.31	0.309	PG/G	A	**J**	
2,3,4,7,8-PeCDF	57117314	1.26	4.31	0.203	PG/G	A	**J**	
2,3,7,8-TCDD	1746016	0.264	0.862	0.264	PG/G	U	**U**	
2,3,7,8-TCDF	51207319	0.723	0.862	0.346	PG/G	A	**J**	***III**
OCDD	3268879	2850	8.62	0.813	PG/G			
OCDF	39001020	102	8.62	0.57	PG/G			
Total HpCDDs	37871004	842	4.31	0.882	PG/G			
Total HpCDFs	38998753	83.2	4.31	0.36	PG/G			
Total HxCDDs	34465468	55.9	4.31	0.287	PG/G			
Total HxCDFs	55684941	36.3	4.31	0.327	PG/G			
Total PeCDDs	36088229	5.31	4.31	0.28	PG/G			
Total PeCDFs	30402154	12.2	4.31	0.198	PG/G			
Total TCDDs	41903575	0.486	0.862	0.264	PG/G	A	**J**	
Total TCDFs	30402143	3.94	0.862	0.346	PG/G			

Analysis Method 1613B

Sample Name HZBS0107S001 **Matrix Type:** Soil **Result Type:** Primary Result

Lab Sample Name: G341-577-7B **Sample Date:** 4/9/2009 8:10:00 AM **Validation Level:** V

Matrix Type: Soil

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
1,2,3,4,6,7,8-HpCDD	35822469	227	4.2	0.668	PG/G			
1,2,3,4,6,7,8-HpCDF	67562394	29.4	4.2	0.403	PG/G			
1,2,3,4,7,8,9-HpCDF	55673897	1.62	4.2	0.567	PG/G	A	**J**	
1,2,3,4,7,8-HxCDD	39227286	2.33	4.2	0.402	PG/G	A	**J**	
1,2,3,4,7,8-HxCDF	70648269	2.11	4.2	0.402	PG/G	A	**J**	
1,2,3,6,7,8-HxCDD	57653857	8.03	4.2	0.427	PG/G			
1,2,3,6,7,8-HxCDF	57117449	1.19	4.2	0.354	PG/G	A	**J**	
1,2,3,7,8,9-HxCDD	19408743	4.99	4.2	0.418	PG/G			
1,2,3,7,8,9-HxCDF	72918219	0.86	4.2	0.481	PG/G	A	**J**	
1,2,3,7,8-PeCDD	40321764	1.18	4.2	0.292	PG/G	A	**J**	
1,2,3,7,8-PeCDF	57117416	0.734	4.2	0.26	PG/G	A	**J**	
2,3,4,6,7,8-HxCDF	60851345	1.66	4.2	0.379	PG/G	A	**J**	
2,3,4,7,8-PeCDF	57117314	1.4	4.2	0.244	PG/G	A	**J**	
2,3,7,8-TCDD	1746016	0.275	0.84	0.275	PG/G	U	**U**	
2,3,7,8-TCDF	51207319	0.783	0.84	0.25	PG/G	A	**J**	***III**
OCDD	3268879	3060	8.4	0.779	PG/G			
OCDF	39001020	103	8.4	0.589	PG/G			
Total HpCDDs	37871004	919	4.2	0.668	PG/G			
Total HpCDFs	38998753	90.1	4.2	0.477	PG/G			
Total HxCDDs	34465468	59.3	4.2	0.416	PG/G			
Total HxCDFs	55684941	39.9	4.2	0.401	PG/G			
Total PeCDDs	36088229	5.65	4.2	0.292	PG/G			
Total PeCDFs	30402154	13.8	4.2	0.252	PG/G			
Total TCDDs	41903575	0.539	0.84	0.275	PG/G	A	**J**	
Total TCDFs	30402143	4.16	0.84	0.409	PG/G			

Analysis Method 6020

Sample Name CNBS0131S001 **Matrix Type:** SOIL **Result Type:** Primary Result

Lab Sample Name: 227874001 **Sample Date:** 4/9/2009 2:35:00 PM **Validation Level:** V

Matrix Type: SOIL

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Copper	7440508	9.29	0.206	0.0413	mg/kg			
Lead	7439921	35.1	0.402	0.101	mg/kg			

Sample Name EBQW2207 **Matrix Type:** WATER **Result Type:** Primary Result

Lab Sample Name: 227874002 **Sample Date:** 4/9/2009 9:40:00 AM **Validation Level:** V

Matrix Type: WATER

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Copper	7440508	0.73	1	0.3	ug/L	J	**J**	
Lead	7439921	0.5	2	0.5	ug/L	U	**U**	

Sample Name HZBS0062S001 **Matrix Type:** SOIL **Result Type:** Primary Result

Lab Sample Name: 227874008 **Sample Date:** 2/24/2009 11:01:00 AM **Validation Level:** V

Matrix Type: SOIL

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Copper	7440508	12.3	0.216	0.0433	mg/kg			

Sample Name HZBS0069S001 **Matrix Type:** SOIL **Result Type:** Primary Result

Lab Sample Name: 227874009 **Sample Date:** 2/25/2009 12:51:00 PM **Validation Level:** V

Matrix Type: SOIL

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Copper	7440508	6.32	0.203	0.0407	mg/kg			

Sample Name HZBS0080S001 **Matrix Type:** SOIL **Result Type:** Primary Result

Lab Sample Name: 227874010 **Sample Date:** 2/25/2009 10:02:00 AM **Validation Level:** V

Matrix Type: SOIL

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Copper	7440508	0.404	0.226	0.0451	mg/kg			

Analysis Method 6020

Sample Name HZBS0082S001 **Matrix Type:** SOIL **Result Type:** Primary Result

Lab Sample Name: 227874011 **Sample Date:** 2/25/2009 9:00:00 AM **Validation Level:** V

Matrix Type: SOIL

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Copper	7440508	0.328	0.328	0.328	mg/kg		U	B, RL changed from 0.224 and MDL from 0.0449

Sample Name HZBS0084S001 **Matrix Type:** SOIL **Result Type:** Primary Result

Lab Sample Name: 227874012 **Sample Date:** 2/25/2009 8:40:00 AM **Validation Level:** V

Matrix Type: SOIL

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Copper	7440508	1.32	0.226	0.0453	mg/kg			