

Chain of Custody and Supporting Documentation

relog 2288(84)
225100



CHAIN OF CUSTODY RECORD

COC #:

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	Requested Analyses 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.				
Address:	2121 N. California Blvd	Project Manager:	Alex Fischl					
	Suite 600	PM Phone #:	(925) 627-4627					
	Walnut Creek	Field Contact:	Brian Mantasin					
	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 28407					
		Lab Phone:	(843) 769-7388					
Sample Name	Matrix	Date	Time	No. of Containers	Requested Analyses			Comments
EBQW2204	Water	2/24/2009	15:15	3	Dioxin by 1613B - Soil	10	10	
FBQW2229	Water	2/24/2009	15:00	3	Dioxin by 1613B - Water	10	10	
HZBS0082S001	Soil	2/24/2009	11:01	1	D2216 Moisture Soil	10	10	Batch # 010709007WF173
HZBS0083S001	Soil	2/24/2009	11:48	1	Metals 6020 Cu Water	10	10	
HZBS0084S001	Soil	2/24/2009	10:28	2	Metals 6020 Cd Water	10	10	
HZBS0085S001	Soil	2/24/2009	11:39	1	Metals 6020 Soil Arsenic	10	10	
HZBS0087D001	Soil	2/24/2009	0:00	1	Metals 6020 Soil Lead	10	10	
HZBS0087S001	Soil	2/24/2009	8:20	1	Metals 6020 Soil Cadmium	10	10	
HZBS0070S001	Soil	2/24/2009	14:45	2	Metals 6020 Soil Copper	10	10	
HZBS0073S001	Soil	2/24/2009	8:47	2	Metals 6020 Soil Zinc	10	10	
1. Relinquished by:		Date:	2/24/09		3. Relinquished by:			Date:
B.A.O.		Time:	16:15		4. Received by:			Date:
Company: MWH		Company:	GEL		Company:			Time:
2/24/09		2/25/09	11:48		Company:			Time:
16:15		08:40	8:47		Company:			Time:
Comments: <input type="checkbox"/> Geotracker EDF <input checked="" type="checkbox"/> Data Validation Package <input checked="" type="checkbox"/> Level IV								

rel 09 - 2288184
225106

COC #:

CHAIN OF CUSTODY RECORD



Customer 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	Requested Analyses			
Address:	2121 N. California Blvd	Project Manager:	Alex Fischl	Dioxin by 1613B - Water			
	Suite 600	PM Phone #:	(925) 627-4627	Dioxin by 1613B - Soil	H 10		
	Walnut Creek	Field Contact:	Brian Mantash	D2216 Moisture Soil	H 10		
	CA	Field Contact #:	(323) 304-4989	Metals 6020 Soil Lead	H 10	10	10
	94596	Lab Name:	GEL Laboratories, LLC	Metals 6020 Soil Copper		10	10
		Lab Contact:	Cheryl Jones	Metals 6020 Soil Cadmium		10	10
		Lab Address:	2040 Savage Road	Metals 6020 Soil Arsenic		10	10
		Lab Phone:	Charleston, SC 29407	Metals 6020 Cu Water		10	10
			(843) 769-7388	Metals 6020 Cd Water		10	10
				Metals 6020 Zn Water		10	10
				Metals 6020 Water Lead		10	10
				Metals 6020 Water Arsenic		10	10
				Metals 6020 Soil Zinc		10	10
				Metals 6020 Soil Lead		10	10
				Metals 6020 Soil Copper		10	10
				Metals 6020 Soil Cadmium		10	10
				Metals 6020 Soil Arsenic		10	10
				Metals 6020 Cu Water		10	10
				Metals 6020 Cd Water		10	10
				Metals 6020 Zn Water		10	10
				Metals 6020 Water Lead		10	10
				Metals 6020 Water Arsenic		10	10
				Metals 6020 Soil Zinc		10	10
				Metals 6020 Soil Lead		10	10
				Metals 6020 Soil Copper		10	10
				Metals 6020 Soil Cadmium		10	10
				Metals 6020 Soil Arsenic		10	10
				Metals 6020 Cu Water		10	10
				Metals 6020 Cd Water		10	10
				Metals 6020 Zn Water		10	10
				Metals 6020 Water Lead		10	10
				Metals 6020 Water Arsenic		10	10
				Metals 6020 Soil Zinc		10	10
				Metals 6020 Soil Lead		10	10
				Metals 6020 Soil Copper		10	10
				Metals 6020 Soil Cadmium		10	10
				Metals 6020 Soil Arsenic		10	10
				Metals 6020 Cu Water		10	10
				Metals 6020 Cd Water		10	10
				Metals 6020 Zn Water		10	10
				Metals 6020 Water Lead		10	10
				Metals 6020 Water Arsenic		10	10
				Metals 6020 Soil Zinc		10	10
				Metals 6020 Soil Lead		10	10
				Metals 6020 Soil Copper		10	10
				Metals 6020 Soil Cadmium		10	10
				Metals 6020 Soil Arsenic		10	10
				Metals 6020 Cu Water		10	10
				Metals 6020 Cd Water		10	10
				Metals 6020 Zn Water		10	10
				Metals 6020 Water Lead		10	10
				Metals 6020 Water Arsenic		10	10
				Metals 6020 Soil Zinc		10	10
				Metals 6020 Soil Lead		10	10
				Metals 6020 Soil Copper		10	10
				Metals 6020 Soil Cadmium		10	10
				Metals 6020 Soil Arsenic		10	10
				Metals 6020 Cu Water		10	10
				Metals 6020 Cd Water		10	10
				Metals 6020 Zn Water		10	10
				Metals 6020 Water Lead		10	10
				Metals 6020 Water Arsenic		10	10
				Metals 6020 Soil Zinc		10	10
				Metals 6020 Soil Lead		10	10
				Metals 6020 Soil Copper		10	10
				Metals 6020 Soil Cadmium		10	10
				Metals 6020 Soil Arsenic		10	10
				Metals 6020 Cu Water		10	10
				Metals 6020 Cd Water		10	10
				Metals 6020 Zn Water		10	10
				Metals 6020 Water Lead		10	10
				Metals 6020 Water Arsenic		10	10
				Metals 6020 Soil Zinc		10	10
				Metals 6020 Soil Lead		10	10
				Metals 6020 Soil Copper		10	10
				Metals 6020 Soil Cadmium		10	10
				Metals 6020 Soil Arsenic		10	10
				Metals 6020 Cu Water		10	10
				Metals 6020 Cd Water		10	10
				Metals 6020 Zn Water		10	10
				Metals 6020 Water Lead		10	10
				Metals 6020 Water Arsenic		10	10
				Metals 6020 Soil Zinc		10	10
				Metals 6020 Soil Lead		10	10
				Metals 6020 Soil Copper		10	10
				Metals 6020 Soil Cadmium		10	10
				Metals 6020 Soil Arsenic		10	10
				Metals 6020 Cu Water		10	10
				Metals 6020 Cd Water		10	10
				Metals 6020 Zn Water		10	10
				Metals 6020 Water Lead		10	10
				Metals 6020 Water Arsenic		10	10
				Metals 6020 Soil Zinc		10	10
				Metals 6020 Soil Lead		10	10
				Metals 6020 Soil Copper		10	10
				Metals 6020 Soil Cadmium		10	10
				Metals 6020 Soil Arsenic		10	10
				Metals 6020 Cu Water		10	10
				Metals 6020 Cd Water		10	10
				Metals 6020 Zn Water		10	10
				Metals 6020 Water Lead		10	10
				Metals 6020 Water Arsenic		10	10
				Metals 6020 Soil Zinc		10	10
				Metals 6020 Soil Lead		10	10
				Metals 6020 Soil Copper		10	10
				Metals 6020 Soil Cadmium		10	10
				Metals 6020 Soil Arsenic		10	10
				Metals 6020 Cu Water		10	10
				Metals 6020 Cd Water		10	10
				Metals 6020 Zn Water		10	10
				Metals 6020 Water Lead		10	10
				Metals 6020 Water Arsenic		10	10
				Metals 6020 Soil Zinc		10	10
				Metals 6020 Soil Lead		10	10
				Metals 6020 Soil Copper		10	10
				Metals 6020 Soil Cadmium		10	10
				Metals 6020 Soil Arsenic		10	10
				Metals 6020 Cu Water		10	10
				Metals 6020 Cd Water		10	10
				Metals 6020 Zn Water		10	10
				Metals 6020 Water Lead		10	10
				Metals 6020 Water Arsenic		10	10
				Metals 6020 Soil Zinc		10	10
				Metals 6020 Soil Lead		10	10
				Metals 6020 Soil Copper		10	10
				Metals 6020 Soil Cadmium		10	10
				Metals 6020 Soil Arsenic		10	10
				Metals 6020 Cu Water		10	10
				Metals 6020 Cd Water		10	10
				Metals 6020 Zn Water		10	10
				Metals 6020 Water Lead		10	10
				Metals 6020 Water Arsenic		10	10
				Metals 6020 Soil Zinc		10	10
				Metals 6020 Soil Lead		10	10
				Metals 6020 Soil Copper		10	10
				Metals 6020 Soil Cadmium		10	10
				Metals 6020 Soil Arsenic		10	10
				Metals 6020 Cu Water		10	10
				Metals 6020 Cd Water		10	10
				Metals 6020 Zn Water		10	10
				Metals 6020 Water Lead		10	10
				Metals 6020 Water Arsenic		10	10
				Metals 6020 Soil Zinc		10	10
				Metals 6020 Soil Lead		10	10
				Metals 6020 Soil Copper		10	10
				Metals 6020 Soil Cadmium		10	10
				Metals 6020 Soil Arsenic		10	10
				Metals 6020 Cu Water		10	10
				Metals 6020 Cd Water		10	10
				Metals 6020 Zn Water		10	10
				Metals 6020 Water Lead		10	10
				Metals 6020 Water Arsenic		10	10
				Metals 6020 Soil Zinc		10	10
				Metals 6020 Soil Lead		10	10
				Metals 6020 Soil Copper		10	10
				Metals 6020 Soil Cadmium		10	10
				Metals 6020 Soil Arsenic		10	10
				Metals 6020 Cu Water		10	10
				Metals 6020 Cd Water		10	10
				Metals 6020 Zn Water		10	10
				Metals 6020 Water Lead		10	10
				Metals 6020 Water Arsenic		10	10
				Metals 6020 Soil Zinc		10	10
				Metals 6020 Soil Lead		10	10
				Metals 6020 Soil Copper		10	10
				Metals 6020 Soil Cadmium		10	10
				Metals 6020 Soil Arsenic		10	10
				Metals 6020 Cu Water		10	10
				Metals 6020 Cd Water		10	10
				Metals 6020 Zn Water		10	10
				Metals 6020 Water Lead		10	10
				Metals 6020 Water Arsenic		10	10
				Metals 6020 Soil Zinc		10	10
				Metals 6020 Soil Lead		10	10
				Metals 6020 Soil Copper		10	10
				Metals 6020 Soil Cadmium		10	10
				Metals 6020 Soil Arsenic		10	10
				Metals 6020 Cu Water		10	10
				Metals 6020 Cd Water		10	10
				Metals 6020 Zn Water		10	10
				Metals 6020 Water Lead		10	10
				Metals 6020 Water Arsenic		10	10
				Metals 6020 Soil Zinc		10	10
				Metals 6020 Soil Lead		10	10
				Metals 6020 Soil Copper		10	10

18/05-2288(BH)

Customer Information		Project Information		Project Information	
Site: SSFL	Client Name: Boeing	Collector: A. Leavitt	Boeing PM:		
Company: MWH	Sampling Event: ISRA Sampling, Feb 2008	Contact #:			
Report to: Sarah Von Raesfeld	Project Number: 1681614060104				
Address: 2121 N. California Blvd	Project Manager: Alex Flechl				
	PM Phone #: (828) 627-4627				
	Field Contact: Brian Metcalf				
	Field Contact #: (323) 304-4888				
	Lab Name: GEL Laboratories, LLC				
	Lab Contact: Cheryl Jones				
	Lab Address: 2040 Savage Road				
	Lab Phone: Charleston, SC 29407				
	Lab Phone: (843) 788-7366				
Sample Name	Matrix	Date	Time	No. of Containers	
H2B60665001	Soil	2/24/2008	13:40	1	
		Requested Analyzes		Instructions/TAT	
		Metals 6020 Zn Water		Legend: Numerical values for analyses equate to turn around time in days	
		Metals 6020 Water Lead		H = Hold	
		Metals 6020 Water Arsenic		EH = Extract/Exclude & Hold	
		Metals 6020 Soil Zinc		Note: Values in the cells below are Turn-Around Times.	
		Metals 6020 Soil Lead		10	
		Metals 6020 Soil Copper		10	
		Metals 6020 Soil Cadmium		10	
		Metals 6020 Soil Arsenic		10	
		Metals 6020 Cu Water			
		Metals 6020 Cd Water			
		Diodes by 1613B - Water			
		Diodes by 1613B - Soil			
		D2276 Moisture Soil		10	

1. Relinquished by:		Date:	2/24/09	2. Relinquished by:	Date:	2/25/09
Company: MWH		Time: 1615	Company: GEL	3. Relinquished by:		Date:
Comments:				4. Received by:		Date:
				Company:		Time:
				Time: 0840		Company:
				Date Validation Package <input checked="" type="checkbox"/>		Level IV <input type="checkbox"/>
				Geotracker EDF <input type="checkbox"/>		



SAMPLE RECEIPT & REVIEW FORM

Client: <u>SSFL</u>		SDG/ARCO/Work Order: <u>225106 relg-2288184</u>	
Received By: <u>Riky Albee</u>		Date Received: <u>2/25/09</u>	
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*: <u>60 cpm</u>
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: <u>3" 4" ice bags</u> blue ice dry ice none other (describe)
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: <u>See comments</u>
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: Eed G 9457 3158 4163-3"
9457 3158 4174-4"
 * Did not receive HZB500905001SP (page 3 of coc)
 Received HZB500955001, not on coc. 1 container, collected @ 1340 2/24/09

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

2251704-releas 228818 H



CHAIN OF CUSTODY RECORD

COC #: MWHAL20090225_00
Page: 2 of 3

Customer Information		Project Information				Project Information		Requested Analyses		Instructions/TAT									
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 Fiechl																		
	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																		
	Lab Phone: (843) 769-7388																		
	Email: sarah.vonraesfeld@mwhglobal.c																		
	sean.leffler@mwhglobal.com																		
Sample Name	Matrix	Date	Time	No. of Containers	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	10						
HZBS0074S001	Soil	2/25/2009	11:52	1	10					10		10	10						
HZBS0076S001	Soil	2/25/2009	13:40	1	H							H	H						
HZBS0076S001	Soil	2/25/2009	10:39	1	10							10	10						
HZBS0077S001	Soil	2/25/2009	10:16	2	H							H	H						
HZBS0078S001	Soil	2/25/2009	10:28	1	10							10	10						
HZBS0080S001	Soil	2/25/2009	10:02	1	10							10	10						
HZBS0081S001	Soil	2/25/2009	9:42	2	H							H	H						
HZBS0082S001	Soil	2/25/2009	9:00	1	10							10	10						
HZBS0082S002	Soil	2/25/2009	9:08	1	H							H	H						
1. Relinquished by: <i>BRD</i>		Date: 2/25/09	2. Received by: <i>Richard Adkin</i>		Date: 2/26/09	3. Relinquished by:		Date:	4. Received by:		Date:								
Company: MWH		Time: 1630	Company: GEL		Time: 0845	Company:		Time:	Company:		Time:								
Comments: Geotracker EDF Data Validation Package ✓ Level IV																			

2251707-relg-2288184



CHAIN OF CUSTODY RECORD

COC #: MWHAL20090225_00
Page: 3 of 3

Customer Information			Project Information		
Site:	SSFL	Boeing	Collector:	A. Leavitt	Boeing PM:
Company:	MWH	Sampling Event:	ISRA Sampling, Feb 2009	Contact #:	
Report to:	Sarah Von Raesfeld	Project Number:	1891614.050104	Requested Analyses	
Address:	2121 N. California Blvd	Project Manager:	Alex Fischl	Dioxin by 1613B - Water	
	Suite 600	PM Phone #:	(925) 627-4627	Dioxin by 1613B - Soil	
	Walnut Creek	Field Contact:	Brian Mantasin	D2216 Moisture Soil	H
	CA	Field Contact #:	(323) 304-4969	Metals 6020 Soil Zinc	
	94598	Lab Name:	GEL Laboratories, LLC	Metals 6020 Soil Lead	H 10
Email:	sarah.vonraesfeld@mwhglobal.c	Lab Contact:	Cheryl Jones	Metals 6020 Soil Copper	
	sean.leffler@mwhglobal.com	Lab Address:	2040 Savage Road	Metals 6020 Soil Cadmium	
		Lab Phone:	Charleston, SC 29407	Metals 6020 Soil Arsenic	10 10 10 10
			(843) 769-7388	Metals 6020 Cu Water	
				Metals 6020 Cd Water	
Sample Name	Matrix	Date	Time	No. of Containers	Comments
HZBS0083S001	Soil	2/25/2009	8:51	1	
HZBS0084S001	Soil	2/25/2009	8:40	1	
HZBS0085S001	Soil	2/25/2009	12:00	1	
HZBS0082S001	Soil	2/25/2009	8:13	1	
HZBS0086S001	Soil	2/25/2009	11:45	1	
HZBS0097S001	Soil	2/25/2009	12:11	1	

Instructions/TAT
Legend:
Numerical values for analyses equate to turn around time in days
H - Hold
EH - Extract/Extract & Hold
Note: Values in the cells below are Turn Around Times.

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

Comments: Geotracker EDF Data Validation Package ✓ Level IV

Client: SSFL SDG/ARCOC/Work Order: 225170 re log 2288184

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?		<input checked="" type="checkbox"/>	Maximum Counts Observed*: <u>60 CPM</u>
Classified Radioactive II or III by RSO?		<input checked="" type="checkbox"/>	
COC/Samples marked containing PCBs?		<input checked="" type="checkbox"/>	
Shipped as a DOT Hazardous?		<input checked="" type="checkbox"/>	Hazard Class Shipped: UN#:
Samples identified as Foreign Soil?		<input checked="" type="checkbox"/>	

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

Comments: FedEx 9457 3158 4196-3rd
9457 3158 4185-1st

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

Subject: FW: ISRA Samples
From: Sarah Von Raesfeld <Sarah.E.VonRaesfeld@us.mwhglobal.com>
Date: Thu, 30 Apr 2009 13:51:05 -0600
To: Cheryl Jones <cj@gel.com>
CC: Jackie Trudell <jacqueline.trudell@gel.com>

Hi Cheryl,

Please also analyze HZBS0091S001 for dioxins.



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: Sarah Von Raesfeld
Sent: Thursday, April 30, 2009 10:24 AM
To: 'Cheryl Jones'
Cc: Jackie Trudell
Subject: FW: ISRA Samples

Hi Cheryl,

Please analyze the ISRA samples as described below.

Thanks,
Sarah

From: Alexander Fischl
Sent: Tuesday, April 28, 2009 12:46 PM
To: Sarah Von Raesfeld
Subject: ISRA Samples

Hi Sarah,

Please request the following analyses for samples previously collected for the ISRA project:

- HZBS0064S001 – dioxins
- HZBS0081S001 – copper, lead, dioxins
- HZBS0082S002 – copper, lead, dioxins

Standard TAT.

Thank you,



Alex Fischl, P.M.P
Project Manager /
Environmental Scientist
MWH Americas, Inc.
2121 N. California Blvd.
Suite 600
Walnut Creek, CA 94596

Telephone: 925 627 4500
Direct Line: 925 627 4627
Cell Phone: 925 997 7384
Fax: 925 627 4501

BUILDING A BETTER WORLD

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: 05/01/09

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: 7

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	HZBS0064S001	02/24/09		Run dioxins
MWHAL20090224_00	HZBS0091S001	02/24/09		Run dioxins
MWHAL20090225_00	HZBS0081S001	02/25/09		Run copper, lead, dioxins, and % moisture
MWHAL20090225_00	HZBS0082S002	02/25/09		Run copper, lead, dioxins, and % moisture

The reason for these changes:

Incorrectly marked on COC form

Lack of sample volume

Change in analytical request

Other:

 X

 *SR

Thank you

225106

MWHAL20090224_00

Page: 1 of 3

COC #:

CHAIN OF CUSTODY RECORD

Customer Information		Project 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 Fisch								
	Suite 600	PM Phone #:	(925) 627-4627								
	Walnut Creek	Field Contact:	Brian Martasin								
	CA	Field Contact #:	(323) 304-4989								
	94598	Lab Name:	GEL Laboratories, LLC								
Email:	sarah.vonraesfeld@mwhglobal.com	Lab Contact:	Cheryl Jones								
	sean.leifer@mwhglobal.com	Lab Address:	2040 Savage Road								
		Lab Phone:	Charleston, SC 29407								
			(843) 769-7388								
Sample Name	Matrix	Date	Time	No. of Containers							
EBQW2204	Water	2/24/2009	15:15	3							
FBCW2229	Water	2/24/2009	15:00	3							
HZBS0062S001	Soil	2/24/2009	11:01	1							
HZBS0063S001	Soil	2/24/2009	11:46	1							
HZBS0064S001	Soil	2/24/2009	10:28	2							
HZBS0065S001	Soil	2/24/2009	11:39	1							
HZBS0067D001	Soil	2/24/2009	0:00	1							
HZBS0067S001	Soil	2/24/2009	8:20	1							
HZBS0070S001	Soil	2/24/2009	14:45	2							
HZBS0073S001	Soil	2/24/2009	8:47	2							
1. Relinquished by:		Date:	2/24/09		3. Relinquished by:		Date:	2/24/09		4. Received by:	
B. A. O.		Time:	16:15		Company:		Time:	08:40		Company:	
Company:		MWH		Company:		Company:		Company:		Company:	
Comments:											

Geotracker EDF Data Validation Package Level IV

③ SWR 04/14/09
④ SWR 05/01/09

BOEING

CHAIN OF CUSTODY RECORD

COC #:

225106

MWHAL20090224_00

Page: 2 of 3

Customer Information		Project Information				Project Information		Requested Analyses		Instructions/TAT						
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 Flach													
	Suite 800	PM Phone #:	(925) 827-4827													
	Walnut Creek	Field Contact:	Brian Marías													
	CA	Field Contact #:	(323) 304-4989													
	94598	Lab Name:	GEL Laboratories, LLC													
Email:	sarah.vonraesfeld@mwhglobal.c	Lab Contact:	Cheryl Jones													
	sean.leffer@mwhglobal.com	Lab Address:	2040 Savage Road													
		Lab Phone:	Charleston, SC 29407													
			(843) 769-7388													
Sample Name	Matrix	Date	Time	No. of Containers	Dioxin by 1613B - Soil	Dioxin by 1613B - 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				
HZBS0087S001	Soil	2/24/2009	13:18	1	10						10	10				
HZBS0088D001	Soil	2/24/2009	0:00	1	10						10	10				
HZBS0088S001	Soil	2/24/2009	13:59	1	10						10	10				
HZBS0089S001	Soil	2/24/2009	10:51	2	10						10	10				
HZBS0090S001	Soil	2/24/2009	10:08	2	10						10	10				
HZBS0091S001	Soil	2/24/2009	11:13	1	10						10	10				
HZBS0093S001	Soil	2/24/2009	13:33	1	10						10	10				
HZBS0094S001	Soil	2/24/2009	12:58	2	10						10	10				MS/MSD
1. Relinquished by:		Date:	2. Received by:		Date:	3. Relinquished by:		Date:	4. Received by:		Date:					
Sarah Von Raesfeld		2/24/09	Alex Flach		2/25/09	Cheryl Jones		2/25/09	Brian Marías		2/25/09					
Company:	MWH	Time:	1615	Company:	GR	Time:	0840	Company:		Time:		Company:		Time:		
Comments:																
① SWR 02/26/09																
② SWR 03/23/09																
④ SWR 05/01/09																

Geotracker EDF
Data Validation Package Level IV

CHAIN OF CUSTODY RECORD

Customer Information		Project Information		Project Information	
Site:	SSFL	Client Name:	Boeing	Collector:	A. Leavitt
Company:	MWH	Sampling Event:	ISRA Sampling, Feb 2008	Contact #:	
Report to:	Sarah Von Rasefeld	Project Number:	18P1614-050104	Requested Analytes	
Address:	2121 N. California Blvd	Project Manager:	Alex Flecht		
	Suite B00	PIM Phone #:	(825) 627-4627		
	Walnut Creek	Field Contact:	Brian Martain		
	CA	Field Contact #:	(323) 304-4669		
	94596	Lab Name:	GEL Laboratories, LLC		
Email:	sarah.vonrasefeld@mwhglobal.com	Lab Contact:	Cheryl Jones		
	sean.leavitt@mwhglobal.com	Lab Address:	2040 Savage Road		
		Lab Phone:	Charleston, SC 29407		
			(843) 788-7356		
Sample Name		Matrix		Date	Time
H2BSub665001	Soil			2/24/09	13:40
					No. of Containers
					1
				Instructions/TAT	
				Legend: Numerical values for analyses equate to turn around time in days	
				H - Hold EH - Extract/Exclude & Hold	
				Note: Values in the cells below are Turn Around Times.	
				Comments	
				Metals 6020 Zn Water	
				Metals 6020 Water Lead	
				Metals 6020 Water Arsenic	
				Metals 6020 Soil Zinc	
				Metals 6020 Soil Lead	
				Metals 6020 Soil Copper	
				Metals 6020 Soil Cadmium	
				Metals 6020 Soil Arsenic	
				Metals 6020 Cu Water	
				Metals 6020 Cd Water	
				Dioxin by 1613B - Water	
				Dioxin by 1613B - Soil	
				02216 Moisture Soil	

1. Relinquished by:	Date:	2. Received by:	Date:	3. Relinquished by:	Date:	4. Received by:	Date:
	2/24/09		2/25/09				
Company:	Time:	Company:	Time:	Company:	Time:	Company:	Time:
MWH	1615	GEL	0840				
Comments:							
Contractor EDF <input type="checkbox"/>							
Data Validation Package <input checked="" type="checkbox"/> Level IV							

2251707

MWHL20090225_00
Page: 3 of 3

COC #:

CHAIN OF CUSTODY RECORD

Customer 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 Reasfield	Project Number: 1891614.050104	Requested Analyses	
Address: 2121 N. California Blvd	Project Manager: Alex Fischl	Dioxin by 16138 - Soil	10 10 10 10 10 10 10 10 10 10 10
Suite 800	PM Phone #: (925) 627-4627	Dioxin by 16138 - Water	10 10 10 10 10 10 10 10 10 10 10
Walnut Creek	Field Contact: Brian Mantasin	Metals 6020 Soil Arsenic	10 10 10 10 10 10 10 10 10 10 10
CA	Field Contact #: (323) 304-4969	Metals 6020 Soil Cadmium	10 10 10 10 10 10 10 10 10 10 10
94596	Lab Name: GEL Laboratories, LLC	Metals 6020 Soil Copper	10 10 10 10 10 10 10 10 10 10 10
sarah.vonreasfield@mwhglobal.com	Lab Contact: Cheryl Jones	Metals 6020 Soil Lead	10 10 10 10 10 10 10 10 10 10 10
sean.keller@mwhglobal.com	Lab Address: 2040 Savage Road	Metals 6020 Soil Zinc	10 10 10 10 10 10 10 10 10 10 10
	Lab Phone: Charleston, SC 29407	Metals 6020 Water Arsenic	10 10 10 10 10 10 10 10 10 10 10
		Metals 6020 Water Lead	10 10 10 10 10 10 10 10 10 10 10
		Metals 6020 Water Zn Water	10 10 10 10 10 10 10 10 10 10 10

Sample Name	Matrix	Date	Time	No. of Containers	Instructions/TAT	Comments
HZBS0003S001	Soil	2/25/2009	8:51	1		
HZBS0004S001	Soil	2/25/2009	8:40	1		
HZBS0008S001	Soil	2/25/2009	12:00	1		
HZBS0009S001	Soil	2/25/2009	8:13	1		
HZBS0009S001	Soil	2/25/2009	11:45	1		
HZBS0007S001	Soil	2/25/2009	12:11	1		

1. Relinquished by: <i>B-10</i>	Date: 2/25/09	2. Received by: <i>Richard Acker</i>	Date: 2/26/09	3. Relinquished by:	Date:	4. Received by:	Date:
Company: MWH	Time: 1630	Company: GEL	Time: 0845	Company:	Company:	Company:	Time:
Comments:							

- ① SWL 02/26/09
- ② SWL 03/23/09
- ③ SWL 04/14/09

Geotracker EDF
Data Validation Package Level IV

LABORATORY TASK ORDER (LTO) FORM

INSTRUCTIONS: To be completed by Environmental Contractor & Emailed to Laboratory Project Manager, CH2M HILL (boeingdms@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:

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

SAMPLE CONTAINER ORDER FORM

Date Required: 02/19/09 _____

Requested Analyses: _____ (Specify # of Samples)

Date Sample Pickup: NA _____

Ship Containers To:
 Project Site (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 (select all applicable)
 Water (select all applicable)
 Vapor _____ (select all applicable)

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

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

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) (enter "X")
 # of Copies Reports Req.: 1

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)

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
Address: 2121 N. California Blvd. Ste. 600
Walnut Creek, CA 94596

Contract Laboratory: GEL
Address: 2040 Savage Rd.
Charleston, SC 29407

Contact Name: Sarah Von Raesfeld
Phone Number: 925-627-4654
Fax Number: 925-627-4501
E-mail Address: Sarah.VonRaesfeld@mwhglobal.com

Lab Contact Name: Cheryl Jones
Phone Number: 843-769-7388
Fax Number: 843-766-1178
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)	--	--	--

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Case Narrative

**Case Narrative
for
Boeing - Santa Susanna Field Laboratory
Work Order: 228818
SDG: 228818H**

May 12, 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 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:

<u>Laboratory Identification</u>	<u>Sample Description</u>
228818001	HZBS0091S001
228818002	HZBS0064S001
228818003	HZBS0081S001
228818004	HZBS0082S002

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 and SGS Laboratories (Dioxins).

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 12 May 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: 228818H

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: 228818H
Project Manager: Dixie Hambrick
Matrix: soil
QC Level: V
No. of Samples: 4
No. of Reanalyses/Dilutions: 0
Laboratory: GEL

Table 1. Sample Identification

<i>Sample Name</i>	<i>Lab Name</i>	<i>Sample</i>	<i>Sub-Lab Sample Name</i>	<i>Matrix</i>	<i>Collection</i>	<i>Method</i>
HZBS0081S001	228818003		G341-579-3B	Soil	2/25/2009 9:42:00 AM	6020
HZBS0082S002	228818004		G341-579-4B	Soil	2/25/2009 9:08:00 AM	6020
HZBS0064S001	228818002		G341-579-1B	Soil	2/24/2009 10:28:00 AM	1613B
HZBS0091S001	228818001		G341-579-2B	Soil	2/24/2009 11:13:00 AM	1613B

II. Sample Management

No anomalies were observed regarding sample management. One of the coolers 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 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 18, 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: OCDD was reported at 0.8588 pg/g and 2,3,7,8-TCDF was identified as an EMPC in the method blank. The OCDD sample detects above the adjusted RL exceeded five times the concentration of OCDD in the method blank and required no qualification. There were no other applicable detects. The method blank had no other 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.
- 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 FBQW2229 (225106) was the field blank and EBQW2205 (225170) was the equipment rinsate sample identified for this SDG. There were no detects above the EDL in the field QC samples.
 - Field Duplicates: There were no field duplicate samples identified for this SDG.
- 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. It should be noted that quantitative interference that was observed in the samples of this SDG was also present in several of the internal standard recoveries, suggesting a possible matrix affect on the internal standards.

- **Compound Identification:** Review is not applicable at a Level V validation. Confirmation analysis was not performed by the laboratory for 2,3,7,8-TCDF; therefore, the detects for 2,3,7,8-TCDF were qualified as estimated, "J," in the samples of this SDG. The laboratory analyzed for polychlorinated dioxins/furans by EPA Method 1613.
- **Compound Quantification and Reported Detection Limits:** Review is not applicable at a Level V validation. Quantitative interference, as denoted by a laboratory "Q" flag was present in several of the results in the samples of this SDG. Any result with a laboratory "Q," flag was qualified as estimated, "J," for detects and "UJ," for nondetects. Estimated Maximum Possible Concentrations (EMPCs) were identified in this SDG. Any EMPC was qualified as an estimated nondetect, "UJ." The result for OCDD in sample HZBS0091S001 exceeded the upper calibration limit; therefore, the OCDD detect was qualified as estimated, "J," in HZBS0091S001. The laboratory calculated and reported compound-specific detection limits. Any detect below the laboratory lower calibration level was qualified as estimated, "J." Nondetects are valid to the estimated detection limit (EDL).

B. EPA METHODS 6010B, 6020, 7470A/7471A—Metals and Mercury

Reviewed By: P. Meeks

Date Reviewed: May 18, 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:** Method blanks and CCBs had no detects.
- **Interference Check Samples:** Review is not applicable at a Level V validation.
- **Blank Spikes and Laboratory Control Samples:** Recoveries were within laboratory-established QC limits.
- **Laboratory Duplicates:** Laboratory duplicate analyses were performed on HZBS0081S001. The copper RPD exceeded the control limit; therefore, copper detected in both samples was qualified as estimated, "J." The lead RPD was within the laboratory-established control limit.

- Matrix Spike/Matrix Spike Duplicate: MS/MSD analyses were performed on HZBS0081S001. The copper recoveries were below the control limit; therefore, copper detected in both samples was qualified as estimated, "J." The lead recoveries were within the laboratory-established control limit.
- Serial Dilution: Serial dilution analyses were performed on HZBS0081S001. The copper %D exceeded the control limit; therefore, copper detected in both samples was qualified as estimated, "J." The lead %D was 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 samples in this SDG were analyzed at the laboratory's standard 2x dilution for soils. 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: FBQW2229 (225106) was the field blank and EBQW2205 (225170) was the equipment rinsate 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: 228818H

Analysis Method 1613B

Sample Name: HZBS0064S001 **Matrix Type:** Soil **Result Type:** Primary Result
Lab Sample Name: G341-579-1B **Sample Date:** 2/24/2009 10:28:00 AM **Validation Level:**
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	76.6	4.38	1.76	PG/G			
1,2,3,4,6,7,8-HpCDF	67562394	8.55	4.38	0.694	PG/G			
1,2,3,4,7,8,9-HpCDF	55673897	1.05	4.38	1.05	PG/G	QU	U	
1,2,3,4,7,8-HxCDD	39227286	0.866	4.38	0.67	PG/G	AQ	J	*III
1,2,3,4,7,8-HxCDF	70648269	0.703	4.38	0.435	PG/G	A	J	
1,2,3,6,7,8-HxCDD	57653857	2.07	4.38	0.647	PG/G	AQ	J	
1,2,3,6,7,8-HxCDF	57117449	0.481	4.38	0.481	PG/G	QU	UJ	*III
1,2,3,7,8,9-HxCDD	19408743	1.32	4.38	0.663	PG/G	AQ	J	*III
1,2,3,7,8,9-HxCDF	72918219	0.631	4.38	0.631	PG/G	QU	UJ	*III
1,2,3,7,8-PeCDD	40321764	0.389	4.38	0.389	PG/G	U	U	
1,2,3,7,8-PeCDF	57117416	0.261	4.38	0.261	PG/G	U	U	
2,3,4,6,7,8-HxCDF	60851345	0.577	4.38	0.496	PG/G	A	J	
2,3,4,7,8-PeCDF	57117314	0.673	4.38	0.278	PG/G	AQ	J	*III
2,3,7,8-TCDD	1746016	0.473	0.876	0.473	PG/G	U	U	
2,3,7,8-TCDF	51207319	0.832	0.876	0.383	PG/G	A	J	*III
OCDD	3268879	808	8.76	2.38	PG/G			
OCDF	39001020	19.6	8.76	1.96	PG/G			
Total HpCDDs	37871004	475	4.38	1.76	PG/G			
Total HpCDFs	38998753	30.5	4.38	0.852	PG/G			
Total HxCDDs	34465468	31.1	4.38	0.66	PG/G			
Total HxCDFs	55684941	15.8	4.38	0.502	PG/G			
Total PeCDDs	36088229	2.29	4.38	0.389	PG/G	AQ	J	*III
Total PeCDFs	30402154	6.66	4.38	0.269	PG/G			
Total TCDDs	41903575	2.14	0.876	2.14	PG/G	U	U	
Total TCDFs	30402143	4.34	0.876	0.383	PG/G			

Analysis Method 1613B

Sample Name HZBS0081S001 **Matrix Type:** Soil **Result Type:** Primary Result
Lab Sample Name: G341-579-3B **Sample Date:** 2/25/2009 9:42:00 AM **Validation Level:**
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	3.33	4.76	0.398	PG/G	A	J	
1,2,3,4,6,7,8-HpCDF	67562394	0.836	4.76	0.189	PG/G	A	J	
1,2,3,4,7,8,9-HpCDF	55673897	0.296	4.76	0.296	PG/G	U	U	
1,2,3,4,7,8-HxCDD	39227286	0.314	4.76	0.314	PG/G	U	U	
1,2,3,4,7,8-HxCDF	70648269	0.192	4.76	0.192	PG/G	U	U	
1,2,3,6,7,8-HxCDD	57653857	0.368	4.76	0.325	PG/G	A	J	
1,2,3,6,7,8-HxCDF	57117449	0.18	4.76	0.18	PG/G	U	U	
1,2,3,7,8,9-HxCDD	19408743	0.381	4.76	0.322	PG/G	A	J	
1,2,3,7,8,9-HxCDF	72918219	0.242	4.76	0.242	PG/G	U	U	
1,2,3,7,8-PeCDD	40321764	0.294	4.76	0.294	PG/G	U	U	
1,2,3,7,8-PeCDF	57117416	0.244	4.76	0.244	PG/G	U	U	
2,3,4,6,7,8-HxCDF	60851345	0.197	4.76	0.197	PG/G	U	U	
2,3,4,7,8-PeCDF	57117314	0.266	4.76	0.266	PG/G	U	U	
2,3,7,8-TCDD	1746016	0.37	0.952	0.37	PG/G	U	U	
2,3,7,8-TCDF	51207319	0.396	0.952	0.303	PG/G	A	J	*III
OCDD	3268879	25.1	9.52	0.552	PG/G			
OCDF	39001020	1.47	9.52	0.431	PG/G	A	J	
Total HpCDDs	37871004	11.3	4.76	0.398	PG/G			
Total HpCDFs	38998753	1.57	4.76	0.236	PG/G	A	J	
Total HxCDDs	34465468	2.15	4.76	0.321	PG/G	A	J	
Total HxCDFs	55684941	1.58	4.76	0.201	PG/G	A	J	
Total PeCDDs	36088229	0.294	4.76	0.294	PG/G	QU	UJ	*III
Total PeCDFs	30402154	1.36	4.76	0.255	PG/G	AQ	J	*III
Total TCDDs	41903575	1.58	0.952	1.58	PG/G	U	U	
Total TCDFs	30402143	0.709	0.952	0.303	PG/G	A	J	

Analysis Method 1613B

Sample Name HZBS0082S002 **Matrix Type:** Soil **Result Type:** Primary Result
Lab Sample Name: G341-579-4B **Sample Date:** 2/25/2009 9:08:00 AM **Validation Level:**
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	1.59	4.3	0.353	PG/G	A	J	
1,2,3,4,6,7,8-HpCDF	67562394	0.349	4.3	0.169	PG/G	A	J	
1,2,3,4,7,8,9-HpCDF	55673897	0.235	4.3	0.235	PG/G	U	U	
1,2,3,4,7,8-HxCDD	39227286	0.258	4.3	0.258	PG/G	U	U	
1,2,3,4,7,8-HxCDF	70648269	0.137	4.3	0.137	PG/G	U	U	
1,2,3,6,7,8-HxCDD	57653857	0.255	4.3	0.255	PG/G	U	U	
1,2,3,6,7,8-HxCDF	57117449	0.132	4.3	0.132	PG/G	U	U	
1,2,3,7,8,9-HxCDD	19408743	0.258	4.3	0.258	PG/G	U	U	
1,2,3,7,8,9-HxCDF	72918219	0.164	4.3	0.164	PG/G	U	U	
1,2,3,7,8-PeCDD	40321764	0.165	4.3	0.165	PG/G	U	U	
1,2,3,7,8-PeCDF	57117416	0.122	4.3	0.122	PG/G	U	U	
2,3,4,6,7,8-HxCDF	60851345	0.135	4.3	0.135	PG/G	U	U	
2,3,4,7,8-PeCDF	57117314	0.124	4.3	0.124	PG/G	U	U	
2,3,7,8-TCDD	1746016	0.204	0.861	0.204	PG/G	U	U	
2,3,7,8-TCDF	51207319	0.181	0.861	0.181	PG/G	U	U	
OCDD	3268879	14.7	8.61	0.431	PG/G			
OCDF	39001020	1.81	8.61	0.3	PG/G	A	J	
Total HpCDDs	37871004	5.2	4.3	0.353	PG/G			
Total HpCDFs	38998753	1.2	4.3	0.199	PG/G	A	J	
Total HxCDDs	34465468	0.257	4.3	0.257	PG/G	U	U	
Total HxCDFs	55684941	0.141	4.3	0.141	PG/G	U	U	
Total PeCDDs	36088229	0.165	4.3	0.165	PG/G	U	U	
Total PeCDFs	30402154	0.0778	4.3	0.0778	PG/G	U	U	
Total TCDDs	41903575	1.13	0.861	1.13	PG/G	U	U	
Total TCDFs	30402143	0.181	0.861	0.181	PG/G	U	U	

Analysis Method 1613B

Sample Name HZBS0091S001 **Matrix Type:** Soil **Result Type:** Primary Result
Lab Sample Name: G341-579-2B **Sample Date:** 2/24/2009 11:13:00 AM **Validation Level:**
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	291	4.29	0.583	PG/G			
1,2,3,4,6,7,8-HpCDF	67562394	19.4	4.29	0.251	PG/G			
1,2,3,4,7,8,9-HpCDF	55673897	0.792	4.29	0.792	PG/G	EMPC	UJ	*III
1,2,3,4,7,8-HxCDD	39227286	0.568	4.29	0.568	PG/G	EMPC	UJ	*III
1,2,3,4,7,8-HxCDF	70648269	2.17	4.29	0.254	PG/G	A	J	
1,2,3,6,7,8-HxCDD	57653857	7.32	4.29	0.363	PG/G			
1,2,3,6,7,8-HxCDF	57117449	0.77	4.29	0.244	PG/G	A	J	
1,2,3,7,8,9-HxCDD	19408743	1.49	4.29	0.369	PG/G	A	J	
1,2,3,7,8,9-HxCDF	72918219	1.25	4.29	0.315	PG/G	AQ	J	*III
1,2,3,7,8-PeCDD	40321764	0.289	4.29	0.289	PG/G	U	U	
1,2,3,7,8-PeCDF	57117416	1.52	4.29	0.171	PG/G	A	J	
2,3,4,6,7,8-HxCDF	60851345	1.19	4.29	0.248	PG/G	A	J	
2,3,4,7,8-PeCDF	57117314	2.21	4.29	0.182	PG/G	A	J	
2,3,7,8-TCDD	1746016	0.762	0.857	0.762	PG/G	U	U	
2,3,7,8-TCDF	51207319	0.604	0.857	0.336	PG/G	A	J	*III
OCDD	3268879	4620	8.57	0.632	PG/G	EQ	J	*III
OCDF	39001020	15.7	8.57	0.479	PG/G			
Total HpCDDs	37871004	1360	4.29	0.583	PG/G			
Total HpCDFs	38998753	63.8	4.29	0.301	PG/G			
Total HxCDDs	34465468	55.4	4.29	0.368	PG/G			
Total HxCDFs	55684941	72.4	4.29	0.263	PG/G			
Total PeCDDs	36088229	1.47	4.29	0.289	PG/G	AQ	J	*III
Total PeCDFs	30402154	23	4.29	0.177	PG/G			
Total TCDDs	41903575	0.762	0.857	0.762	PG/G	U	U	
Total TCDFs	30402143	0.974	0.857	0.336	PG/G			

Analysis Method 6020

Sample Name HZBS0081S001 **Matrix Type:** SOIL **Result Type:** Primary Result
Lab Sample Name: 228818003 **Sample Date:** 2/25/2009 9:42:00 AM **Validation Level:**
Matrix Type: SOIL

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Copper	7440508	14.6	0.23	0.046	mg/kg	*EN	J	Q, E, A
Lead	7439921	12.4	0.46	0.115	mg/kg			

Sample Name HZBS0082S002 **Matrix Type:** SOIL **Result Type:** Primary Result
Lab Sample Name: 228818004 **Sample Date:** 2/25/2009 9:08:00 AM **Validation Level:**
Matrix Type: SOIL

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Copper	7440508	7.34	0.206	0.0413	mg/kg	*EN	J	Q, E, A
Lead	7439921	6.53	0.413	0.103	mg/kg			

Chain of Custody and Supporting Documentation

2307617

CHAIN OF CUSTODY RECORD

COC #: MWHBM20090601_00
Page: 1 of 2

Customer Information		Project Information				Boeing PM:	
Site:	SSFL	Client Name:	Boeing	Collector:	B. Martasin		
Company:	MWH	Sampling Event:	ISRA Sampling, June 2009	Contact #:			
Report to:	Sarah Von Raesfeld	Project Number:	1891614.054521	Requested Analyses			
Address:	2121 N. California Blvd	Project Manager:	Alex Fischl	VOC by SW8260B - Water			
	Suite 600	PM Phone #:	(925) 627-4627	TPH by SW8015BM - Water			
	Walnut Creek	Field Contact:	Brian Martasin	SVOCs by SW8270C SIM - Water			
	CA	Field Contact #:	(323) 304-4969	PCB by SW8082 - Water			
	94596	Lab Name:	GEL Laboratories, LLC	Metals 7470A Water Mercury			
Email:	sarah.vonraesfeld@mwhglobal.c	Lab Contact:	Cheryl Jones	Metals 6020 Zn Water			
	sean.leffler@mwhglobal.com	Lab Address:	2040 Savage Road	Metals 6020 Water Lead			
		Lab Phone:	Charleston, SC 29407	Metals 6020 Water Arsenic			
			(843) 769-7388	Metals 6020 Soil Lead			
				Metals 6020 Soil Copper			
				Metals 6020 Se Water			
				Metals 6020 Cu Water			
				Metals 6020 Cd Water			
				Metals 6020 Be Water			
				Metals 6010B Water Aluminum			
				Dioxin by 1613B - Water			
				Dioxin by 1613B - Soil			
				D2216 Moisture Soil			
Sample Name	Matrix	Date	Time	No. of Containers	Comments		
HZBS0123D001	Soil	6/1/2009	0:00	1			
HZBS0110S001	Soil	6/1/2009	8:00	1			
HZBS0109S001	Soil	6/1/2009	8:09	1			
HZBS0114S001	Soil	6/1/2009	8:18	1			
HZBS0116S001	Soil	6/1/2009	8:25	1			
HZBS0111S001	Soil	6/1/2009	8:28	1			
HZBS0117S001	Soil	6/1/2009	8:41	1			
HZBS0119S001	Soil	6/1/2009	8:55	1			
HZBS0120S001	Soil	6/1/2009	9:03	1			
HZBS0121S001	Soil	6/1/2009	9:15	1			

1. Relinquished by:	Date: 6-1-09	2. Received by:	Date: 6/2/09	3. Relinquished by:	Date:	4. Received by:	Date:
	Time: 1615		Time: 915				
Company: MWH		Company: GEL					

Comments: Geotracker EDF Data Validation Package Level IV

2307617

CHAIN OF CUSTODY RECORD

MWHBM20090601_00
Page: 2 of 2

COC #:

Customer Information		Project Information		Boeing PM:	
Site:	SSFL	Client Name:	Boeing	Collector:	B. Martasin
Company:	MWH	Sampling Event:	ISRA Sampling, June 2009	Contact #:	
Report to:	Sarah Von Reesfeld	Project Number:	1891614.054521	Requested Analyses	
Address:	2121 N. California Blvd Suite 600 Walnut Creek CA 94596	Project Manager:	Alex Fischl (925) 627-4627 Brian Martasin (323) 304-4989 GEL Laboratories, LLC Cheryl Jones 2040 Savage Road Charleston, SC 29407 (843) 769-7388	VOC by SW8260B - Water TPH by SW8015BM - Water SVOCs by SW8270C SIM - Water PCB by SW8082 - Water Metals 7470A Water Mercury Metals 6020 Zn Water Metals 6020 Water Lead Metals 6020 Water Arsenic Metals 6020 Soil Lead Metals 6020 Soil Copper Metals 6020 Se Water Metals 6020 Cu Water Metals 6020 Cd Water Metals 6020 Be Water Metals 6010B Water Aluminum Dioxin by 1613B - Water Dioxin by 1613B - Soil D2216 Moisture Soil	
Email:	sarah.vonreesfeld@mwhglobal.com sean.leffler@mwhglobal.com	Lab Name:	GEL Laboratories, LLC	Instructions/TAT Legend: Numerical values for analyses equale to turn around time in days H - Hold EH - Extract & Hold	
Matrix	Date	Time	No. of Containers	Comments	
HZBS0118S001	6/1/2009	9:26	1	MS/MSD	
HZBS0112S001	6/1/2009	9:44	1		
HZBS0113S001	6/1/2009	9:57	1		
HZBS0124S001	6/1/2009	10:58	1		
HZBS0123S001	6/1/2009	11:17	1		
FBQW2231	6/1/2009	14:05	10		
EBQW2215	6/1/2009	14:25	3		
HZBS0115S001	6/1/2009	15:15	1		

1. Relinquished by:	2. Received by:	3. Relinquished by:	4. Received by:
Date: 6-1-09 Time: 1:15 Company: MWH Comments: Dr R	Date: 6-1-09 Time: 9:15 Company: GEL	Date: 6/2/09 Time: 9:15 Company:	Date: Time: Company:

Geotracker EDF
Data Validation Package Level IV



SAMPLE RECEIPT & REVIEW FORM

Client: <u>SSFI</u>		SDG/ARCOC/Work Order: <u>230761</u>	
Received By: <u>RMS</u>		Date Received: <u>6/2/09</u>	
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?		<input checked="" type="checkbox"/>	Maximum Counts Observed*:
Classified Radioactive II or III by RSO?		<input checked="" type="checkbox"/>	<u>2000m</u>
COC/Samples marked containing PCBs?		<input checked="" type="checkbox"/>	
Shipped as a DOT Hazardous?		<input checked="" type="checkbox"/>	Hazard Class Shipped: UN#:
Samples identified as Foreign Soil?		<input checked="" type="checkbox"/>	

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

Comments:

Ex: 9457 3161 5372
" 5383

PM (or PMA) review: Initials JT Date 6/2/09

Subject: FW: ISRA COC 6/1/09
From: Sarah Von Raesfeld <Sarah.E.VonRaesfeld@us.mwhglobal.com>
Date: Mon, 1 Jun 2009 18:04:45 -0600
To: Jackie Trudell <jacqueline.trudell@gel.com>
CC: Sean Leffler <Sean.S.Leffler@us.mwhglobal.com>

Hi Jackie,

Please include the following hold samples in the same SDG as the sampling from this COC:

- HZBS0065 – dioxins
- HZBS0085 – dioxins
- HZBS0083 – copper, lead

From: Sean Leffler
Sent: Monday, June 01, 2009 4:11 PM
To: Jackie Trudell
Cc: Sarah Von Raesfeld
Subject: ISRA COC 6/1/09



MWH

BUILDING A BETTER WORLD

Sean Leffler

Environmental Scientist

MWH Americas, Inc.
9444 Farnham Street
Suite 300
San Diego, CA 92123
www.mwhglobal.com

Direct Line: 858 751 1217
Telephone: 858 751 1200
Facsimile: 858 751 1201
sean.s.leffler@us.mwhglobal.com

COC GEL ISRA 6-1-09.pdf	Content-Description: COC GEL ISRA 6-1-09.pdf
	Content-Type: application/pdf
	Content-Encoding: base64

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: 06/04/09

To: Jackie Trudell

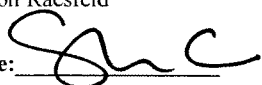
Phone: 843-769-7388

Laboratory GEL Laboratories, LLC

E-mail:
jacqueline.trudell@gel.com

From: Sarah Von Raesfeld

Requestor

signature: 

Subject: Chain-of-Custody Form Analytical Request Change

No. of Pages: 9

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	HZBS0065S001	02/24/09		Run dioxins
MWHAL20090225_00	HZBS0083S001	02/25/09		Run copper and lead
MWHAL20090225_00	HZBS0085S001	02/25/09		Run dioxins

The reason for these changes:

Incorrectly marked on COC form

Lack of sample volume

Change in analytical request

Other:

X

Thank you

225106

MMHAL20080224_00

Page: 1 of 3

CHAIN OF CUSTODY RECORD

COC #:

Customer Information			Project Information			Project Information													
Site:	Client Name:	Boeing	Collector:	A. Leavitt	Boeing PM:	Requested Analyses													
Company:	Sampling Event:	ISRA Sampling, Feb 2009	Contact #:				Instructions/TAT												
Report to:	Project Number:	1991614.050104				Legend:													
Address:	Project Manager:	Alex Fischl				Numerical values for analyses equate to turn around time in days													
	PM Phone #:	(925) 827-4627				H - Hold													
	Field Contact:	Brian Martasin				EH - Extract/Extract & Hold													
	Field Contact #:	(323) 304-4989				Note: Values in the cells below are Turn Around Times.													
	Lab Name:	GEL Laboratories, LLC																	
	Lab Contact:	Cheryl Jones																	
	Lab Address:	2040 Savage Road																	
	Lab Phone:	Charleston, SC 29407																	
		(843) 769-7388																	
Sample Name	Matrix	Date	Time	No. of Containers															
EBQW2204	Water	2/24/2009	15:15	3															
FBQW2229	Water	2/24/2009	15:00	3															
HBZS0062S001	Soil	2/24/2009	11:01	1	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
HBZS0063S001	Soil	2/24/2009	11:48	1	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
HBZS0064S001	Soil	2/24/2009	10:28	2	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
HBZS0065S001	Soil	2/24/2009	11:39	1	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
HBZS0067D001	Soil	2/24/2009	0:00	1	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
HBZS0067S001	Soil	2/24/2009	8:20	1	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
HBZS0070S001	Soil	2/24/2009	14:45	2	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
HBZS0073S001	Soil	2/24/2009	8:47	2	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
1. Relinquished by:		Date:	2. Received by:		Date:	3. Relinquished by:		Date:	4. Received by:		Date:								
B. A. O.		2/24/09	L. L. Fisher		2/29/09														
Company: MWH		Time: 16:15	Company: GEL		Time: 08:40														

Geotracker EDF Data Validation Package Level IV

③ SWR 04/14/09
 ④ SWR 06/04/09

225106

MWHAL20080224_00

Page: 2 of 3

COC #:

CHAIN OF CUSTODY RECORD

Customer Information		Project Information				Requested Analyses		Instructions/TAT	
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 Fisch								
Suite 800	PM Phone #: (925) 827-4827								
Walnut Creek	Field Contact: Brian Mantas								
CA	Field Contact #: (323) 304-4989								
94598	Lab Name: GEL Laboratories, LLC								
Email: sarah.vonraesfeld@mwhglobal.com	Lab Contact: Cheryl Jones								
sean.keller@mwhglobal.com	Lab Address: 2040 Savage Road								
	Lab Phone: Charleston, SC 29407								
	(843) 769-7388								
Sample Name	Matrix	Date	Time	No. of Containers	Requested Analyses		Instructions/TAT		
HZBS0079S001	Soil	2/24/2009	9:21	2	Dioxin by 1613B - Soil	10	D2216 Moisture Soil		
HZBS0086S001	Soil	2/24/2009	13:50	1	Dioxin by 1613B - Water				
HZBS0087S001	Soil	2/24/2009	13:10	1	Metals 6020 Cu Water	10	Metals 6020 Zn Water		
HZBS0088D001	Soil	2/24/2009	0:00	1	Metals 6020 Cd Water	10	Metals 6020 Water Lead		
HZBS0089S001	Soil	2/24/2009	13:59	1	Metals 6020 Soil Arsenic	10	Metals 6020 Water Arsenic		
HZBS0090S001	Soil	2/24/2009	10:51	2	Metals 6020 Soil Cadmium	10	Metals 6020 Soil Zinc		
HZBS0091S001	Soil	2/24/2009	10:08	2	Metals 6020 Soil Copper	10	Metals 6020 Soil Lead		
HZBS0093S001	Soil	2/24/2009	11:13	1	Metals 6020 Soil Arsenic	10	Metals 6020 Soil Lead		
HZBS0094S001	Soil	2/24/2009	13:33	1	Metals 6020 Cu Water	10	Metals 6020 Soil Cadmium		
				2	Metals 6020 Soil Arsenic	10	Metals 6020 Soil Copper		
				2	Metals 6020 Soil Cadmium	10	Metals 6020 Soil Lead		
				2	Metals 6020 Cu Water	10	Metals 6020 Soil Zinc		
				2	Metals 6020 Cd Water	10	Metals 6020 Water Lead		
				2	Metals 6020 Zn Water	10	Metals 6020 Water Arsenic		
				2	Dioxin by 1613B - Soil	10	Dioxin by 1613B - Water		
				2	D2216 Moisture Soil	10	D2216 Moisture Soil		

1. Relinquished by: <i>SR</i>		Date: 2/24/09	2. Received by: <i>Allyl Arden</i>		Date: 2/25/09
Company: MWH		Time: 16:15	Company: GEL		Time: 08:40
3. Relinquished by:		Date:	4. Received by:		Date:

Geotracker EDF

Date Validation Package Level IV

① SVR 02/26/09
 ② SVR 03/23/09

2251707

COC #:

CHAIN OF CUSTODY RECORD

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 Reasfeld	Project Number: 1891614.050104	Requested Analytes			
Address: 2121 N. California Blvd	Project Manager: Alex Fischl	Dioxin by 1613B - Water			
Suite 800	PM Phone #: (925) 627-4627	Dioxin by 1613B - Soil			
Walnut Creek	Field Contact: Brian Martinis	D2216 Moisture Soil	H	10	
CA	Field Contact #: (323) 304-4969	Metals 6020 Cu Water			
94596	Lab Name: GEL Laboratories, LLC	Metals 6020 Cd Water			
Email: sarah.vonreasfeld@mwhglobal.com	Lab Contact: Cheryl Jones	Metals 6020 Soil Arsenic			
sean.leffler@mwhglobal.com	Lab Address: 2040 Savage Road	Metals 6020 Soil Arsenic			
	Lab Phone: (843) 769-7388	Metals 6020 Soil Cadmium			
		Metals 6020 Soil Copper			
		Metals 6020 Soil Lead	H	10	
		Metals 6020 Soil Zinc			
		Metals 6020 Water Arsenic			
		Metals 6020 Water Lead			
		Metals 6020 Zn Water			

Instructions/TAT

Legend:
 Numerical values for analyses equate to turn around time in days
 H - Hold
 EH - Extract/Extract & Hold
 Note: Values in the cells below are Turn Around Times.

Comments

1. Relinquished by:	Date:	2. Received by:	Date:	3. Relinquished by:	Date:	4. Received by:	Date:
<i>B. O.</i>	2/25/09	<i>Rick Adams</i>	2/26/09				
Company: MWH	Time: 1:30	Company: GEL	Time: 08:45				
Comments:							

Geotracker EDF
 Data Validation Package Level IV

① SNE 02/26/09

2251707



CHAIN OF CUSTODY RECORD

COC #:

MWHAL20090225_00

Page: 1 of 3

Customer Information			Project Information		
Site:	SSFL	Client Name:	Boeing	Collector:	A. Leavitt
Company:	MWH	Sampling Event:	ISRA Sampling, Feb 2009	Contact #:	
Report to:	Sarah Von Raesfeld	Project Number:	1891614.050104	Boeing PM:	
Address:	2121 N. California Blvd	Project Manager:	Alex Fischl	Requested Analyses	
	Suite 600	PM Phone #:	(925) 627-4627	Metals 6020 Zn Water	
	Walnut Creek	Field Contact:	Brian Martasin	Metals 6020 Water Lead	
	CA	Field Contact #:	(323) 304-4969	Metals 6020 Water Arsenic	
	94596	Lab Name:	GEL Laboratories, LLC	Metals 6020 Soil Zinc	
Email:	sarah.vonraesfeld@mwhglobal.c	Lab Contact:	Cheryl Jones	Metals 6020 Soil Lead	10
	sean.leffler@mwhglobal.com	Lab Address:	2040 Savage Road	Metals 6020 Soil Copper	10
		Lab Phone:	Charleston, SC 29407	Metals 6020 Soil Cadmium	10
			(843) 769-7388	Metals 6020 Soil Arsenic	10
				Metals 6020 Cu Water	
				Metals 6020 Cd Water	
				Dioxin by 1613B - Water	
				Dioxin by 1613B - Soil	
				D2216 Moisture Soil	10
Sample Name	Matrix	Date	Time	No. of Containers	Comments
CNBS0089S001	Soil	2/25/2009	14:35	1	
CNBS0090S001	Soil	2/25/2009	14:38	1	
CNBS0091S001	Soil	2/25/2009	14:44	1	
CNBS0128S001	Soil	2/25/2009	14:00	2	
CNBS0129S001	Soil	2/25/2009	14:10	2	
CNBS0130S001	Soil	2/25/2009	14:17	2	
EBOW2205	Water	2/25/2009	15:00	3	
HZBS0068S001	Soil	2/25/2009	12:58	2	
HZBS0069S001	Soil	2/25/2009	12:51	1	
HZBS0071S001	Soil	2/25/2009	13:06	1	MS/MSD

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

Comments:

② SWR 03/23/09
 ③ SWR 04/14/09



CHAIN OF CUSTODY RECORD

2251701

COC #:

MWHA20090225_00

Page: 2 of 3

Customer Information		Project Information		Project Information	
Site:	SSFL	Client Name:	Boeing	Collector:	A. Leavitt
Company:	MWH	Sampling Event:	ISRA Sampling, Feb 2009	Contact #:	
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) 768-7388		

Sample Name	Matrix	Date	Time	No. of Containers	Requested Analyzes	Instructions/TAT	Comments
HZBS0072S001	Soil	2/25/2009	12:42	1	D2216 Moisture Soil		
HZBS0074S001	Soil	2/25/2009	11:52	1	Metals 6020 Zn Water		
HZBS0075S001	Soil	2/25/2009	13:40	1	Metals 6020 Water Lead		
HZBS0076S001	Soil	2/25/2009	10:39	1	Metals 6020 Water Arsenic		
HZBS0077S001	Soil	2/25/2009	10:16	2	Metals 6020 Soil Zinc		
HZBS0078S001	Soil	2/25/2009	10:28	1	Metals 6020 Soil Lead		
HZBS0080S001	Soil	2/25/2009	10:02	1	Metals 6020 Soil Copper		
HZBS0081S001	Soil	2/25/2009	8:42	2	Metals 6020 Soil Cadmium		
HZBS0082S001	Soil	2/25/2009	9:00	1	Metals 6020 Soil Arsenic		
HZBS0082S002	Soil	2/25/2009	9:08	1	Metals 6020 Cu Water		
					Metals 6020 Cd Water		
					Dioxin by 1613B - Water		
					Dioxin by 1613B - Soil		

1. Relinquished by:	Date:	2. Received by:	Date:	3. Relinquished by:	Date:	4. Received by:	Date:
<i>Br D</i>	2/25/09	<i>Kel Allen</i>	2/26/09				
Company: MWH	Time: 16:20	Company: GEL	Time: 08:45				

Comments:

② SWR 03/23/09
 ③ SWR 04/14/09

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 Data Validation Package ✓ Level IV



CHAIN OF CUSTODY RECORD

2251707

COC #:

MWHAL20090225_00

Page: 3 of 3

Customer Information		Project Information		Project Information	
Site:	SSFL	Client Name:	Boeing	Collector:	A. Leavitt
Company:	MWH	Sampling Event:	ISRA Sampling, Feb 2009	Contact #:	
Report to:	Sarah Von Raasfeld	Project Number:	1891614.050104	Boeing PM:	
Address:	2121 N. California Blvd	Project Manager:	Alex Fischl	Requested Analyses	
	Suite 800	PM Phone #:	(925) 927-4927	Metals 6020 Zn Water	
	Walnut Creek	Field Contact:	Brian Martasin	Metals 6020 Water Lead	
	CA	Field Contact #:	(323) 304-4969	Metals 5020 Water Arsenic	
	94596	Lab Name:	GEL Laboratories, LLC	Metals 6020 Soil Zinc	
Email:	sarah.vonraasfeld@mwhglobal.com	Lab Contact:	Cheryl Jones	Metals 6020 Soil Lead	
	sean.leffer@mwhglobal.com	Lab Address:	2040 Savage Road	Metals 6020 Soil Copper	
		Lab Phone:	Charleston, SC 29407	Metals 6020 Soil Cadmium	
			(843) 769-7388	Metals 6020 Soil Arsenic	
				Metals 6020 Cu Water	
				Metals 6020 Cd Water	
				Dioxin by 16138 - Water	
				Dioxin by 16138 - Soil	
				D2216 Moisture Soil	
Sample Name	Matrix	Date	Time	No. of Containers	
HZBS00835001	Soil	2/25/2009	8:51	1	10
HZBS00845001	Soil	2/25/2009	8:40	1	10
HZBS00869001	Soil	2/25/2009	12:00	1	10
HZBS00925001	Soil	2/25/2009	8:13	1	10
HZBS00945001	Soil	2/25/2009	11:45	1	10
HZBS00979001	Soil	2/25/2009	12:11	1	10

Instructions/TAT

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

H - Hold
EH - Extract/Extend & Hold

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

1. Relinquished by:	Date:	2. Received by:	Date:	3. Relinquished by:	Date:	4. Received by:	Date:
B-D	2/25/09	Richard Adair	2/26/09				
Company: MWH	Time: 1630	Company: GEL	Time: 0845				
Comments:							

Geotracker EDF
Data Validation Package ✓ Level IV

① SWL 02/26/09
② SWL 03/23/09
③ SWL 07/14/09

⊕ 06/04/09 SWL

2307617

CHAIN OF CUSTODY RECORD

COC #: MWH-IBM20090601_00
 Page: 1 of 2

Customer Information				Project Information			
Site:	SSFL	Client Name:	Boeing	Collector:	B. Mantas	Boeing PM:	
Company:	MWH	Sampling Event:	ISRA Sampling, June 2009	Contact #:			
Report to:	Sarah Von Raesfeld	Project Number:	1891614.054521				
Address:	2121 N. California Blvd	Project Manager:	Alex Fischl				
	Suite 600	PM Phone #:	(925) 627-4627				
	Walnut Creek	Field Contact:	Brian Mantas				
	CA	Field Contact #:	(323) 304-4969				
	94596	Lab Name:	GEL Laboratories, LLC				
Email:	sarah.vonraesfeld@mwhglobal.com	Lab Contact:	Cheryl Jones				
	sean.levitt@mwhglobal.com	Lab Address:	2040 Savage Road				
		Lab Phone:	Charleston, SC 29407				
			(843) 768-7388				

Sample Name	Matrix	Date	Time	No. of Containers	Requested Analyses	Instructions/TAT	Comments
HZBS0123D001	Soil	6/1/2009	0:00	1	Dioxin by 1613B - Soil		
HZBS01106001	Soil	6/1/2009	8:00	1	D2216 Moisture Soil		
HZBS0109S001	Soil	6/1/2009	8:09	1	Metals 6010B Water Aluminum		
HZBS0114S001	Soil	6/1/2009	8:18	1	Metals 6020 Be Water		
HZBS0116S001	Soil	6/1/2009	8:25	1	Metals 6020 Cd Water		
HZBS0117S001	Soil	6/1/2009	8:28	1	Metals 6020 Cu Water		
HZBS0117S001	Soil	6/1/2009	8:41	1	Metals 6020 Se Water		
HZBS0119S001	Soil	6/1/2009	8:55	1	Metals 6020 Soil Lead		
HZBS0120S001	Soil	6/1/2009	9:03	1	Metals 6020 Soil Copper		
HZBS0121S001	Soil	6/1/2009	9:15	1	Metals 6020 Water Arsenic		
					Metals 6020 Water Lead		
					Metals 6020 Zn Water		
					Metals 7470A Water Mercury		
					PCB by SW8082 - Water		
					SVOCs by SW8270C SIM - Water		
					TPH by SW8015BM - Water		
					VOC by SW8260B - Water		

1. Relinquished by:		2. Received by:		3. Relinquished by:		4. Received by:	
Date:	Time:	Date:	Time:	Date:	Time:	Date:	Time:
<i>[Signature]</i>	6-1-09	<i>[Signature]</i>	6/2/09				
Company: MWH	1615	Company: GEL	915	Company:		Company:	

Geotracker EDF Data Validation Package Level IV

2307617



CHAIN OF CUSTODY RECORD

COC #: MWFBM20090601_00 Page: 2 of 2

Customer Information				Project Information			
Site:	SSFL	Client Name:	Boeing	Collector:	B. Martasin	Boeing PM:	
Company:	MWH	Sampling Event:	ISRA Sampling, June 2009	Contact #:			
Report to:	Sarah Von Raesfeld	Project Number:	1891614.054521				
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) 304-4989				
	94596	Lab Name:	GEL Laboratories, LLC				
Email:	sarah.vonraesfeld@mwhglobal.com	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	Instructions/TAT	Comments
HZBS0118S001	Soil	6/1/2009	9:29	1	Dioxin by 1613B - Soil		
HZBS0112S001	Soil	6/1/2009	9:44	1	Dioxin by 1613B - Soil		
HZBS0113S001	Soil	6/1/2009	9:57	1	Dioxin by 1613B - Soil		
HZBS0124S001	Soil	6/1/2009	10:56	1	Dioxin by 1613B - Soil		
HZBS0123S001	Soil	6/1/2009	11:17	1	Dioxin by 1613B - Soil		
FBQW2231	Water	6/1/2009	14:05	10	Dioxin by 1613B - Soil		
EBQW2215	Water	6/1/2009	14:25	3	Dioxin by 1613B - Soil		
HZBS0115S001	Soil	6/1/2009	15:15	1	Dioxin by 1613B - Soil		
					D2216 Moisture Soil		
					Metals 6010B Water Aluminum		
					Metals 6020 Be Water		
					Metals 6020 Cd Water		
					Metals 6020 Cu Water		
					Metals 6020 Se Water		
					Metals 6020 Soil Copper		
					Metals 6020 Soil Lead		
					Metals 6020 Water Arsenic		
					Metals 6020 Water Lead		
					Metals 6020 Zn Water		
					Metals 7470A Water Mercury		
					PCB by SW8082 - Water		
					SVOCs by SW8270C SIM - Water		
					TPH by SW8015BM - Water		
					VOC by SW8260B - Water		

1. Relinquished by:	Date:	2. Received by:	Date:	3. Relinquished by:	Date:	4. Received by:	Date:
<i>[Signature]</i>	6-1-09	<i>R.M. Stelling</i>	6/2/09				
Company: MWH	Time: 16:15	Company: GEL	Time: 9:15	Company:	Time:	Company:	Time:
Comments:							

Geotracker EDF Data Validation Package Level IV

LABORATORY TASK ORDER (LTO) FORM

INSTRUCTIONS: To be completed by Environmental Contractor & Emailed to Laboratory Project Manager, CH2M HILL (boeingdms@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:

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

Date Required: 02/19/09

Requested Analyses: (Specify # of Samples)

Date Sample Pickup: NA

Ship Containers To:
 Project Site (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 (select all applicable)
 Water (select all applicable)
 Vapor (select all applicable)

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

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

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) (enter "X")
 # of Copies Reports Req.: 1

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)

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
Address: 2121 N. California Blvd. Ste. 600
Walnut Creek, CA 94596

Contract Laboratory: GEL
Address: 2040 Savage Rd.
Charleston, SC 29407

Contact Name: Sarah Von Raesfeld
Phone Number: 925-627-4654
Fax Number: 925-627-4501
E-mail Address: Sarah.VonRaesfeld@mwhglobal.com

Lab Contact Name: Cheryl Jones
Phone Number: 843-769-7388
Fax Number: 843-766-1178
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)	--	--	--

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Case Narrative

**Case Narrative
for
Boeing - SSFL (MWH)
Work Order: 230761
SDG: 230761**

June 10, 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 February 25, 2009, February 26, 2009 and June 02, 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:

<u>Laboratory Identification</u>	<u>Sample Description</u>
230761001	HZBS0123D001
230761002	HZBS0110S001
230761003	HZBS0109S001
230761004	HZBS0114S001
230761005	HZBS0116S001
230761006	HZBS0111S001
230761007	HZBS0117S001
230761008	HZBS0119S001
230761009	HZBS0120S001
230761010	HZBS0121S001
230761011	HZBS0118S001
230761012	HZBS0112S001
230761013	HZBS0113S001
230761014	HZBS0124S001
230761015	HZBS0123S001
230761016	FBQW2231
230761017	EBQW2215
230761018	HZBS0115S001
230761019	HZBS0065S001
230761020	HZBS0083S001
230761021	HZBS0085S001

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.

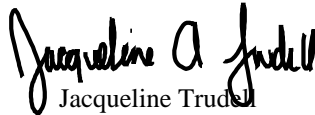
Case Narrative

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: FID Flame Ionization Detector, GC Semivolatile PCB, GC/MS Semivolatile, GC/MS Volatile, 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.



Handwritten signature of Jacqueline A. Trudel in black ink.

Jacqueline Trudel

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 04 June 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: 230761

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: 230761
 Project Manager: Dixie Hambrick
 Matrix: soil
 QC Level: V
 No. of Samples: 14
 No. of Reanalyses/Dilutions: 0
 Laboratory: GEL

Table 1. Sample Identification

<i>Sample Name</i>	<i>Lab Name</i>	<i>Sample Sub Sample Name</i>	<i>lab Matrix</i>	<i>Collection</i>	<i>Method</i>
EBQW2215	230761017	G341-583-17B	Water	01-Jun-09	6020, 1613B
FBQW2231	230761016	G341-583-16B	Water	01-Jun-09	6010B, 6020, 1613B, 7470A, 8015B, 8082, 8260B, 8270C
HZBS0065S001	230761019	G341-583-20B	Soil	24-Feb-09	1613B
HZBS0083S001	230761020	N/A	Soil	25-Feb-09	6020
HZBS0085S001	230761021	G341-583-19B	Soil	25-Feb-09	1613B
HZBS0110S001	230761002	G341-583-2B	Soil	01-Jun-09	1613B
HZBS0111S001	230761006	G341-583-6B	Soil	01-Jun-09	1613B
HZBS0112S001	230761012	G341-583-12B	Soil	01-Jun-09	1613B
HZBS0115S001	230761018	G341-583-18B	Soil	01-Jun-09	1613B
HZBS0118S001	230761011	G341-583-11B	Soil	01-Jun-09	1613B
HZBS0120S001	230761009	G341-583-9B	Soil	01-Jun-09	1613B
HZBS0123D001	230761001	G341-583-1B	Soil	01-Jun-09	1613B
HZBS0123S001	230761015	G341-583-15B	Soil	01-Jun-09	1613B
HZBS0124S001	230761014	G341-583-14B	Soil	01-Jun-09	6020, 1613B

II. Sample Management

No anomalies were observed regarding sample management. The samples 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.
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.
DNQ	The reported result is above the method detection limit but is less than the reporting limit.	The reported result is above the method detection limit but is less than the reporting limit.
*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: June 20, 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 (8/02)*.

- Holding Times: Extraction and analytical holding times were met. The water samples were extracted and analyzed within one year of collection.
- Instrument Performance: Not applicable at a Level V validation.
- Calibration: Not applicable at a Level V validation.
- Blanks: 2,3,7,8-TCDF was reported below the CRQL in both soil method blanks; therefore, soil sample results for 2,3,7,8-TCDF below the CRQL were qualified as nondetected, "U." As a portion of total TCDF included target compound 2,3,7,8-TCDF, the total result was qualified as "J," in several of the soil samples of this SDG. 1,2,3,4,6,7,8-HpCDD and OCDD were reported above the EDL in LMB17142; however, the detects in the associated samples were above the CRQL and exceeded five times the concentrations reported in the method blank. The method blanks had no other applicable 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 and RPDs were within the laboratory established QC limits for the OPR/OPRD pairs.
- Matrix Spike and Matrix Spike Duplicate Samples: MS/MSD analyses were performed for samples HZBS0065S001 and HZBS0118S001. OCDD exceeded QC limits in the MS of HZBS0118S001 and the MSD analysis of HZBS0065S001. The RPD for OCDD exceeded QC limits in the MS/MSD analyses of HZBS0118S001. The remaining recoveries and RPDs for the MS/MSD pairs 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: There was no equipment rinsate identified for sample HZBS0065S001. FBQW2231 was the field blank for all samples and EBQW2215 was the equipment rinsate associated with all soil samples except HZBS0065S001 and HZBS0085S001. EBQW2205 (SDG 225170) was the

equipment rinsate identified for sample HZBS0085S001. There were no detects above the EDL in EBQW2205. 1,2,3,7,8-PeCDF, 2,3,4,7,8-PeCDF, 2,3,7,8-TCDD, and 1,2,3,6,7,8-HxCDF were reported as EMPCs in FBQW2231. 2,3,4,7,8-PeCDF, total PeCDF, total HxCDF, and total HpCDF were reported at 0.000436, 0.000436, 0.000569, and 0.000639 ng/L, respectively in EBQW2215. The results reported in the associated soil samples exceeded five times the concentrations reported in the equipment rinsate and were not qualified.

- Field Duplicates: Samples HZBS0123S001 and HZBS0123D001 were the field duplicate samples identified for this SDG. There were 16 detects common detects above the EDL with RPDs \leq 100%.
- 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.
- Compound Quantification and Reported Detection Limits: Review is not applicable at a Level V validation. The laboratory calculated and reported compound-specific detection limits. Any detect between the EDL and the reporting limit was qualified as estimated, "J." Estimated maximum possible concentrations (EMPCs) were identified in some of the samples of this SDG and were qualified as estimated and nondetected, "UJ." Polychlorinated diphenyl ether interference was present in some of the samples of this SDG, as denoted by a laboratory "DPE" flag. Any results with a laboratory "DPE" flag were qualified as estimated, "J," for detects and "UJ," for nondetects in the samples of this SDG. Nondetects are valid to the estimated detection limit (EDL).

B. EPA METHODS 6010B, 6020, 7470A/7471A—Metals and Mercury

Reviewed By: P. Meeks

Date Reviewed: June 19, 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 Methods 6010B, 6020, 7470A/7471A*, and the *National Functional Guidelines for Inorganic Data Review (10/04)*.

- Holding Times: Analytical holding times, six months for ICP and ICP-MS metals and 28 days for mercury, were met.
- Tuning: Not applicable at a Level V validation.

- Calibration: Not applicable at a Level V validation.
- Blanks: Method blanks and CCBs had no detects.
- Interference Check Samples: 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: Laboratory duplicate analyses were performed on HZBS0124S001. Both RPDs were within the laboratory-established control limit.
- Matrix Spike/Matrix Spike Duplicate: MS/MSD analyses were performed on HZBS0124S001. Recoveries and RPDs were within laboratory-established QC limits.
- Serial Dilution: Serial dilution analyses were performed on HZBS0124S001 and FBQW2231. For HZBS0124S001, the copper %D exceeded the control limit; therefore, copper detected in both soil samples was qualified as estimated, "J." All remaining %Ds were within the method-established control limit.
- Internal Standards Performance: Not applicable at a Level V validation.
- Sample Result Verification: Not applicable at a Level V validation. Lead in HZBS0083S001 was reported from a 10× dilution in order to report the analytes within the linear range of the instrument. All remaining soil analytes were reported from the laboratory's standard 2× dilution for soils. Any detect below the reporting limit were 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: FBQW2231 was the field blank and EBQW2215 was the equipment rinsate associated with the soil samples in this SDG. There were no applicable detects in either field QC sample.
 - Field Duplicates: There were no field duplicate samples identified for this SDG.

C. EPA METHOD 8270C—Polynuclear Aromatic Hydrocarbons (PAHs)

Reviewed By: P. Meeks

Date Reviewed: June 19, 2006

The sample listed in Table 1 for this analysis was validated based on the guidelines outlined in the *MEC^X Data Validation Procedure for Semivolatile Organics (DVP-3, Rev. 0)*, *EPA Method 8270C*, and the *National Functional Guidelines for Organic Data Review (10/99)*.

- Holding Times: Extraction and analytical holding times were met. The water sample was extracted within seven days of collection and analyzed within 40 days of extraction.
- GC/MS Tuning: Not applicable at a Level V validation.
- Calibration: Not applicable at a Level V validation.
- Blanks: Bis(2-ethylhexyl)phthalate was detected in the method blank at 0.442 µg/L; therefore, bis(2-ethylhexyl)phthalate detected in the sample was qualified as nondetected, "U," at the reporting limit. The method blank had no other target compound detects above the MDL.
- Blank Spikes and Laboratory Control Samples: Recoveries and RPDs were within laboratory-established QC limits.
- Surrogate Recovery: Recoveries were within laboratory-established QC limits.
- Matrix Spike/Matrix Spike Duplicate: No MS/MSD analyses were performed on the sample in this SDG. Method accuracy and precision was evaluated based on LCS/LCSD results.
- 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: The sample in this SDG was identified as a field blank. There were no reportable detects in this sample.
 - Field Duplicates: There were no field duplicate samples identified for this SDG.
- Internal Standards Performance: Not applicable at a Level V validation.
- Compound Identification: Not applicable at a Level V validation.
- Compound Quantification and Reported Detection Limits: Not applicable at a Level V validation. Any result reported between the MDL and the reporting limit was qualified as estimated, "J." Reported nondetects are valid to the reporting limit.

- Tentatively Identified Compounds: TICs were not reported by the laboratory for this SDG.
- System Performance: Not applicable at a Level V validation.

D. EPA METHOD 8082—PCBs

Reviewed By: P. Meeks

Date Reviewed: June 19, 2009

The sample listed in Table 1 for this analysis was validated based on the guidelines outlined in the *MEC^x Data Validation Procedure for Organochlorine Pesticides/PCBs by GC (DVP-4, Rev. 0)*, *EPA Method 8082*, and the *National Functional Guidelines for Organic Data Review (10/99)*.

- Holding Times: Extraction and analytical holding times were met. The water sample was extracted within seven days of collection and analyzed within 40 days of extraction.
- Calibration: Not applicable at a Level V validation.
- Blanks: The method blank had no target compound detects above the MDL.
- Blank Spikes and Laboratory Control Samples: Recoveries and RPDs were within laboratory-established QC limits.
- Surrogate Recovery: Recoveries were within laboratory-established QC limits.
- Matrix Spike/Matrix Spike Duplicate: No MS/MSD analyses were performed on the sample in this SDG. Method accuracy and precision was evaluated based on LCS/LCSD results.
- 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: The sample in this SDG was identified as a field blank. There were no reportable detects in this sample.
 - Field Duplicates: There were no field duplicate samples identified for this SDG.
- Compound Identification: Not applicable at a Level V validation.
- Compound Quantification and Reported Detection Limits: Not applicable at a Level V validation. Any result reported between the MDL and the reporting limit was qualified as estimated, "J." Reported nondetects are valid to the reporting limit.

E. EPA METHOD 8015B—Extractable Total Fuel Hydrocarbons (EFHs)

Reviewed By: P. Meeks

Date Reviewed: June 19, 2009

The sample listed in Table 1 for this analysis was validated based on the guidelines outlined in the *MEC^X Data Validation Procedure for Total Fuel Hydrocarbons (DVP-8, Rev. 0)*, *EPA Method 8015B*, and the *National Functional Guidelines for Organic Data Review (10/99)*.

- Holding Times: Extraction and analytical holding times were met. The water sample was extracted within seven days of collection and analyzed within 40 days of extraction.
- Calibration: Not applicable at a Level V validation.
- Blanks: The method blanks had no target compound detects above the MDL.
- Blank Spikes and Laboratory Control Samples: Recoveries and RPDs were within laboratory-established QC limits.
- Surrogate Recovery: Recoveries were within laboratory-established QC limits.
- Matrix Spike/Matrix Spike Duplicate: No MS/MSD analyses were performed on the sample in this SDG. Method accuracy and precision was evaluated based on LCS/LCSD results.
- 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: The sample in this SDG was identified as a field blank. There were no reportable detects in this sample.
 - Field Duplicates: There were no field duplicate samples identified for this SDG.
- Compound Identification: Not applicable at a Level V validation.
- Compound Quantification and Reported Detection Limits: Not applicable at a Level V validation. Any result reported between the MDL and the reporting limit was qualified as estimated, "J." Reported nondetects are valid to the reporting limit.

F. EPA METHOD 8260B—Volatile Organic Compounds (VOCs)

Reviewed By: P. Meeks

Date Reviewed: June 19, 2009

The sample listed in Table 1 for this analysis was validated based on the guidelines outlined in the *MEC^X Data Validation Procedure for Volatile Organics (DVP-2, Rev. 0)*, *EPA Method 8260B*, and the *National Functional Guidelines for Organic Data Review (10/99)*.

- Holding Times: Analytical holding times were met. The preserved water sample was analyzed within 14 days of collection.
- GC/MS Tuning: Not applicable at a Level V validation.
- Calibration: Not applicable at a Level V validation.
- Blanks: Method blanks had no target compound detects above the MDL.
- Blank Spikes and Laboratory Control Samples: Recoveries were within laboratory-established QC limits.
- Surrogate Recovery: Recoveries were within laboratory-established QC limits.
- Matrix Spike/Matrix Spike Duplicate: No MS/MSD analyses were performed on the sample in this SDG. Method accuracy was evaluated based on LCS results.
- 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:
 - Trip Blanks: This SDG had no identified trip blank.
 - Field Blanks and Equipment Rinsates: The sample in this SDG was identified as a field blank. Chloroform was detected in the samples at 0.373 µg/L.
 - Field Duplicates: There were no field duplicate samples identified for this SDG.
- Internal Standards Performance: Not applicable at a Level V validation.
- Compound Identification: Not applicable at a Level V validation.
- Compound Quantification and Reported Detection Limits: Not applicable at a Level V validation. Any result reported between the MDL and the reporting limit was qualified as estimated, "J." Reported nondetects are valid to the reporting limit.

- Tentatively Identified Compounds: TICs were not reported by the laboratory for this SDG.
- System Performance: Review of the raw data indicated no problems with system performance.

Validated Sample Result Forms: 230761

Analysis Method 1613B

Sample Name	EBQW2215	Matrix Type:	Water	Result Type:	Primary Result			
Lab Sample Name:	G341-583-17B	Sample Date:	6/1/2009 2:25:00 PM	Validation Level:	V			
Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
1,2,3,4,6,7,8-HpCDD	35822469	0.000193	0.0474#####		NG/L	U	U	
1,2,3,4,6,7,8-HpCDF	67562394	0.0001	0.0474	0.0001	NG/L	U	U	
1,2,3,4,7,8,9-HpCDF	55673897	0.000161	0.0474#####		NG/L	U	U	
1,2,3,4,7,8-HxCDD	39227286	0.000155	0.0474#####		NG/L	U	U	
1,2,3,4,7,8-HxCDF	70648269	0.0000815	0.0474#####		NG/L	U	U	
1,2,3,6,7,8-HxCDD	57653857	0.000154	0.0474#####		NG/L	U	U	
1,2,3,6,7,8-HxCDF	57117449	0.0000758	0.0474#####		NG/L	U	U	
1,2,3,7,8,9-HxCDD	19408743	0.000155	0.0474#####		NG/L	U	U	
1,2,3,7,8,9-HxCDF	72918219	0.0001	0.0474	0.0001	NG/L	U	U	
1,2,3,7,8-PeCDD	40321764	0.000142	0.0474#####		NG/L	U	U	
1,2,3,7,8-PeCDF	57117416	0.000341	0.0474#####		NG/L	EMPC	UJ	*III
2,3,4,6,7,8-HxCDF	60851345	0.0000796	0.0474#####		NG/L	U	U	
2,3,4,7,8-PeCDF	57117314	0.000436	0.0474#####		NG/L	A	J	
2,3,7,8-TCDD	1746016	0.000262	0.00948#####		NG/L	U	U	
2,3,7,8-TCDF	51207319	0.0000891	0.00948#####		NG/L	U	U	
OCDD	3268879	0.000366	0.0948#####		NG/L	U	U	
OCDF	39001020	0.000307	0.0948#####		NG/L	U	U	
Total HpCDDs	37871004	0.000193	0.0474#####		NG/L	U	U	
Total HpCDFs	38998753	0.00019	0.0474#####		NG/L	A	J	
Total HxCDDs	34465468	0.000155	0.0474#####		NG/L	U	U	
Total HxCDFs	55684941	0.000569	0.0474#####		NG/L	A	J	
Total PeCDDs	36088229	0.000142	0.0474#####		NG/L	U	U	
Total PeCDFs	30402154	0.000436	0.0474#####		NG/L	A	J	
Total TCDDs	41903575	0.000262	0.00948#####		NG/L	U	U	
Total TCDFs	30402143	0.0000891	0.00948#####		NG/L	U	U	

Analysis Method 1613B

Sample Name	FBQW2231	Matrix Type:	Water	Result Type:	Primary Result			
Lab Sample Name:	G341-583-16B	Sample Date:	6/1/2009 2:05:00 PM	Validation Level:	V			
Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
1,2,3,4,6,7,8-HpCDD	35822469	0.00025	0.0474	0.00025	NG/L	U	U	
1,2,3,4,6,7,8-HpCDF	67562394	0.000093	0.0474	#####	NG/L	U	U	
1,2,3,4,7,8,9-HpCDF	55673897	0.000154	0.0474	#####	NG/L	U	U	
1,2,3,4,7,8-HxCDD	39227286	0.000213	0.0474	#####	NG/L	U	U	
1,2,3,4,7,8-HxCDF	70648269	0.0000778	0.0474	#####	NG/L	U	U	
1,2,3,6,7,8-HxCDD	57653857	0.00018	0.0474	0.00018	NG/L	U	U	
1,2,3,6,7,8-HxCDF	57117449	0.000304	0.0474	#####	NG/L	EMPC	UJ	*III
1,2,3,7,8,9-HxCDD	19408743	0.000197	0.0474	#####	NG/L	U	U	
1,2,3,7,8,9-HxCDF	72918219	0.000102	0.0474	#####	NG/L	U	U	
1,2,3,7,8-PeCDD	40321764	0.000307	0.0474	#####	NG/L	U	U	
1,2,3,7,8-PeCDF	57117416	0.000285	0.0474	#####	NG/L	EMPC	UJ	*III
2,3,4,6,7,8-HxCDF	60851345	0.0000797	0.0474	#####	NG/L	U	U	
2,3,4,7,8-PeCDF	57117314	0.000398	0.0474	#####	NG/L	EMPC	UJ	*III
2,3,7,8-TCDD	1746016	0.000645	0.00949	#####	NG/L	EMPC	UJ	*III
2,3,7,8-TCDF	51207319	0.000108	0.00949	#####	NG/L	U	U	
OCDD	3268879	0.000402	0.0949	#####	NG/L	U	U	
OCDF	39001020	0.000398	0.0949	#####	NG/L	U	U	
Total HpCDDs	37871004	0.00025	0.0474	0.00025	NG/L	U	U	
Total HpCDFs	38998753	0.00012	0.0474	0.00012	NG/L	U	U	
Total HxCDDs	34465468	0.000195	0.0474	#####	NG/L	U	U	
Total HxCDFs	55684941	0.0000835	0.0474	#####	NG/L	U	U	
Total PeCDDs	36088229	0.000307	0.0474	#####	NG/L	U	U	
Total PeCDFs	30402154	0.0000873	0.0474	#####	NG/L	U	U	
Total TCDDs	41903575	0.000336	0.00949	#####	NG/L	U	U	
Total TCDFs	30402143	0.000108	0.00949	#####	NG/L	U	U	

Analysis Method 1613B

Sample Name	HZBS0065S001	Matrix Type:	Soil	Result Type:	Primary Result			
Lab Sample Name:	G341-583-20B	Sample Date:	2/24/2009 11:39:00 AM	Validation Level:	V			
Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
1,2,3,4,6,7,8-HpCDD	35822469	14.2	4.55	0.19	PG/G			
1,2,3,4,6,7,8-HpCDF	67562394	2.17	4.55	0.0506	PG/G	A	J	
1,2,3,4,7,8,9-HpCDF	55673897	0.182	4.55	0.182	PG/G	EMPC	UJ	*III
1,2,3,4,7,8-HxCDD	39227286	0.12	4.55	0.106	PG/G	A	J	
1,2,3,4,7,8-HxCDF	70648269	0.229	4.55	0.124	PG/G	A	J	
1,2,3,6,7,8-HxCDD	57653857	1.04	4.55	1.04	PG/G	EMPC	UJ	*III
1,2,3,6,7,8-HxCDF	57117449	0.208	4.55	0.125	PG/G	A	J	
1,2,3,7,8,9-HxCDD	19408743	1.09	4.55	0.103	PG/G	A	J	
1,2,3,7,8,9-HxCDF	72918219	0.297	4.55	0.162	PG/G	A	J	
1,2,3,7,8-PeCDD	40321764	0.157	4.55	0.0666	PG/G	A	J	
1,2,3,7,8-PeCDF	57117416	0.158	4.55	0.097	PG/G	ADPE	J	*III
2,3,4,6,7,8-HxCDF	60851345	0.244	4.55	0.129	PG/G	A	J	
2,3,4,7,8-PeCDF	57117314	0.335	4.55	0.103	PG/G	A	J	
2,3,7,8-TCDD	1746016	0.0126	0.91	0.0126	PG/G	U	U	
2,3,7,8-TCDF	51207319	0.91	0.91	0.91	PG/G	A	U	B, result changed from 0.41 and MDL from 0.0743
OCDD	3268879	238	9.1	0.182	PG/G			
OCDF	39001020	5.09	9.1	0.119	PG/G	A	J	
Total HpCDDs	37871004	70.6	4.55	0.19	PG/G			
Total HpCDFs	38998753	5.7	4.55	0.0654	PG/G			
Total HxCDDs	34465468	5.13	4.55	0.103	PG/G			
Total HxCDFs	55684941	4.7	4.55	0.134	PG/G			
Total PeCDDs	36088229	0.949	4.55	0.0666	PG/G	A	J	
Total PeCDFs	30402154	3.79	4.55	0.1	PG/G	DPE	J	*III
Total TCDDs	41903575	3.3	0.91	3.3	PG/G	U	U	
Total TCDFs	30402143	2.43	0.91	0.0743	PG/G	DPE	J	B,*III

Analysis Method 1613B

Sample Name HZBS0085S001 **Matrix Type:** Soil **Result Type:** Primary Result
Lab Sample Name: G341-583-19B **Sample Date:** 2/25/2009 12:00:00 PM **Validation Level:** V

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
1,2,3,4,6,7,8-HpCDD	35822469	16.5	4.29	0.143	PG/G			
1,2,3,4,6,7,8-HpCDF	67562394	25.5	4.29	0.135	PG/G			
1,2,3,4,7,8,9-HpCDF	55673897	1.72	4.29	0.205	PG/G	A	J	
1,2,3,4,7,8-HxCDD	39227286	0.407	4.29	0.1	PG/G	A	J	
1,2,3,4,7,8-HxCDF	70648269	3.99	4.29	0.35	PG/G	A	J	
1,2,3,6,7,8-HxCDD	57653857	1.34	4.29	0.107	PG/G	A	J	
1,2,3,6,7,8-HxCDF	57117449	2.68	4.29	0.312	PG/G	A	J	
1,2,3,7,8,9-HxCDD	19408743	1.18	4.29	0.104	PG/G	A	J	
1,2,3,7,8,9-HxCDF	72918219	0.717	4.29	0.445	PG/G	A	J	
1,2,3,7,8-PeCDD	40321764	0.324	4.29	0.0722	PG/G	A	J	
1,2,3,7,8-PeCDF	57117416	1.05	4.29	0.107	PG/G	A	J	
2,3,4,6,7,8-HxCDF	60851345	3.43	4.29	0.342	PG/G	A	J	
2,3,4,7,8-PeCDF	57117314	2.12	4.29	0.111	PG/G	A	J	
2,3,7,8-TCDD	1746016	0.0978	0.858	0.0978	PG/G	EMPC	UJ	*III
2,3,7,8-TCDF	51207319	1.01	0.858	0.339	PG/G			
OCDD	3268879	162	8.58	0.188	PG/G			
OCDF	39001020	25.6	8.58	0.17	PG/G			
Total HpCDDs	37871004	60.4	4.29	0.143	PG/G			
Total HpCDFs	38998753	35.8	4.29	0.165	PG/G			
Total HxCDDs	34465468	9.86	4.29	0.104	PG/G			
Total HxCDFs	55684941	29.2	4.29	0.358	PG/G	DPE	J	*III
Total PeCDDs	36088229	2.02	4.29	0.0722	PG/G	A	J	
Total PeCDFs	30402154	23.6	4.29	0.109	PG/G	DPE	J	*III
Total TCDDs	41903575	2.95	0.858	2.95	PG/G	U	U	
Total TCDFs	30402143	10.5	0.858	0.111	PG/G	DPE	J	*III

Analysis Method 1613B

Sample Name HZBS0110S001 **Matrix Type:** Soil **Result Type:** Primary Result
Lab Sample Name: G341-583-2B **Sample Date:** 6/1/2009 8:00:00 AM **Validation Level:** V

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	4.34	0.499	PG/G			
1,2,3,4,6,7,8-HpCDF	67562394	18.7	4.34	0.176	PG/G			
1,2,3,4,7,8,9-HpCDF	55673897	0.805	4.34	0.282	PG/G	A	J	
1,2,3,4,7,8-HxCDD	39227286	1.05	4.34	0.134	PG/G	A	J	
1,2,3,4,7,8-HxCDF	70648269	1.11	4.34	0.176	PG/G	A	J	
1,2,3,6,7,8-HxCDD	57653857	4.89	4.34	0.12	PG/G			
1,2,3,6,7,8-HxCDF	57117449	0.59	4.34	0.186	PG/G	A	J	
1,2,3,7,8,9-HxCDD	19408743	2.37	4.34	0.128	PG/G	A	J	
1,2,3,7,8,9-HxCDF	72918219	0.77	4.34	0.259	PG/G	A	J	
1,2,3,7,8-PeCDD	40321764	0.481	4.34	0.0859	PG/G	A	J	
1,2,3,7,8-PeCDF	57117416	0.444	4.34	0.0916	PG/G	A	J	
2,3,4,6,7,8-HxCDF	60851345	0.748	4.34	0.184	PG/G	A	J	
2,3,4,7,8-PeCDF	57117314	0.76	4.34	0.0916	PG/G	A	J	
2,3,7,8-TCDD	1746016	0.128	0.867	0.128	PG/G	EMPC	UJ	*III
2,3,7,8-TCDF	51207319	0.392	0.867	0.0893	PG/G	ADPE	UJ	B,*III
OCDD	3268879	2290	8.67	0.214	PG/G			
OCDF	39001020	55.8	8.67	0.155	PG/G			
Total HpCDDs	37871004	877	4.34	0.499	PG/G			
Total HpCDFs	38998753	69.5	4.34	0.221	PG/G			
Total HxCDDs	34465468	44.1	4.34	0.127	PG/G			
Total HxCDFs	55684941	34.2	4.34	0.198	PG/G			
Total PeCDDs	36088229	3.71	4.34	0.0859	PG/G	A	J	
Total PeCDFs	30402154	7.18	4.34	0.0916	PG/G	DPE	J	*III
Total TCDDs	41903575	2.29	0.867	2.29	PG/G	U	U	
Total TCDFs	30402143	2.04	0.867	0.0893	PG/G	DPE	J	B,*III

Analysis Method 1613B

Sample Name	HZBS0111S001	Matrix Type:	Soil	Result Type:	Primary Result			
Lab Sample Name:	G341-583-6B	Sample Date:	6/1/2009 8:28:00 AM	Validation Level:	V			
Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
1,2,3,4,6,7,8-HpCDD	35822469	55.7	4.31	0.231	PG/G			
1,2,3,4,6,7,8-HpCDF	67562394	5.38	4.31	0.0872	PG/G			
1,2,3,4,7,8,9-HpCDF	55673897	0.412	4.31	0.147	PG/G	A	J	
1,2,3,4,7,8-HxCDD	39227286	0.444	4.31	0.444	PG/G	EMPC	UJ	*III
1,2,3,4,7,8-HxCDF	70648269	0.382	4.31	0.078	PG/G	A	J	
1,2,3,6,7,8-HxCDD	57653857	1.73	4.31	0.0894	PG/G	A	J	
1,2,3,6,7,8-HxCDF	57117449	0.215	4.31	0.215	PG/G	EMPC	UJ	*III
1,2,3,7,8,9-HxCDD	19408743	1.02	4.31	0.0946	PG/G	A	J	
1,2,3,7,8,9-HxCDF	72918219	0.229	4.31	0.229	PG/G	EMPC	UJ	*III
1,2,3,7,8-PeCDD	40321764	0.262	4.31	0.0313	PG/G	A	J	
1,2,3,7,8-PeCDF	57117416	0.122	4.31	0.0598	PG/G	A	J	
2,3,4,6,7,8-HxCDF	60851345	0.26	4.31	0.0816	PG/G	A	J	
2,3,4,7,8-PeCDF	57117314	0.251	4.31	0.0641	PG/G	A	J	
2,3,7,8-TCDD	1746016	0.0672	0.861	0.0672	PG/G	EMPC	UJ	*III
2,3,7,8-TCDF	51207319	0.861	0.861	0.861	PG/G	A	U	B, result changed from 0.277 and MDL from 0.0186
OCDD	3268879	1080	8.61	0.0551	PG/G			
OCDF	39001020	16	8.61	0.0305	PG/G			
Total HpCDDs	37871004	311	4.31	0.231	PG/G			
Total HpCDFs	38998753	18.6	4.31	0.114	PG/G			
Total HxCDDs	34465468	14.3	4.31	0.0942	PG/G			
Total HxCDFs	55684941	8.29	4.31	0.087	PG/G			
Total PeCDDs	36088229	1.15	4.31	0.0313	PG/G	A	J	
Total PeCDFs	30402154	2.62	4.31	0.0618	PG/G	ADPE	J	*III
Total TCDDs	41903575	1.9	0.861	1.9	PG/G	U	U	
Total TCDFs	30402143	0.951	0.861	0.0186	PG/G	DPE	J	B,*III

Analysis Method 1613B

Sample Name	HZBS0112S001	Matrix Type:	Soil	Result Type:	Primary Result			
Lab Sample Name:	G341-583-12B	Sample Date:	6/1/2009 9:44:00 AM	Validation Level:	V			
Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
1,2,3,4,6,7,8-HpCDD	35822469	70.2	4.63	0.257	PG/G			
1,2,3,4,6,7,8-HpCDF	67562394	10.3	4.63	0.0967	PG/G			
1,2,3,4,7,8,9-HpCDF	55673897	0.739	4.63	0.739	PG/G	EMPC	UJ	*III
1,2,3,4,7,8-HxCDD	39227286	0.739	4.63	0.129	PG/G	A	J	
1,2,3,4,7,8-HxCDF	70648269	1.09	4.63	0.247	PG/G	A	J	
1,2,3,6,7,8-HxCDD	57653857	1.8	4.63	0.125	PG/G	A	J	
1,2,3,6,7,8-HxCDF	57117449	0.522	4.63	0.239	PG/G	A	J	
1,2,3,7,8,9-HxCDD	19408743	1.17	4.63	1.17	PG/G	EMPC	UJ	*III
1,2,3,7,8,9-HxCDF	72918219	0.307	4.63	0.307	PG/G	U	U	
1,2,3,7,8-PeCDD	40321764	0.398	4.63	0.0622	PG/G	A	J	
1,2,3,7,8-PeCDF	57117416	0.346	4.63	0.346	PG/G	EMPC	UJ	*III
2,3,4,6,7,8-HxCDF	60851345	0.704	4.63	0.239	PG/G	A	J	
2,3,4,7,8-PeCDF	57117314	0.667	4.63	0.134	PG/G	A	J	
2,3,7,8-TCDD	1746016	0.154	0.926	0.154	PG/G	EMPC	UJ	*III
2,3,7,8-TCDF	51207319	0.504	0.926	0.18	PG/G	A	U	B, result changed from 0.504 and MDL from 0.18
OCDD	3268879	821	9.26	0.0539	PG/G			
OCDF	39001020	31.6	9.26	0.0385	PG/G			
Total HpCDDs	37871004	294	4.63	0.257	PG/G			
Total HpCDFs	38998753	29.7	4.63	0.12	PG/G			
Total HxCDDs	34465468	20.2	4.63	0.127	PG/G			
Total HxCDFs	55684941	14.5	4.63	0.256	PG/G	DPE	J	*III
Total PeCDDs	36088229	4.17	4.63	0.0622	PG/G	A	J	
Total PeCDFs	30402154	6.78	4.63	0.141	PG/G	DPE	J	*III
Total TCDDs	41903575	3.19	0.926	3.19	PG/G	U	U	
Total TCDFs	30402143	2.58	0.926	0.18	PG/G	DPE	J	B,*III

Analysis Method 1613B

Sample Name	HZBS0115S001	Matrix Type:	Soil	Result Type:	Primary Result			
Lab Sample Name:	G341-583-18B	Sample Date:	6/1/2009 3:15:00 PM	Validation Level:	V			
Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
1,2,3,4,6,7,8-HpCDD	35822469	126	4.3	0.507	PG/G			
1,2,3,4,6,7,8-HpCDF	67562394	15.4	4.3	0.16	PG/G			
1,2,3,4,7,8,9-HpCDF	55673897	0.753	4.3	0.26	PG/G	A	J	
1,2,3,4,7,8-HxCDD	39227286	0.975	4.3	0.183	PG/G	A	J	
1,2,3,4,7,8-HxCDF	70648269	0.518	4.3	0.226	PG/G	A	J	
1,2,3,6,7,8-HxCDD	57653857	3.19	4.3	0.172	PG/G	A	J	
1,2,3,6,7,8-HxCDF	57117449	0.378	4.3	0.206	PG/G	A	J	
1,2,3,7,8,9-HxCDD	19408743	2.27	4.3	0.178	PG/G	A	J	
1,2,3,7,8,9-HxCDF	72918219	0.283	4.3	0.283	PG/G	U	U	
1,2,3,7,8-PeCDD	40321764	0.497	4.3	0.0399	PG/G	A	J	
1,2,3,7,8-PeCDF	57117416	0.189	4.3	0.116	PG/G	A	J	
2,3,4,6,7,8-HxCDF	60851345	0.588	4.3	0.23	PG/G	A	J	
2,3,4,7,8-PeCDF	57117314	0.504	4.3	0.118	PG/G	A	J	
2,3,7,8-TCDD	1746016	0.101	0.86	0.101	PG/G	EMPC	UJ	*III
2,3,7,8-TCDF	51207319	0.86	0.86	0.86	PG/G	A	U	B, result changed from 0.413 and MDL from 0.157
OCDD	3268879	1810	8.6	0.0487	PG/G			
OCDF	39001020	69	8.6	0.0796	PG/G			
Total HpCDDs	37871004	508	4.3	0.507	PG/G			
Total HpCDFs	38998753	49.2	4.3	0.202	PG/G			
Total HxCDDs	34465468	25.4	4.3	0.178	PG/G			
Total HxCDFs	55684941	14.4	4.3	0.234	PG/G	DPE	J	*III
Total PeCDDs	36088229	3.2	4.3	0.0399	PG/G	A	J	
Total PeCDFs	30402154	6.77	4.3	0.117	PG/G	DPE	J	*III
Total TCDDs	41903575	4.44	0.86	4.44	PG/G	U	U	
Total TCDFs	30402143	2.38	0.86	0.157	PG/G	DPE	J	B,*III

Analysis Method 1613B

Sample Name	HZBS0118S001	Matrix Type:	Soil	Result Type:	Primary Result			
Lab Sample Name:	G341-583-11B	Sample Date:	6/1/2009 9:26:00 AM	Validation Level:	V			
Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
1,2,3,4,6,7,8-HpCDD	35822469	17.4	4.34	0.201	PG/G			
1,2,3,4,6,7,8-HpCDF	67562394	2.04	4.34	0.0663	PG/G	A	J	
1,2,3,4,7,8,9-HpCDF	55673897	0.196	4.34	0.0991	PG/G	A	J	
1,2,3,4,7,8-HxCDD	39227286	0.16	4.34	0.16	PG/G	EMPC	UJ	*III
1,2,3,4,7,8-HxCDF	70648269	0.224	4.34	0.0488	PG/G	A	J	
1,2,3,6,7,8-HxCDD	57653857	0.562	4.34	0.072	PG/G	A	J	
1,2,3,6,7,8-HxCDF	57117449	0.167	4.34	0.0463	PG/G	A	J	
1,2,3,7,8,9-HxCDD	19408743	0.439	4.34	0.439	PG/G	EMPC	UJ	*III
1,2,3,7,8,9-HxCDF	72918219	0.149	4.34	0.0668	PG/G	A	J	
1,2,3,7,8-PeCDD	40321764	0.102	4.34	0.0397	PG/G	A	J	
1,2,3,7,8-PeCDF	57117416	0.13	4.34	0.0708	PG/G	A	J	
2,3,4,6,7,8-HxCDF	60851345	0.207	4.34	0.0503	PG/G	A	J	
2,3,4,7,8-PeCDF	57117314	0.278	4.34	0.0706	PG/G	A	J	
2,3,7,8-TCDD	1746016	0.0798	0.868	0.0798	PG/G	EMPC	UJ	*III
2,3,7,8-TCDF	51207319	0.309	0.868	0.0441	PG/G	A	U	B, result changed from 0.309 and MDL from 0.0441
OCDD	3268879	234	8.68	0.0574	PG/G			
OCDF	39001020	5.24	8.68	0.0692	PG/G	A	J	
Total HpCDDs	37871004	95.3	4.34	0.201	PG/G			
Total HpCDFs	38998753	6.47	4.34	0.0804	PG/G			
Total HxCDDs	34465468	5.02	4.34	0.0739	PG/G			
Total HxCDFs	55684941	4.1	4.34	0.0524	PG/G	ADPE	J	*III
Total PeCDDs	36088229	0.262	4.34	0.154	PG/G	A	J	
Total PeCDFs	30402154	2.86	4.34	0.0706	PG/G	ADPE	J	*III
Total TCDDs	41903575	2.41	0.868	2.41	PG/G	U	U	
Total TCDFs	30402143	2.39	0.868	0.0441	PG/G	DPE	J	B,*III

Analysis Method 1613B

Sample Name	HZBS0120S001	Matrix Type:	Soil	Result Type:	Primary Result			
Lab Sample Name:	G341-583-9B	Sample Date:	6/1/2009 9:03:00 AM	Validation Level:	V			
Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
1,2,3,4,6,7,8-HpCDD	35822469	11.1	4.6	0.0968	PG/G			
1,2,3,4,6,7,8-HpCDF	67562394	1.9	4.6	0.0289	PG/G	A	J	
1,2,3,4,7,8,9-HpCDF	55673897	0.12	4.6	0.12	PG/G	EMPC	UJ	*III
1,2,3,4,7,8-HxCDD	39227286	0.171	4.6	0.044	PG/G	A	J	
1,2,3,4,7,8-HxCDF	70648269	0.235	4.6	0.0793	PG/G	A	J	
1,2,3,6,7,8-HxCDD	57653857	1.05	4.6	0.044	PG/G	A	J	
1,2,3,6,7,8-HxCDF	57117449	0.224	4.6	0.224	PG/G	EMPC	UJ	*III
1,2,3,7,8,9-HxCDD	19408743	1.41	4.6	0.0443	PG/G	A	J	
1,2,3,7,8,9-HxCDF	72918219	0.156	4.6	0.107	PG/G	A	J	
1,2,3,7,8-PeCDD	40321764	0.215	4.6	0.0458	PG/G	A	J	
1,2,3,7,8-PeCDF	57117416	0.142	4.6	0.142	PG/G	EMPC	UJ	*III
2,3,4,6,7,8-HxCDF	60851345	0.217	4.6	0.0846	PG/G	A	J	
2,3,4,7,8-PeCDF	57117314	0.456	4.6	0.0804	PG/G	A	J	
2,3,7,8-TCDD	1746016	0.0957	0.92	0.0957	PG/G	EMPC	UJ	*III
2,3,7,8-TCDF	51207319	0.92	0.92	0.92	PG/G	A	U	B, result changed from 0.688 and MDL from 0.0723
OCDD	3268879	147	9.2	0.0912	PG/G			
OCDF	39001020	4.28	9.2	0.0432	PG/G	A	J	
Total HpCDDs	37871004	57.5	4.6	0.0968	PG/G			
Total HpCDFs	38998753	5.15	4.6	0.0348	PG/G			
Total HxCDDs	34465468	6.77	4.6	0.0441	PG/G			
Total HxCDFs	55684941	3.64	4.6	0.087	PG/G	A	J	
Total PeCDDs	36088229	1.24	4.6	0.0458	PG/G	A	J	
Total PeCDFs	30402154	3.36	4.6	0.0822	PG/G	ADPE	J	*III
Total TCDDs	41903575	2.91	0.92	2.91	PG/G	U	U	
Total TCDFs	30402143	2.62	0.92	0.0723	PG/G	DPE	J	B,*III

Analysis Method 1613B

Sample Name HZBS0123D001 Matrix Type: Soil Result Type: Primary Result
 Lab Sample Name: G341-583-1B Sample Date: 6/1/2009 Validation Level: V

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
1,2,3,4,6,7,8-HpCDD	35822469	2.79	4.16	0.179	PG/G	A	J	
1,2,3,4,6,7,8-HpCDF	67562394	0.733	4.16	0.0921	PG/G	A	J	
1,2,3,4,7,8,9-HpCDF	55673897	0.14	4.16	0.14	PG/G	U	U	
1,2,3,4,7,8-HxCDD	39227286	0.122	4.16	0.122	PG/G	U	U	
1,2,3,4,7,8-HxCDF	70648269	0.127	4.16	0.0923	PG/G	A	J	
1,2,3,6,7,8-HxCDD	57653857	0.217	4.16	0.115	PG/G	A	J	
1,2,3,6,7,8-HxCDF	57117449	0.102	4.16	0.0893	PG/G	A	J	
1,2,3,7,8,9-HxCDD	19408743	0.207	4.16	0.119	PG/G	A	J	
1,2,3,7,8,9-HxCDF	72918219	0.126	4.16	0.126	PG/G	U	U	
1,2,3,7,8-PeCDD	40321764	0.157	4.16	0.157	PG/G	U	U	
1,2,3,7,8-PeCDF	57117416	0.127	4.16	0.0834	PG/G	A	J	
2,3,4,6,7,8-HxCDF	60851345	0.147	4.16	0.147	PG/G	EMPC	UJ	*III
2,3,4,7,8-PeCDF	57117314	0.222	4.16	0.0843	PG/G	A	J	
2,3,7,8-TCDD	1746016	0.0493	0.833	0.0493	PG/G	U	U	
2,3,7,8-TCDF	51207319	0.833	0.833	0.833	PG/G	A	U	B, result changed from 0.378 and MDL from 0.0931
OCDD	3268879	22.6	8.33	0.365	PG/G			
OCDF	39001020	1.36	8.33	0.319	PG/G	A	J	
Total HpCDDs	37871004	9.86	4.16	0.179	PG/G			
Total HpCDFs	38998753	1.38	4.16	0.113	PG/G	A	J	
Total HxCDDs	34465468	1.27	4.16	0.118	PG/G	A	J	
Total HxCDFs	55684941	1.72	4.16	0.0981	PG/G	A	J	
Total PeCDDs	36088229	0.238	4.16	0.157	PG/G	A	J	
Total PeCDFs	30402154	2.75	4.16	0.0838	PG/G	A	J	
Total TCDDs	41903575	1.92	0.833	1.92	PG/G	U	U	
Total TCDFs	30402143	1.42	0.833	0.0931	PG/G		J	B

Analysis Method 1613B

Sample Name	HZBS0123S001	Matrix Type:	Soil	Result Type:	Primary Result			
Lab Sample Name:	G341-583-15B	Sample Date:	6/1/2009 11:17:00 AM	Validation Level:	V			
Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
1,2,3,4,6,7,8-HpCDD	35822469	2.94	4.39	0.0939	PG/G	A	J	
1,2,3,4,6,7,8-HpCDF	67562394	0.79	4.39	0.0149	PG/G	A	J	
1,2,3,4,7,8,9-HpCDF	55673897	0.0562	4.39	0.0244	PG/G	A	J	
1,2,3,4,7,8-HxCDD	39227286	0.0435	4.39	0.0435	PG/G	U	U	
1,2,3,4,7,8-HxCDF	70648269	0.128	4.39	0.0571	PG/G	A	J	
1,2,3,6,7,8-HxCDD	57653857	0.197	4.39	0.0404	PG/G	A	J	
1,2,3,6,7,8-HxCDF	57117449	0.135	4.39	0.0569	PG/G	A	J	
1,2,3,7,8,9-HxCDD	19408743	0.219	4.39	0.0421	PG/G	A	J	
1,2,3,7,8,9-HxCDF	72918219	0.0762	4.39	0.0762	PG/G	U	U	
1,2,3,7,8-PeCDD	40321764	0.0378	4.39	0.0378	PG/G	U	U	
1,2,3,7,8-PeCDF	57117416	0.116	4.39	0.116	PG/G	EMPC	UJ	*III
2,3,4,6,7,8-HxCDF	60851345	0.158	4.39	0.158	PG/G	EMPC	UJ	*III
2,3,4,7,8-PeCDF	57117314	0.279	4.39	0.0795	PG/G	A	J	
2,3,7,8-TCDD	1746016	0.0149	0.878	0.0149	PG/G	U	U	
2,3,7,8-TCDF	51207319	0.878	0.878	0.878	PG/G	A	U	B, result changed from 0.444 and MDL from 0.0557
OCDD	3268879	23.2	8.78	0.0488	PG/G			
OCDF	39001020	1.33	8.78	0.0414	PG/G	A	J	
Total HpCDDs	37871004	10.1	4.39	0.0939	PG/G			
Total HpCDFs	38998753	1.54	4.39	0.0191	PG/G	A	J	
Total HxCDDs	34465468	1.74	4.39	0.042	PG/G	A	J	
Total HxCDFs	55684941	1.64	4.39	0.0611	PG/G	A	J	
Total PeCDDs	36088229	0.183	4.39	0.0878	PG/G	A	J	
Total PeCDFs	30402154	2.79	4.39	0.0788	PG/G	ADPE	J	*III
Total TCDDs	41903575	0.79	0.878	0.79	PG/G	U	U	
Total TCDFs	30402143	2.25	0.878	0.0557	PG/G	DPE	J	B,*III

Analysis Method 1613B

Sample Name	HZBS0124S001	Matrix Type:	Soil	Result Type:	Primary Result			
Lab Sample Name:	G341-583-14B	Sample Date:	6/1/2009 10:58:00 AM	Validation Level:	V			
Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
1,2,3,4,6,7,8-HpCDD	35822469	2.41	4.41	0.0362	PG/G	A	J	
1,2,3,4,6,7,8-HpCDF	67562394	0.534	4.41	0.0229	PG/G	A	J	
1,2,3,4,7,8,9-HpCDF	55673897	0.0367	4.41	0.0367	PG/G	U	U	
1,2,3,4,7,8-HxCDD	39227286	0.0406	4.41	0.0379	PG/G	A	J	
1,2,3,4,7,8-HxCDF	70648269	0.0758	4.41	0.0758	PG/G	EMPC	UJ	*III
1,2,3,6,7,8-HxCDD	57653857	0.213	4.41	0.0335	PG/G	A	J	
1,2,3,6,7,8-HxCDF	57117449	0.0864	4.41	0.0474	PG/G	A	J	
1,2,3,7,8,9-HxCDD	19408743	0.286	4.41	0.0358	PG/G	A	J	
1,2,3,7,8,9-HxCDF	72918219	0.0633	4.41	0.0633	PG/G	U	U	
1,2,3,7,8-PeCDD	40321764	0.0741	4.41	0.0741	PG/G	EMPC	UJ	*III
1,2,3,7,8-PeCDF	57117416	0.0847	4.41	0.0489	PG/G	A	J	
2,3,4,6,7,8-HxCDF	60851345	0.0953	4.41	0.0483	PG/G	A	J	
2,3,4,7,8-PeCDF	57117314	0.173	4.41	0.0512	PG/G	A	J	
2,3,7,8-TCDD	1746016	0.0706	0.882	0.0706	PG/G	EMPC	UJ	*III
2,3,7,8-TCDF	51207319	0.882	0.882	0.882	PG/G	A	U	B, result changed from 0.266 and MDL from 0.0263
OCDD	3268879	19.2	8.82	0.0603	PG/G			
OCDF	39001020	1.12	8.82	1.12	PG/G	EMPC	UJ	*III
Total HpCDDs	37871004	8.29	4.41	0.0362	PG/G			
Total HpCDFs	38998753	1.08	4.41	0.0288	PG/G	A	J	
Total HxCDDs	34465468	1.59	4.41	0.0356	PG/G	A	J	
Total HxCDFs	55684941	1.16	4.41	0.0512	PG/G	A	J	
Total PeCDDs	36088229	0.109	4.41	0.109	PG/G	U	U	
Total PeCDFs	30402154	1.32	4.41	0.0501	PG/G	ADPE	J	*III
Total TCDDs	41903575	0.89	0.882	0.89	PG/G	U	U	
Total TCDFs	30402143	1.45	0.882	0.0263	PG/G		J	B

Analysis Method 6010B

Sample Name	FBQW2231	Matrix Type:	WATER	Result Type:	Primary Result			
Lab Sample Name:	230761016	Sample Date:	6/1/2009 2:05:00 PM	Validation Level:	V			
Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Aluminum	7429905	68	200	68	ug/L	U	U	

Analysis Method 6020

Sample Name	EBQW2215	Matrix Type:	WATER		Result Type:	Primary Result		
Lab Sample Name:	230761017	Sample Date:	6/1/2009 2:25:00 PM		Validation Level:	V		
Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Copper	7440508	0.453	1	0.3	ug/L	J	J	
Lead	7439921	0.5	2	0.5	ug/L	U	U	

Sample Name	FBQW2231	Matrix Type:	WATER		Result Type:	Primary Result		
Lab Sample Name:	230761016	Sample Date:	6/1/2009 2:05:00 PM		Validation Level:	V		
Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Arsenic	7440382	1.5	5	1.5	ug/L	U	U	
Beryllium	7440417	0.1	0.5	0.1	ug/L	U	U	
Cadmium	7440439	0.11	1	0.11	ug/L	U	U	
Copper	7440508	0.362	1	0.3	ug/L	J	J	
Lead	7439921	0.5	2	0.5	ug/L	U	U	
Selenium	7782492	1	5	1	ug/L	U	U	
Zinc	7440666	2.6	10	2.6	ug/L	U	U	

Sample Name	HZBS0083S001	Matrix Type:	SOIL		Result Type:	Primary Result		
Lab Sample Name:	230761020	Sample Date:	2/25/2009 8:51:00 AM		Validation Level:	V		
Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Copper	7440508	7.06	0.218	0.0436	mg/kg	E	J	E
Lead	7439921	30.5	2.18	0.546	mg/kg			

Sample Name	HZBS0124S001	Matrix Type:	SOIL		Result Type:	Primary Result		
Lab Sample Name:	230761014	Sample Date:	6/1/2009 10:58:00 AM		Validation Level:	V		
Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Copper	7440508	8.91	0.2	0.04	mg/kg	E	J	E
Lead	7439921	12.7	0.4	0.0999	mg/kg			

Analysis Method 7470A

Sample Name	FBQW2231	Matrix Type:	WATER		Result Type:	Primary Result		
Lab Sample Name:	230761016	Sample Date:	6/1/2009 2:05:00 PM		Validation Level:	V		
Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Mercury	7439976	0.067	0.2	0.067	ug/L	U	U	

Analysis Method 8015B

Sample Name	FBQW2231	Matrix Type: WATER			Result Type: Primary Result			
Lab Sample Name:	230761016	Sample Date: 6/1/2009 2:05:00 PM			Validation Level: V			
Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
EFH (>C11 - C14)	EFHD (C12)	94.3	94.3	31.1	ug/L	U	U	
EFH (>C14 - C20)	EFHD (C15)	94.3	94.3	31.1	ug/L	U	U	
EFH (>C20 - C30)	EFHD (C21)	94.3	94.3	31.1	ug/L	U	U	
EFH (C8 - C11)	EFHD (C8-	94.3	94.3	31.1	ug/L	U	U	

Analysis Method 8082

Sample Name	FBQW2231	Matrix Type: WATER			Result Type: Primary Result			
Lab Sample Name:	230761016	Sample Date: 6/1/2009 2:05:00 PM			Validation Level: V			
Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Aroclor-1016	12674112	0.0943	0.0943	0.0314	ug/L	U	U	
Aroclor-1221	11104282	0.0943	0.0943	0.0314	ug/L	U	U	
Aroclor-1232	11141165	0.0943	0.0943	0.0314	ug/L	U	U	
Aroclor-1242	53469219	0.0943	0.0943	0.0314	ug/L	U	U	
Aroclor-1248	12672296	0.0943	0.0943	0.0314	ug/L	U	U	
Aroclor-1254	11097691	0.0943	0.0943	0.0314	ug/L	U	U	
Aroclor-1260	11096825	0.0943	0.0943	0.0314	ug/L	U	U	

Analysis Method 8260B

Sample Name FBQW2231 **Matrix Type:** WATER **Result Type:** Primary Result
Lab Sample Name: 230761016 **Sample Date:** 6/1/2009 2:05:00 PM **Validation Level:** V

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
1,1,1,2-Tetrachloroethane	630206	1	1	0.3	ug/L	U	U	
1,1,1-Trichloroethane	71556	1	1	0.325	ug/L	U	U	
1,1,2,2-Tetrachloroethane	79345	1	1	0.25	ug/L	U	U	
1,1,2-Trichloro-1,2,2-trifluoroethane	76131	5	5	1	ug/L	U	U	
1,1,2-Trichloroethane	79005	1	1	0.25	ug/L	U	U	
1,1-Dichloroethane	75343	1	1	0.3	ug/L	U	U	
1,1-Dichloroethene	75354	1	1	0.3	ug/L	U	U	
1,1-Dichloropropene	563586	1	1	0.25	ug/L	U	U	
1,2,3-Trichlorobenzene	87616	1	1	0.332	ug/L	U	U	
1,2,3-Trichloropropane	96184	1	1	0.3	ug/L	U	U	
1,2,4-Trichlorobenzene	120821	1	1	0.3	ug/L	U	U	
1,2,4-Trimethylbenzene	95636	1	1	0.25	ug/L	U	U	
1,2-Dibromo-3-chloropropane	96128	1	1	0.5	ug/L	U	U	
1,2-Dibromoethane (EDB)	106934	1	1	0.25	ug/L	U	U	
1,2-Dichlorobenzene	95501	1	1	0.25	ug/L	U	U	
1,2-Dichloroethane	107062	1	1	0.25	ug/L	U	U	
1,2-Dichloropropane	78875	1	1	0.25	ug/L	U	U	
1,3,5-Trimethylbenzene	108678	1	1	0.25	ug/L	U	U	
1,3-Dichlorobenzene	541731	1	1	0.25	ug/L	U	U	
1,3-Dichloropropane	142289	1	1	0.25	ug/L	U	U	
1,4-Dichlorobenzene	106467	1	1	0.25	ug/L	U	U	
2,2-Dichloropropane	594207	1	1	0.3	ug/L	U	U	
2-Butanone (MEK)	78933	5	5	1.25	ug/L	U	U	
2-Chloro-1,1,1-trifluoroethane	75887	10	10	3	ug/L	U	U	
2-Chloroethyl vinyl ether	110758	5	5	1.5	ug/L	U	U	
2-Chlorotoluene	95498	1	1	0.25	ug/L	U	U	
2-Hexanone	591786	5	5	1.25	ug/L	U	U	
4-Chlorotoluene	106434	1	1	0.25	ug/L	U	U	
4-Methyl-2-pentanone (MIBK)	108101	5	5	1.25	ug/L	U	U	
Acetone	67641	5	5	1.5	ug/L	U	U	
Benzene	71432	1	1	0.3	ug/L	U	U	
Bromobenzene	108861	1	1	0.25	ug/L	U	U	
Bromochloromethane	74975	1	1	0.36	ug/L	U	U	
Bromodichloromethane	75274	1	1	0.25	ug/L	U	U	
Bromoform	75252	1	1	0.25	ug/L	U	U	

Analysis Method **8260B**

Bromomethane	74839	1	1	0.5 ug/L	U	U
Carbon tetrachloride	56235	1	1	0.26 ug/L	U	U
Chlorobenzene	108907	1	1	0.25 ug/L	U	U
Chloroethane	75003	1	1	0.3 ug/L	U	U
Chloroform	67663	0.373	1	0.25 ug/L	J	J
Chloromethane	74873	1	1	0.3 ug/L	U	U
Chlorotrifluoroethylene	79389	10	10	3 ug/L	U	U
cis-1,2-Dichloroethene	156592	1	1	0.3 ug/L	U	U
cis-1,3-Dichloropropene	10061015	1	1	0.25 ug/L	U	U
Dibromochloromethane	124481	1	1	0.26 ug/L	U	U
Dibromomethane	74953	1	1	0.3 ug/L	U	U
Dichlorodifluoromethane	75718	1	1	0.5 ug/L	U	U
Ethylbenzene	100414	1	1	0.25 ug/L	U	U
Hexachlorobutadiene	87683	1	1	0.44 ug/L	U	U
Isopropylbenzene	98828	1	1	0.25 ug/L	U	U
m,p-Xylenes	179601231	2	2	0.43 ug/L	U	U
Methylene chloride	75092	5	5	2 ug/L	U	U
Methyl-tert-butyl Ether (MTBE)	1634044	1	1	0.25 ug/L	U	U
n-Butylbenzene	104518	1	1	0.25 ug/L	U	U
n-Propylbenzene	103651	1	1	0.25 ug/L	U	U
o-Xylene	95476	1	1	0.25 ug/L	U	U
p-Isopropyltoluene	99876	1	1	0.25 ug/L	U	U
sec-Butylbenzene	135988	1	1	0.25 ug/L	U	U
Styrene	100425	1	1	0.25 ug/L	U	U
tert-Butylbenzene	98066	1	1	0.25 ug/L	U	U
Tetrachloroethene	127184	1	1	0.45 ug/L	U	U
Toluene	108883	1	1	0.25 ug/L	U	U
trans-1,2-Dichloroethene	156605	1	1	0.3 ug/L	U	U
trans-1,3-Dichloropropene	10061026	1	1	0.25 ug/L	U	U
Trichloroethene	79016	1	1	0.25 ug/L	U	U
Trichlorofluoromethane	75694	1	1	0.31 ug/L	U	U
Vinyl chloride	75014	1	1	0.5 ug/L	U	U

Analysis Method 8270C SIM

Sample Name FBQW2231 **Matrix Type:** WATER **Result Type:** Primary Result
Lab Sample Name: 230761016 **Sample Date:** 6/1/2009 2:05:00 PM **Validation Level:** V

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
1-Methylnaphthalene	90120	0.472	0.472	0.142	ug/L	U	U	
2-Methylnaphthalene	91576	0.472	0.472	0.142	ug/L	U	U	
Acenaphthene	83329	0.472	0.472	0.146	ug/L	U	U	
Acenaphthylene	208968	0.472	0.472	0.0943	ug/L	U	U	
Anthracene	120127	0.472	0.472	0.0943	ug/L	U	U	
Benzo(a)anthracene	56553	0.472	0.472	0.0943	ug/L	U	U	
Benzo(a)pyrene	50328	0.472	0.472	0.0943	ug/L	U	U	
Benzo(b)fluoranthene	205992	0.472	0.472	0.0943	ug/L	U	U	
Benzo(ghi)perylene	191242	0.472	0.472	0.0943	ug/L	U	U	
Benzo(k)fluoranthene	207089	0.472	0.472	0.0943	ug/L	U	U	
bis(2-Ethylhexyl)phthalate	117817	0.472	0.472	0.142	ug/L	BJ	U	B, result changed from 0.287
Butyl benzyl phthalate	85687	0.472	0.472	0.142	ug/L	U	U	
Chrysene	218019	0.472	0.472	0.0943	ug/L	U	U	
Dibenzo(a,h)anthracene	53703	0.472	0.472	0.0943	ug/L	U	U	
Diethylphthalate	84662	0.472	0.472	0.142	ug/L	U	U	
Dimethylphthalate	131113	0.472	0.472	0.142	ug/L	U	U	
Di-n-butylphthalate	84742	0.472	0.472	0.142	ug/L	U	U	
Di-n-octyl-phthalate	117840	0.472	0.472	0.142	ug/L	U	U	
Fluoranthene	206440	0.472	0.472	0.0943	ug/L	U	U	
Fluorene	86737	0.472	0.472	0.0943	ug/L	U	U	
Indeno(1,2,3-cd)pyrene	193395	0.472	0.472	0.0943	ug/L	U	U	
Naphthalene	91203	0.472	0.472	0.142	ug/L	U	U	
n-Nitrosodimethylamine	62759	0.472	0.472	0.0943	ug/L	U	U	
Phenanthrene	85018	0.472	0.472	0.0943	ug/L	U	U	
Pyrene	129000	0.472	0.472	0.142	ug/L	U	U	

Chain of Custody and Supporting Documentation

23095271

COC #:

CHAIN OF CUSTODY RECORD

Customer Information		Project Information				Boeing PM:		
Site:	SSFL	Client Name:	Boeing	Collector:	B. Martasin			
Company:	MWH	Sampling Event:	ISRA Sampling, June 2009	Contact #:				
Report to:	Sarah Von Raesfeld	Project Number:	1891614.054521					
Address:	2121 N. California Blvd Suite 600 Walnut Creek CA 94596	Project Manager:	Alex Fischl (925) 627-4627 Brian Martasin (323) 304-4969 GEL Laboratories, LLC					
Email:	sarah.vonraesfeld@mwhglobal.c sean.leffler@mwhglobal.com	Lab Contact:	Jackie Trudell 2040 Savage Road Charleston, SC 29407 (843) 769-7388					
Lab Address:		Lab Phone:						
Sample Name	Matrix	Date	Time	No. of Containers	Requested Analyses			Instructions/TAT
B1BS0060D001	Soil	6/3/2009	0:00	4	Metals 6020 Water Arsenic			Legend: Numerical values for analyses equale to turn around time in days H - Hold EH - Extract & Hold
B1TB2008T001	Water	6/3/2009	7:00	3	Metals 6020 Soil Zinc	10	10	
B1BS0060S001	Soil	6/3/2009	7:43	4	Metals 6020 Soil Selenium	10	10	
B1BS0060S002	Soil	6/3/2009	7:50	4	Metals 6020 Soil Lead	10	10	
B1BS0062S001	Soil	6/3/2009	8:30	1	Metals 6020 Soil Copper	10	10	
B1BS0062S002	Soil	6/3/2009	8:40	1	Metals 6020 Soil Cadmium	10	10	
B1BS0063S001	Soil	6/3/2009	8:55	1	Metals 6020 Soil Arsenic	10	10	
B1BS0061S001	Soil	6/3/2009	9:20	1	Metals 6020 Se Water	10	10	
B1BS0078S001	Soil	6/3/2009	9:35	4	Metals 6020 Cu Water	10	10	
B1BS0078S002	Soil	6/3/2009	9:40	4	Metals 6020 Cd Water	10	10	
					Metals 6020 Be Water	10	10	
					Metals 6020 Be Soil	10	10	
					Metals 6010B Water Aluminum	10	10	
					Metals 6010B Soil Aluminum	10	10	
					D2216 Moisture Soil	10	10	
					Metals 6020 Zn Water	10	10	
					Metals 7470A Water Mercury	10	10	
					Metals 7471A Soil Mercury	10	10	
					PCB by SW8082 - Water	10	10	
					PCB by SW8082 - Soil	10	10	
					SVOCs by SW8270C SIM - Water	10	10	
					SVOCs by SW8270C SIM - Soil	10	10	
					TPH by SW8015BM - Water	10	10	
					TPH by SW8015BM - Soil	10	10	
					VOC by SW8260B - Soil	10	10	
					VOC by SW8260B - Water	10	10	

1. Relinquished by:	Date:	2. Received by:	Date:	3. Relinquished by:	Date:	4. Received by:	Date:
<i>Ben R. O.</i>	6-3-09	<i>R.M. Skilling</i>	6/4/09				
Company: MWH	Time: 1515	Company: ETE	Time: 905	Company:	Time:	Company:	Time:

Comments: Geotracker EDF Data Validation Package Level IV

23096271

CHAIN OF CUSTODY RECORD

COC #: MWHBHM20090603_00
Page: 2 of 3

Customer Information				Project Information				Requested Analyses				Instructions/TAT	
Site:	Client Name:	Boeing	Collector:	Boeing PM:	Project Name:	Boeing	Contact #:	Boeing PM:	Requested Analyses	Instructions/TAT	Comments		
SSFL	Sarah Von Raesfeld	2121 N. California Blvd	Sarah Von Raesfeld@mwhglobal.com	Sarah Von Raesfeld	ISRA Sampling, June 2008	1891614.054521	Alex Fischl	B. Martasin	VOC by SW8260B - Water				
MWH	Suite 600	Walnut Creek	sean.leffler@mwhglobal.com	Boeing	(925) 627-4627	Brian Martasin	Jackie Trudell		VOC by SW8260B - Soil				
	CA	94596			(323) 304-4869	GEL Laboratories, LLC	2040 Savage Road		TPH by SW8015BM - Water				
							Charleston, SC 29407		TPH by SW8015BM - Soil				
							(843) 769-7388		SVOCs by SW8270C SIM - Water				
									SVOCs by SW8270C SIM - Soil				
									PCB by SW8082 - Water				
									PCB by SW8082 - Soil				
									Metals 7471A Soil Mercury				
									Metals 7470A Water Mercury				
									Metals 6020 Zn Water				
									Metals 6020 Water Lead				
									Metals 6020 Water Arsenic				
									Metals 6020 Soil Zinc				
									Metals 6020 Soil Selenium				
									Metals 6020 Soil Lead				
									Metals 6020 Soil Copper				
									Metals 6020 Soil Cadmium				
									Metals 6020 Soil Arsenic				
									Metals 6020 Se Water				
									Metals 6020 Cu Water				
									Metals 6020 Cd Water				
									Metals 6020 Be Water				
									Metals 6020 Bz Soil				
									Metals 6010B Water Aluminum				
									Metals 6010B Soil Aluminum				
									D2216 Moisture Soil				

1. Relinquished by:		2. Received by:		3. Relinquished by:		4. Received by:	
Date:	Time:	Date:	Time:	Date:	Time:	Date:	Time:
<i>B. N.</i>	6-3-09	<i>R.M. Stelling</i>	6/4/09				
Company: MWH	1515	Company: GEL	945	Company:		Company:	

Geotracker EDF Data Validation Package Level IV

2509521.

COC #:

CHAIN OF CUSTODY RECORD



Customer Information		Project Information		Project Information	
Site:	SSFL	Client Name:	Boeing	Collector:	B. Martasin
Company:	MWH	Sampling Event:	ISRA Sampling, June 2009	Contact #:	
Report to:	Sarah Von Raestfeld	Project Number:	1891614.054521	Requested Analyses	
Address:	2121 N. California Blvd Suite 600 Walnut Creek CA 94596	Project Manager:	Alex Fisch (925) 627-4627 Brian Martasin (323) 304-4969 GEL Laboratories, LLC		
Email:	sarah.vonraestfeld@mwhglobal.c sean.levier@mwhglobal.com	Lab Contact:	Jackie Trudell 2040 Savage Road Charleston, SC 29407		
		Lab Address:			
		Lab Phone:	(843) 769-7388		
Sample Name		Matrix	Date	Time	No. of Containers
ILBS02495002	Soil		6/3/2009	13:05	1
EBQW2217	Water		6/3/2009	13:30	10

Requested Analyses	Instructions/TAT	Comments
VOC by SW8260B - Water	Legend: Numerical values for analyses equiate to turn around time in days H - Hold EH - Extract & Hold	
VOC by SW8260B - Soil		
TPH by SW8015BM - Water		
TPH by SW8015BM - Soil		
SVOCs by SW8270C SIM - Water		
SVOCs by SW8270C SIM - Soil		
PCB by SW8082 - Water		
PCB by SW8082 - Soil		
Metals 7471A Soil Mercury		
Metals 7470A Water Mercury		
Metals 6020 Zn Water		
Metals 6020 Water Lead		
Metals 6020 Water Arsenic		
Metals 6020 Soil Zinc		
Metals 6020 Soil Selenium		
Metals 6020 Soil Lead		
Metals 6020 Soil Copper		
Metals 6020 Soil Cadmium		
Metals 6020 Soil Arsenic		
Metals 6020 Se Water		
Metals 6020 Cu Water		
Metals 6020 Cd Water		
Metals 6020 Be Water		
Metals 6020 Be Soil		
Metals 6010B Water Aluminum		
Metals 6010B Soil Aluminum		
D2216 Moisture Soil		

1. Relinquished by:	Date:	6-3-09	2. Received by:	Date:	6/4/09	3. Relinquished by:	Date:		4. Received by:	Date:
	Time:	1515	Company:	Time:	945	Company:	Time:		Company:	Time:
Company:			Gel							
MWH										
Comments:	<input type="checkbox"/> Geotracker EDF <input checked="" type="checkbox"/> Data Validation Package <input type="checkbox"/> Level IV									

Client: <u>SSFI</u>		SDG/ARCOC/Work Order: <u>2309527</u>	
Received By: <u>RMS</u>		Date Received: <u>6/4/09</u>	
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?		<input checked="" type="checkbox"/>	Maximum Counts Observed*:
Classified Radioactive II or III by RSO?		<input checked="" type="checkbox"/>	<u>40cpm</u>
COC/Samples marked containing PCBs?		<input checked="" type="checkbox"/>	
Shipped as a DOT Hazardous?		<input checked="" type="checkbox"/>	Hazard Class Shipped: UN#:
Samples identified as Foreign Soil?		<input checked="" type="checkbox"/>	

Sample Receipt Criteria		Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	<input checked="" type="checkbox"/>			Circle Applicable: seals broken damaged container leaking container other (describe)
2	Samples requiring cold preservation within 0 ≤ 6 deg. C?	<input checked="" type="checkbox"/>			Preservation Method: <u>ice bags</u> blue ice dry ice none other (describe) <u>6.4°</u>
3	Chain of custody documents included with shipment?	<input checked="" type="checkbox"/>			
4	Sample containers intact and sealed?	<input checked="" type="checkbox"/>			Circle Applicable: seals broken damaged container leaking container other (describe)
5	Samples requiring chemical preservation at proper pH?	<input checked="" type="checkbox"/>			Sample ID's, containers affected and observed pH: If Preservation added, Lot#:
6	VOA vials free of headspace (defined as < 6mm bubble)?	<input checked="" type="checkbox"/>			Sample ID's and containers affected:
7	Are Encore containers present?			<input checked="" type="checkbox"/>	(If yes, immediately deliver to Volatiles laboratory)
8	Samples received within holding time?	<input checked="" type="checkbox"/>			Id's and tests affected:
9	Sample ID's on COC match ID's on bottles?	<input checked="" type="checkbox"/>			Sample ID's and containers affected:
10	Date & time on COC match date & time on bottles?	<input checked="" type="checkbox"/>			Sample ID's affected:
11	Number of containers received match number indicated on COC?	<input checked="" type="checkbox"/>			Sample ID's affected:
12	COC form is properly signed in relinquished/received sections?	<input checked="" type="checkbox"/>			

Comments:
 Fx: 9457 3161 5453 @ 6°
 " " 5394 @ 4°

PM (or PMA) review: Initials JT Date 6/4/09

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: 06/08/09

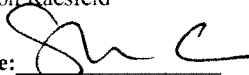
To: Jackie Trudell

Phone: 843-769-7388

Laboratory GEL Laboratories, LLC

E-mail:
jacqueline.trudell@gel.com

From: Sarah Von Raesfeld

Requestor signature: 

Subject: Chain-of-Custody Form Analytical Request Change No. of Pages: 4

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
MWHBM20090603_00	ILBS0249S001	06/03/09		Place all analyses on hold/extract & hold
MWHBM20090603_00	ILBS0249S002	06/03/09		Run Cd, Cu, Pb, Zn, Hg, SVOC SIM, and % moisture.

The reason for these changes:

Incorrectly marked on COC form _____

Lack of sample volume _____

Change in analytical request _____ X _____

Other: _____

Thank you

23095271

MWHBM20090603_00
Page: 1 of 3

COC #:

CHAIN OF CUSTODY RECORD

Customer Information				Project Information				Boeing PM:				Requested Analyses				Instructions/TAT			
Site:	SSFL	Client Name:	Boeing	Collector:	B. Martasin														
Company:	MWH	Sampling Event:	ISRA Sampling, June 2009	Contact #:															
Report to:	Sarah Von Raasfeld	Project Number:	1891614.054521																
Address:	2121 N. California Blvd Suite 600 Walnut Creek CA 94596	Project Manager:	Alex Fischl (925) 627-4627 Brian Martasin (323) 304-4869 GEL Laboratories, LLC																
Email:	sarah.vonraasfeld@mwhglobal.com sean.jeffrey@mwhglobal.com	Lab Contact:	Jackie Trudell 2040 Seavage Road Charleston, SC 29407																
		Lab Address:																	
		Lab Phone:	(843) 769-7388																
Sample Name	Matrix	Date	Time	No. of Containers	Matrix	Date	Time	No. of Containers	Matrix	Date	Time	No. of Containers	Matrix	Date	Time	No. of Containers			
B1BS0080D001	Soil	6/3/2009	9:00	4	Soil	6/3/2009	9:00	4	Soil	6/3/2009	9:00	4	Soil	6/3/2009	9:00	4			
B1TB2008T001	Water	6/3/2009	7:00	3	Water	6/3/2009	7:00	3	Water	6/3/2009	7:00	3	Water	6/3/2009	7:00	3			
B1BS0080S001	Soil	6/3/2009	7:43	4	Soil	6/3/2009	7:50	4	Soil	6/3/2009	8:30	1	Soil	6/3/2009	8:40	1			
B1BS0080S002	Soil	6/3/2009	8:30	1	Soil	6/3/2009	8:40	1	Soil	6/3/2009	8:55	1	Soil	6/3/2009	9:20	1			
B1BS0082S001	Soil	6/3/2009	8:40	1	Soil	6/3/2009	9:20	1	Soil	6/3/2009	9:35	4	Soil	6/3/2009	9:40	4			
B1BS0082S002	Soil	6/3/2009	8:55	1	Soil	6/3/2009	9:40	1	Soil	6/3/2009	9:40	1	Soil	6/3/2009	9:40	1			
B1BS0083S001	Soil	6/3/2009	9:20	1	Soil	6/3/2009	9:35	4	Soil	6/3/2009	9:40	4	Soil	6/3/2009	9:40	4			
B1BS0081S001	Soil	6/3/2009	9:20	1	Soil	6/3/2009	9:35	4	Soil	6/3/2009	9:40	4	Soil	6/3/2009	9:40	4			
B1BS0078S001	Soil	6/3/2009	9:35	4	Soil	6/3/2009	9:40	4	Soil	6/3/2009	9:40	4	Soil	6/3/2009	9:40	4			
B1BS0078S002	Soil	6/3/2009	9:40	4	Soil	6/3/2009	9:40	4	Soil	6/3/2009	9:40	4	Soil	6/3/2009	9:40	4			
				D2216 Moisture Soil															
				Metals 6010B Water Aluminum															
				Metals 6010B Soil Aluminum															
				Metals 6020 Be Soil															
				Metals 6020 Be Water															
				Metals 6020 Cd Water															
				Metals 6020 Cu Water															
				Metals 6020 Se Water															
				Metals 6020 Soil Arsenic															
				Metals 6020 Soil Cadmium															
				Metals 6020 Soil Copper															
				Metals 6020 Soil Lead															
				Metals 6020 Soil Selenium															
				Metals 6020 Soil Zinc															
				Metals 6020 Water Arsenic															
				Metals 6020 Water Lead															
				Metals 6020 Zn Water															
				Metals 7470A Water Mercury															
				Metals 7471A Soil Mercury															
				PCB by SW6082 - Soil															
				PCB by SW6082 - Water															
				SVOCs by SW8270C SIM - Soil															
				SVOCs by SW8270C SIM - Water															
				TPH by SW80158M - Soil															
				TPH by SW80158M - Water															
				VOC by SW8260B - Soil															
				VOC by SW8260B - Water															

1. Relinquished by:		2. Received by:		3. Relinquished by:		4. Received by:	
Date:	6-3-09	Date:	6/4/09	Date:		Date:	
Time:	1:15	Time:	9:05	Time:		Time:	
Company:	MWH	Company:	Boeing	Company:		Company:	

Geotracker EDF Data Validation Package Level IV

2309521.

CHAIN OF CUSTODY RECORD



MWFHM20090603_00
Page: 2 of 3

COC #:

Customer Information				Project Information				
Site:	SSFL	Client Name:	Boeing	Collector:	B. Marasin	Boeing PM:		
Company:	MWH	Sampling Event:	ISRA Sampling, June 2009	Contact #:				
Report to:	Sarah Von Raesfeld	Project Number:	1891614.054521	Requested Analyses:	VOC by SW8260B - Water VOC by SW8260B - Soil TPH by SW8015BM - Water TPH by SW8015BM - Soil SVOCs by SW8270C SIM - Water SVOCs by SW8270C SIM - Soil PCB by SW8082 - Water PCB by SW8082 - Soil Metals 7471A Soil Mercury Metals 7470A Water Mercury Metals 6020 Zn Water Metals 6020 Water Lead Metals 6020 Water Arsenic Metals 6020 Soil Zinc Metals 6020 Soil Selenium Metals 6020 Soil Lead Metals 6020 Soil Copper Metals 6020 Soil Cadmium Metals 6020 Soil Arsenic Metals 6020 Se Water Metals 6020 Cu Water Metals 6020 Cd Water Metals 6020 Be Water Metals 6020 Be Soil Metals 6010B Water Aluminum Metals 6010B Soil Aluminum D2216 Moisture Soil			
Address:	2121 N. California Blvd Suite 800 Walnut Creek CA 94596	Project Manager:	Alex Fischl PM Phone #: (925) 627-4627 Field Contact: Brian Marasin Field Contact #: (323) 304-4869 Lab Name: GEL Laboratories, LLC Lab Contact: Jackie Trudell Lab Address: 2040 Savage Road Charleston, SC 29407 Lab Phone: (843) 769-7388	Instructions/TAT:	Legend: Numerical values for analyses equate to turn around time in days H - Hold EH - Extract & Hold			
Email:	sarah.vonraesfeld@mwhglobal.com sean.jeffers@mwhglobal.com			Comments:				
Sample Name	Matrix	Date	Time	No. of Containers	1. Relinquished by:	2. Received by:	3. Relinquished by:	4. Received by:
B1BS0077S001	Soil	6/3/2009	10:00	4		R.M. Stelling		
B1BS0077S002	Soil	6/3/2009	10:15	4				
ILBS0253S001	Soil	6/3/2009	10:55	1				
ILBS0253S002	Soil	6/3/2009	11:00	1				
ILBS0252S001	Soil	6/3/2009	11:15	1				
ILBS0252S002	Soil	6/3/2009	11:20	1				
ILBS0251S001	Soil	6/3/2009	12:20	1				
ILBS0251S002	Soil	6/3/2009	12:30	1				
ILGS0250S001	Soil	6/3/2009	12:45	1				
ILBS0249S001	Soil	6/3/2009	13:00	1				
					1. Relinquished by:	2. Received by:	3. Relinquished by:	4. Received by:
						R.M. Stelling		
					Date:	Date:	Date:	Date:
					6-3-09	6/4/09		
					Time:	Time:	Time:	Time:
					1:55	9:45		
					Company:	Company:	Company:	Company:
					MWH	GEL		
					Comments:	Geotracker EDF <input type="checkbox"/> Data Validation Package <input checked="" type="checkbox"/> Level IV		

① SWR 06/08/09

LABORATORY TASK ORDER (LTO) FORM

INSTRUCTIONS: To be completed by Environmental Contractor & Emailed to Laboratory Project Manager, CH2M HILL (boeingdms@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:

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

SAMPLE CONTAINER ORDER FORM

Date Required: 02/19/09

Requested Analyses: (Specify # of Samples)

Date Sample Pickup: NA

Ship Containers To:
 Project Site (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 (select all applicable)
 Water (select all applicable)
 Vapor (select all applicable)

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

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

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:

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)

Project Site (enter "X")
 Consultant Office (enter "X")
 Other Location (specify in comments) (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
Address: 2121 N. California Blvd. Ste. 600
Walnut Creek, CA 94596

Contract Laboratory: GEL
Address: 2040 Savage Rd.
Charleston, SC 29407

Contact Name: Sarah Von Raesfeld
Phone Number: 925-627-4654
Fax Number: 925-627-4501
E-mail Address: Sarah.VonRaesfeld@mwhglobal.com

Lab Contact Name: Cheryl Jones
Phone Number: 843-769-7388
Fax Number: 843-766-1178
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)	--	--	--

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QC Data	585
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Quality Control Data	746
Miscellaneous Data	768
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Sample Data	794
Standards Data.....	800
Quality Control Data	887
Miscellaneous Data	915

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Case Narrative

**Case Narrative
for
Boeing - SSFL (MWH)
Work Order: 230952
SDG: 230952**

June 17, 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 June 04, 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:

<u>Laboratory Identification</u>	<u>Sample Description</u>
230952001	B1BS0080D001
230952002	B1TB2008T001
230952003	B1BS0080S001
230952004	B1BS0080S002
230952005	B1BS0082S001
230952006	B1BS0082S002
230952007	B1BS0083S001
230952008	B1BS0081S001
230952009	B1BS0078S001
230952010	B1BS0078S002
230952011	B1BS0077S001
230952012	B1BS0077S002
230952013	ILBS0253S001
230952014	ILBS0253S002
230952015	ILBS0252S001
230952016	ILBS0252S002
230952017	ILBS0251S001
230952018	ILBS0251S002
230952019	ILBS0250S001
230952020	ILBS0249S001
230952021	ILBS0249S002
230952022	EBQW2217

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.

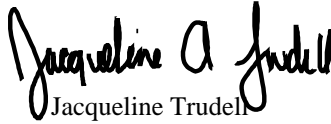
Case Narrative

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: FID Flame Ionization Detector, GC Semivolatile PCB, GC/MS Semivolatile, GC/MS Volatile, Metals and Percent Moisture.

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.



Handwritten signature of Jacqueline A. Trudel in black ink.

Jacqueline Trudel

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 17 June 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: 230952

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: 230952
 Project Manager: Dixie Hambrick
 Matrix: water/soil
 QC Level: V
 No. of Samples: 13
 No. of Reanalyses/Dilutions: 0
 Laboratory: GEL

Table 1. Sample Identification

Sample Name	Lab Sample Name	Sub-Lab Sample Name	Matrix	Collection	Method
B1BS0080D001	230952001	N/A	Soil	6/3/2009	6010B, 6020, 8015B, 8260B
B1TB2008T001	230952002	N/A	Water	6/3/2009 7:00:00 AM	8260B
B1BS0080S001	230952003	N/A	Soil	6/3/2009 7:43:00 AM	6010B, 6020, 8015B, 8260B
B1BS0082S001	230952005	N/A	Soil	6/3/2009 8:30:00 AM	6020
B1BS0081S001	230952008	N/A	Soil	6/3/2009 9:20:00 AM	6010B, 6020
B1BS0078S001	230952009	N/A	Soil	6/3/2009 9:35:00 AM	6010B, 6020, 8015B, 8260B
B1BS0077S001	230952011	N/A	Soil	6/3/2009 10:00:00 AM	6020, 8015B, 8260B
ILBS0253S001	230952013	N/A	Soil	6/3/2009 10:55:00 AM	6020, 7471A, 8270C
ILBS0252S001	230952015	N/A	Soil	6/3/2009 11:15:00 AM	6020, 7471A
ILBS0251S001	230952017	N/A	Soil	6/3/2009 12:20:00 PM	6020, 7471A, 8270C
ILBS0250S001	230952019	N/A	Soil	6/3/2009 12:45:00 PM	6020, 7471A, 8270C
ILBS0249S002	230952021	N/A	Soil	6/3/2009 1:05:00 PM	6020, 7471A, 8270C
EBQW2217	230952022	N/A	Water	6/3/2009 1:30:00 PM	6010B, 6020, 7470A, 8015B, 8082, 8260B, 8270C

II. Sample Management

No anomalies were observed regarding sample management. The samples 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 METHODS 6010B, 6020, 7470A/7471A—Metals and Mercury

Reviewed By: P. Meeks

Date Reviewed: July 21, 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 Methods 6010B, 6020, 7470A/7471A*, and the *National Functional Guidelines for Inorganic Data Review (7/02)*.

- Holding Times: Analytical holding times, six months for ICP and ICP-MS metals and 28 days for mercury, were met.
- Tuning: Review is not applicable at a Level V validation.
- Calibration: Review is not applicable at a Level V validation.
- Blanks: Mercury was reported in the soil method blank at -0.00387 mg/kg; therefore, mercury in all soil samples except ILBS0215S001 and ILBS0249S002 was qualified as estimated, "J," for detects and, "UJ," for nondetects. Method blanks and CCBs had no other applicable detects.
- Interference Check Samples: Review is not applicable at a Level V validation.
- Blank Spikes and Laboratory Control Samples: Recoveries were within laboratory-established QC limits.
- Laboratory Duplicates: Laboratory duplicate analyses were performed on B1BS0080S001 and ILBS0249S002 for all analytes, and ILBS0253S001 for mercury only. For ILBS0249S002, the cadmium RPD exceeded the control limit; therefore, cadmium detected in all samples except ILBS0253S001 was qualified as estimated, "J." All remaining RPDs were within the laboratory established control limits.
- Matrix Spike/Matrix Spike Duplicate: MS/MSD analyses were performed on B1BS0080S001 and ILBS0249S002 for all analytes and ILBS0253S001 for mercury only. For ILBS0249S002, both copper recoveries and the lead and the mercury MS recoveries were above the control limit; therefore, copper and lead in all samples except B1BS0080S001 and ILBS0253S001 were qualified as estimated, "J." All remaining recoveries and RPDs were within laboratory-established QC limits.
- Serial Dilution: Serial dilution analyses were performed on B1BS0082S001, B1BS0080S001 and EBQW2217 for all analytes and on ILBS0249S002 for mercury only. For B1BS0080S001, the copper %D exceeded the control limit; therefore, copper in all soil samples was qualified as estimated, "J." For B1BS0082S001, the copper and zinc %Ds

exceeded the control limit; therefore, copper in all soil samples and zinc in all soil samples except B1BS0080S001 were qualified as estimated, "J." For ILBS0249S002, the mercury %D exceeded the control limit; therefore, mercury in all soil samples except ILBS0215S001 and ILBS0249S002 was qualified as estimated, "J," for detects and, "UJ," for nondetects. All remaining %Ds were within the laboratory established control limits.

- 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. Zinc in ILBS0251S001 was analyzed at a 50x dilution, zinc in the remaining soil samples was analyzed at a 10x dilution, and lead in ILBS0251S001 was analyzed at a 10x dilution in order to report the analytes within the linear range of the calibration. All remaining soil ICP-MS analytes were reported from the laboratory's standard 2x dilution for soils. 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: FBQW2231 (230761) was the field blank and EBQW2217 was the equipment rinsate associated with the samples in this SDG. There were no applicable detects in the field QC samples.
 - Field Duplicates: B1BS0080S001 and B1BS0080D001 were identified as field duplicate samples. All detects were in common and all RPDs were less than 100%.

B. EPA METHOD 8270C—Polynuclear Aromatic Hydrocarbons (PAHs)

Reviewed By: K. Shadowlight

Date Reviewed: July 21, 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 Semivolatile Organics (DVP-3, Rev. 0)*, *EPA Method 8270C*, and the *National Functional Guidelines for Organic Data Review (10/99)*.

- Holding Times: Extraction and analytical holding times were met. The water sample was extracted within seven days of collection and the soil samples were extracted within 14 days of collection. All samples were analyzed within 40 days of extraction.
- GC/MS Tuning: Review is not applicable at a Level V validation.

- Calibration: Review is not applicable at a Level V validation.
- Blanks: The method blanks had no target compound detects above the MDL.
- Blank Spikes and Laboratory Control Samples: Recoveries and RPDs for the LCS/ LCSD pair were within laboratory-established QC limits.
- Surrogate Recovery: Recoveries were within laboratory-established QC limits.
- Matrix Spike/Matrix Spike Duplicate: MS/MSD analyses were performed on sample ILBS0253S001 from this SDG. Recoveries and RPDs were within 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 FBQW2231 (SDG 230761) was the field blank and EBQW2217 was the equipment rinsate samples. Bis(2-ethylhexyl)phthalate was reported in the equipment rinsate at 0.0182 µg/L; therefore, the detects for bis(2-ethylhexyl)phthalate in samples ILBS0253S001 and ILBS0250S001 were qualified as nondetected, "U," at the levels of contamination. There were no other detects in the field QC samples.
 - Field Duplicates: There were no field duplicate samples identified for this SDG.
- Internal Standards Performance: Review is not applicable at a Level V validation.
- Compound Identification: Review is not applicable at a Level V validation. The laboratory analyzed for PAH compounds and added phthalates by low-level Method 8270C.
- Compound Quantification and Reported Detection Limits: Review is not applicable at a Level V validation. Any result reported between the MDL and the reporting limit was qualified as estimated, "J." Reported nondetects are valid to the reporting limit.
- Tentatively Identified Compounds: TICs were not reported by the laboratory for this SDG.
- System performance: System performance is not evaluated at a Level V validation.

C. EPA METHOD 8082—PCBs

Reviewed By: K. Shadowlight

Date Reviewed: July 21, 2009

The sample listed in Table 1 for this analysis was validated based on the guidelines outlined in the *MEC^x Data Validation Procedure for Organochlorine Pesticides/PCBs by GC (DVP-4, Rev. 0)*, *EPA Method 8082*, and the *National Functional Guidelines for Organic Data Review (10/99)*.

- Holding Times: Extraction and analytical holding times were met. The water sample was extracted within seven days of collection and analyzed within 40 days of extraction.
- Calibration: Review is not applicable at a Level V validation.
- Blanks: The method blank had no target compound detects above the MDL.
- Blank Spikes and Laboratory Control Samples: Recoveries and RPDs were within laboratory-established QC limits.
- Surrogate Recovery: Recoveries were within laboratory-established QC limits.
- Matrix Spike/Matrix Spike Duplicate: MS/MSD analyses were not performed on a sample from this SDG. Evaluation of method accuracy and precision was based on the blank spike/blank spike duplicate results.
- 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: FBQW2231 (230761) was the field blank and EBQW2217 was identified as an equipment rinsate and as such was not evaluated by other field QC. There were no detects above the MDL in field QC samples.
 - Field Duplicates: There were no field duplicate samples identified for this SDG.
- Compound Identification: Review is not applicable at a Level V validation. The laboratory analyzed for Aroclors by Method 8082.
- Compound Quantification and Reported Detection Limits: Review is not applicable at a Level V validation. Any result reported between the MDL and the reporting limit was qualified as estimated, "J." Reported nondetects are valid to the reporting limit.

D. EPA METHOD 8015B—Extractable Total Fuel Hydrocarbons (EFHs)

Reviewed By: K. Shadowlight

Date Reviewed: July 21, 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 Total Fuel Hydrocarbons (DVP-8, Rev. 0)*, *EPA Method 8015B*, and the *National Functional Guidelines for Organic Data Review (10/99)*.

- Holding Times: Extraction and analytical holding times were met. The water sample was extracted within seven days of collection and the soil samples were extracted within 14 days of collection. All samples were analyzed within 40 days of extraction.
- Calibration: Review is not applicable at a Level V validation.
- Blanks: EFH (C8- C11) was detected at 1.20 mg/Kg in the soil method blank; therefore, the detect for EFH (C8-C11) in B1BS0080S001 was qualified as nondetected, “U,” at the reporting limit. There were no other detects above the MDL in the method blanks.
- Blank Spikes and Laboratory Control Samples: Recoveries and the RPD for the LCS/LCSD pair were within laboratory-established QC limits.
- Surrogate Recovery: Recoveries were within laboratory-established QC limits.
- Matrix Spike/Matrix Spike Duplicate: MS/MSD analyses were not performed on a sample from this SDG. Evaluation of method accuracy was based on the blank spike results.
- 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 FBQW2231 (230761) was the field blank and EBQW2217 was the equipment rinsate sample identified for this SDG. There were no detects above the MDL in the field QC samples.
 - Field Duplicates: B1BS0080S001 and B1BS0080D001 were identified as field duplicate samples. There was a common detect for C21-C30 with an RPD less than 100%. There were no other reportable detects above the MDL in the field duplicate samples (see Method Blank section).
- Compound Identification: Review is not applicable at a Level V validation. Four EFH hydrocarbon ranges were reported: C8-C11, C12-C14, C15-C20, and C21-C30.

- Compound Quantification and Reported Detection Limits: Review is not applicable at a Level V validation. Any result reported between the MDL and the reporting limit was qualified as estimated, "J." Reported nondetects are valid to the reporting limit.

E. EPA METHOD 8260B—Volatile Organic Compounds (VOCs)

Reviewed By: K. Shadowlight

Date Reviewed: July 21, 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 Volatile Organics (DVP-2, Rev. 0)*, *EPA Method 8260B*, and the *National Functional Guidelines for Organic Data Review (10/99)*.

- Holding Times: Analytical holding times were met. The unpreserved water samples were analyzed within seven days of collection and the soil samples were analyzed within 14 days of collection.
- GC/MS Tuning: 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 MDL.
- Blank Spikes and Laboratory Control Samples: Recoveries were within laboratory-established QC limits.
- Surrogate Recovery: Recoveries were within laboratory-established QC limits.
- Matrix Spike/Matrix Spike Duplicate: MS/MSD analyses were not performed on a sample from this SDG. Evaluation of method accuracy was based on the blank spike results.
- 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:
 - Trip Blanks: Sample B1TB2008T001 was the trip blank identified for this SDG. There were no detects above the MDL in the trip blank.
 - Field Blanks and Equipment Rinsates: Sample FBQW2231 (230761) was the field blank and EBQW2217 was the equipment rinsate sample identified for this SDG. Chloroform was detected in FBQW2231 at 0.373 µg/L but was not detected in the site samples. There were no other detects above the MDL in field QC samples.

- Field Duplicates: Samples B1BS0080S001 and B1BS0080D001 were the field duplicate samples identified for this SDG. There was a common detect below the RL for styrene with a calculated RPD $\leq 100\%$. Toluene was reported above the reporting limit in B1BS0080S001 only.
- Internal Standards Performance: Review is not applicable at a Level V validation.
- Compound Identification: Review is not applicable at a Level V validation. The laboratory analyzed for volatile target compounds by Method 8260B.
- Compound Quantification and Reported Detection Limits: Review is not applicable at a Level V validation. Any result reported between the MDL and the reporting limit was qualified as estimated, "J." Reported nondetects are valid to the reporting limit.
- Tentatively Identified Compounds: TICs were not reported by the laboratory for this SDG.
- System Performance: Review is not applicable at a Level V validation.

Validated Sample Result Forms: 230952

Analysis Method 6010B

Sample Name	B1BS0078S001	Matrix Type:	Soil	Result Type:	Primary Result
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Lab Sample Name:	230952009	Sample Date:	6/3/2009 9:35:00 AM	Validation Level:	V
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Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Aluminum	7429905	12300	20.8		7.06 mg/kg			

Sample Name	B1BS0080D001	Matrix Type:	Soil	Result Type:	Primary Result
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Lab Sample Name:	230952001	Sample Date:	6/3/2009	Validation Level:	V
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Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Aluminum	7429905	10300	20.8		7.06 mg/kg			

Sample Name	B1BS0080S001	Matrix Type:	Soil	Result Type:	Primary Result
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Lab Sample Name:	230952003	Sample Date:	6/3/2009 7:43:00 AM	Validation Level:	V
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Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Aluminum	7429905	10300	19.9		6.75 mg/kg			

Sample Name	B1BS0081S001	Matrix Type:	Soil	Result Type:	Primary Result
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Lab Sample Name:	230952008	Sample Date:	6/3/2009 9:20:00 AM	Validation Level:	V
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Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Aluminum	7429905	10800	20.7		7.03 mg/kg			

Sample Name	EBQW2217	Matrix Type:	Water	Result Type:	Primary Result
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Lab Sample Name:	230952022	Sample Date:	6/3/2009 1:30:00 PM	Validation Level:	V
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Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Aluminum	7429905	68	200		68 ug/L	U	U	

Analysis Method 6020

Sample Name B1BS0077S001 **Matrix Type:** Soil **Result Type:** Primary Result
Lab Sample Name: 230952011 **Sample Date:** 6/3/2009 10:00:00 AM **Validation Level:** V

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Cadmium	7440439	0.104	0.206		0.0206 mg/kg	J	J	E
Copper	7440508	9.4	0.206		0.0412 mg/kg	EN	J	Q, A
Lead	7439921	3.94	0.412		0.103 mg/kg	*N	J	Q
Selenium	7782492	0.515	1.03		0.515 mg/kg	U	U	
Zinc	7440666	52	10.3		2.06 mg/kg	E	J	A

Sample Name B1BS0078S001 **Matrix Type:** Soil **Result Type:** Primary Result
Lab Sample Name: 230952009 **Sample Date:** 6/3/2009 9:35:00 AM **Validation Level:** V

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Beryllium	7440417	0.61	0.106		0.0212 mg/kg			
Cadmium	7440439	0.713	0.212		0.0212 mg/kg		J	E
Copper	7440508	11.3	0.212		0.0424 mg/kg	EN	J	Q, A
Lead	7439921	10.4	0.424		0.106 mg/kg	*N	J	Q
Selenium	7782492	0.53	1.06		0.53 mg/kg	U	U	
Zinc	7440666	82.4	10.6		2.12 mg/kg	E	J	A

Sample Name B1BS0080D001 **Matrix Type:** Soil **Result Type:** Primary Result
Lab Sample Name: 230952001 **Sample Date:** 6/3/2009 **Validation Level:** V

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Beryllium	7440417	0.48	0.101		0.0202 mg/kg			
Cadmium	7440439	0.129	0.202		0.0202 mg/kg	J	J	E
Copper	7440508	5.16	0.202		0.0403 mg/kg	EN	J	Q, A
Lead	7439921	5.12	0.403		0.101 mg/kg	*N	J	Q
Selenium	7782492	0.504	1.01		0.504 mg/kg	U	U	
Zinc	7440666	48.8	10.1		2.02 mg/kg	E	J	A

Analysis Method 6020

Sample Name B1BS0080S001 **Matrix Type:** Soil **Result Type:** Primary Result
Lab Sample Name: 230952003 **Sample Date:** 6/3/2009 7:43:00 AM **Validation Level:** V

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Beryllium	7440417	0.49	0.101		0.0203 mg/kg			
Cadmium	7440439	0.147	0.203		0.0203 mg/kg	J	J	E
Copper	7440508	5.68	0.203		0.0406 mg/kg	EN	J	A
Lead	7439921	5.8	0.406		0.101 mg/kg	*N		
Selenium	7782492	0.507	1.01		0.507 mg/kg	U	U	
Zinc	7440666	54	10.1		2.03 mg/kg	E		

Sample Name B1BS0081S001 **Matrix Type:** Soil **Result Type:** Primary Result
Lab Sample Name: 230952008 **Sample Date:** 6/3/2009 9:20:00 AM **Validation Level:** V

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Beryllium	7440417	0.409	0.101		0.0201 mg/kg			
Cadmium	7440439	0.186	0.201		0.0201 mg/kg	J	J	E
Selenium	7782492	0.504	1.01		0.504 mg/kg	U	U	

Sample Name B1BS0082S001 **Matrix Type:** Soil **Result Type:** Primary Result
Lab Sample Name: 230952005 **Sample Date:** 6/3/2009 8:30:00 AM **Validation Level:** V

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Cadmium	7440439	0.131	0.204		0.0204 mg/kg	J	J	E

Sample Name EBQW2217 **Matrix Type:** Water **Result Type:** Primary Result
Lab Sample Name: 230952022 **Sample Date:** 6/3/2009 1:30:00 PM **Validation Level:** V

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Arsenic	7440382	1.5	5		1.5 ug/L	U	U	
Beryllium	7440417	0.1	0.5		0.1 ug/L	U	U	
Cadmium	7440439	0.11	1		0.11 ug/L	U	U	
Copper	7440508	0.3	1		0.3 ug/L	U	U	
Lead	7439921	0.5	2		0.5 ug/L	U	U	
Selenium	7782492	1	5		1 ug/L	U	U	
Zinc	7440666	2.6	10		2.6 ug/L	U	U	

Analysis Method 6020

Sample Name ILBS0249S002 **Matrix Type:** Soil **Result Type:** Primary Result
Lab Sample Name: 230952021 **Sample Date:** 6/3/2009 1:05:00 PM **Validation Level:** V

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Cadmium	7440439	0.255	0.204	0.0204	mg/kg		J	E
Copper	7440508	16.9	1.02	0.204	mg/kg	EN	J	Q, A
Lead	7439921	4.75	0.408	0.102	mg/kg	*N	J	Q
Zinc	7440666	64.2	2.04	0.408	mg/kg	E	J	A

Sample Name ILBS0250S001 **Matrix Type:** Soil **Result Type:** Primary Result
Lab Sample Name: 230952019 **Sample Date:** 6/3/2009 12:45:00 PM **Validation Level:** V

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Cadmium	7440439	0.0591	0.216	0.0216	mg/kg	J	J	E
Copper	7440508	8.23	0.216	0.0433	mg/kg	EN	J	Q
Lead	7439921	4.7	0.433	0.108	mg/kg	*N	J	Q
Zinc	7440666	45.3	2.16	0.433	mg/kg	E	J	A

Sample Name ILBS0251S001 **Matrix Type:** Soil **Result Type:** Primary Result
Lab Sample Name: 230952017 **Sample Date:** 6/3/2009 12:20:00 PM **Validation Level:** V

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Arsenic	7440382	13.3	1.02	0.306	mg/kg			
Cadmium	7440439	0.358	0.204	0.0204	mg/kg		J	E
Copper	7440508	11.7	0.204	0.0408	mg/kg	EN	J	Q, A
Lead	7439921	30.2	2.04	0.51	mg/kg	*N	J	Q
Zinc	7440666	195	51	10.2	mg/kg	E	J	A

Sample Name ILBS0252S001 **Matrix Type:** Soil **Result Type:** Primary Result
Lab Sample Name: 230952015 **Sample Date:** 6/3/2009 11:15:00 AM **Validation Level:** V

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Arsenic	7440382	8.1	1.02	0.305	mg/kg			

Analysis Method 6020

Sample Name	ILBS0253S001	Matrix Type:	Soil	Result Type:	Primary Result			
Lab Sample Name:	230952013	Sample Date:	6/3/2009 10:55:00 AM	Validation Level:	V			
Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Arsenic	7440382	6.67	1.08	0.325	mg/kg			
Cadmium	7440439	0.0624	0.217	0.0217	mg/kg	J	J	
Copper	7440508	5.92	0.217	0.0434	mg/kg	EN	J	A
Lead	7439921	5.8	0.434	0.108	mg/kg	*N		
Zinc	7440666	48.4	10.8	2.17	mg/kg	E	J	A

Analysis Method 7470A

Sample Name	EBQW2217	Matrix Type:	Water	Result Type:	Primary Result			
Lab Sample Name:	230952022	Sample Date:	6/3/2009 1:30:00 PM	Validation Level:	V			
Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Mercury	7439976	0.067	0.2	0.067	ug/L	U	U	

Analysis Method 7471A

Sample Name	ILBS0249S002	Matrix Type: Soil				Result Type: Primary Result		
Lab Sample Name:	230952021	Sample Date: 6/3/2009 1:05:00 PM				Validation Level: V		
Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Mercury	7439976	0.19	0.0127	0.00431	mg/kg	EN	J	Q, A
Sample Name	ILBS0250S001	Matrix Type: Soil				Result Type: Primary Result		
Lab Sample Name:	230952019	Sample Date: 6/3/2009 12:45:00 PM				Validation Level: V		
Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Mercury	7439976	0.00434	0.0128	0.00434	mg/kg	UEN	UJ	B, A
Sample Name	ILBS0251S001	Matrix Type: Soil				Result Type: Primary Result		
Lab Sample Name:	230952017	Sample Date: 6/3/2009 12:20:00 PM				Validation Level: V		
Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Mercury	7439976	0.0235	0.0124	0.00422	mg/kg	EN	J	Q, A
Sample Name	ILBS0252S001	Matrix Type: Soil				Result Type: Primary Result		
Lab Sample Name:	230952015	Sample Date: 6/3/2009 11:15:00 AM				Validation Level: V		
Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Mercury	7439976	0.00738	0.0119	0.00405	mg/kg	JEN	J	B, Q, A
Sample Name	ILBS0253S001	Matrix Type: Soil				Result Type: Primary Result		
Lab Sample Name:	230952013	Sample Date: 6/3/2009 10:55:00 AM				Validation Level: V		
Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Mercury	7439976	0.00644	0.0119	0.00405	mg/kg	JEN	J	B, A

Analysis Method 8015B

Sample Name B1BS0077S001 **Matrix Type:** Soil **Result Type:** Primary Result
Lab Sample Name: 230952011 **Sample Date:** 6/3/2009 10:00:00 AM **Validation Level:** V

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
EFH (C12 - C14)	EFHD (C12)	3.44	3.44		1.14 mg/kg	U	U	
EFH (C15 - C20)	EFHD (C15)	3.44	3.44		1.14 mg/kg	U	U	
EFH (C21 - C30)	EFHD (C21)	14	3.44		1.14 mg/kg			
EFH (C8 - C11)	EFHD (C8-	3.44	3.44		1.14 mg/kg	U	U	

Sample Name B1BS0078S001 **Matrix Type:** Soil **Result Type:** Primary Result
Lab Sample Name: 230952009 **Sample Date:** 6/3/2009 9:35:00 AM **Validation Level:** V

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
EFH (C12 - C14)	EFHD (C12)	3.54	3.54		1.17 mg/kg	U	U	
EFH (C15 - C20)	EFHD (C15)	3.54	3.54		1.17 mg/kg	U	U	
EFH (C21 - C30)	EFHD (C21)	8.18	3.54		1.17 mg/kg			
EFH (C8 - C11)	EFHD (C8-	3.54	3.54		1.17 mg/kg	U	U	

Sample Name B1BS0080D001 **Matrix Type:** Soil **Result Type:** Primary Result
Lab Sample Name: 230952001 **Sample Date:** 6/3/2009 **Validation Level:** V

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
EFH (C12 - C14)	EFHD (C12)	3.49	3.49		1.15 mg/kg	U	U	
EFH (C15 - C20)	EFHD (C15)	3.49	3.49		1.15 mg/kg	U	U	
EFH (C21 - C30)	EFHD (C21)	4.72	3.49		1.15 mg/kg			
EFH (C8 - C11)	EFHD (C8-	3.49	3.49		1.15 mg/kg	U	U	

Sample Name B1BS0080S001 **Matrix Type:** Soil **Result Type:** Primary Result
Lab Sample Name: 230952003 **Sample Date:** 6/3/2009 7:43:00 AM **Validation Level:** V

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
EFH (C12 - C14)	EFHD (C12)	3.45	3.45		1.14 mg/kg	U	U	
EFH (C15 - C20)	EFHD (C15)	3.45	3.45		1.14 mg/kg	U	U	
EFH (C21 - C30)	EFHD (C21)	2.39	3.45		1.14 mg/kg	J	J	
EFH (C8 - C11)	EFHD (C8-	3.45	3.45		1.14 mg/kg	BJ	U	B, result changed from 3

Analysis Method 8015B

Sample Name	EBQW2217	Matrix Type: Water			Result Type: Primary Result			
Lab Sample Name:	230952022	Sample Date: 6/3/2009 1:30:00 PM			Validation Level: V			
Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
EFH (C12 - C14)	EFHD (C12	94.3	94.3		31.1 ug/L	U	U	
EFH (C15 - C20)	EFHD (C15	94.3	94.3		31.1 ug/L	U	U	
EFH (C21 - C30)	EFHD (C21	94.3	94.3		31.1 ug/L	U	U	
EFH (C8 - C11)	EFHD (C8-	94.3	94.3		31.1 ug/L	U	U	

Analysis Method 8082

Sample Name	EBQW2217	Matrix Type: Water			Result Type: Primary Result			
Lab Sample Name:	230952022	Sample Date: 6/3/2009 1:30:00 PM			Validation Level: V			
Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Aroclor-1016	12674112	0.0943	0.0943		0.0314 ug/L	U	U	
Aroclor-1221	11104282	0.0943	0.0943		0.0314 ug/L	U	U	
Aroclor-1232	11141165	0.0943	0.0943		0.0314 ug/L	U	U	
Aroclor-1242	53469219	0.0943	0.0943		0.0314 ug/L	U	U	
Aroclor-1248	12672296	0.0943	0.0943		0.0314 ug/L	U	U	
Aroclor-1254	11097691	0.0943	0.0943		0.0314 ug/L	U	U	
Aroclor-1260	11096825	0.0943	0.0943		0.0314 ug/L	U	U	

Analysis Method 8260B

Sample Name B1BS0077S001 **Matrix Type:** Soil **Result Type:** Primary Result
Lab Sample Name: 230952011 **Sample Date:** 6/3/2009 10:00:00 AM **Validation Level:** V

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
1,1,1,2-Tetrachloroethane	630206	0.996	0.996	0.299	ug/kg	U	U	
1,1,1-Trichloroethane	71556	0.996	0.996	0.299	ug/kg	U	U	
1,1,2,2-Tetrachloroethane	79345	0.996	0.996	0.299	ug/kg	U	U	
1,1,2-Trichloro-1,2,2-trifluoroethane	76131	4.98	4.98	1.59	ug/kg	U	U	
1,1,2-Trichloroethane	79005	0.996	0.996	0.299	ug/kg	U	U	
1,1-Dichloroethane	75343	0.996	0.996	0.299	ug/kg	U	U	
1,1-Dichloroethene	75354	0.996	0.996	0.299	ug/kg	U	U	
1,1-Dichloropropene	563586	0.996	0.996	0.299	ug/kg	U	U	
1,2,3-Trichlorobenzene	87616	0.996	0.996	0.299	ug/kg	U	U	
1,2,3-Trichloropropane	96184	0.996	0.996	0.299	ug/kg	U	U	
1,2,4-Trichlorobenzene	120821	0.996	0.996	0.299	ug/kg	U	U	
1,2,4-Trimethylbenzene	95636	0.996	0.996	0.299	ug/kg	U	U	
1,2-Dibromo-3-chloropropane	96128	0.996	0.996	0.498	ug/kg	U	U	
1,2-Dibromoethane (EDB)	106934	0.996	0.996	0.299	ug/kg	U	U	
1,2-Dichlorobenzene	95501	0.996	0.996	0.299	ug/kg	U	U	
1,2-Dichloroethane	107062	0.996	0.996	0.299	ug/kg	U	U	
1,2-Dichloropropane	78875	0.996	0.996	0.299	ug/kg	U	U	
1,3,5-Trimethylbenzene	108678	0.996	0.996	0.299	ug/kg	U	U	
1,3-Dichlorobenzene	541731	0.996	0.996	0.299	ug/kg	U	U	
1,3-Dichloropropane	142289	0.996	0.996	0.299	ug/kg	U	U	
1,4-Dichlorobenzene	106467	0.996	0.996	0.299	ug/kg	U	U	
2,2-dichloropropane	594207	0.996	0.996	0.299	ug/kg	U	U	
2-Butanone (MEK)	78933	4.98	4.98	1.24	ug/kg	U	U	
2-Chloro-1,1,1-trifluoroethane	75887	9.96	9.96	2.99	ug/kg	U	U	
2-Chloroethyl vinyl ether	110758	4.98	4.98	1.24	ug/kg	U	U	
2-Chlorotoluene	95498	0.996	0.996	0.299	ug/kg	U	U	
2-Hexanone	591786	4.98	4.98	1.49	ug/kg	U	U	
4-Chlorotoluene	106434	0.996	0.996	0.299	ug/kg	U	U	
4-Methyl-2-pentanone (MIBK)	108101	4.98	4.98	1.24	ug/kg	U	U	
Acetone	67641	4.98	4.98	1.65	ug/kg	U	U	
Benzene	71432	0.996	0.996	0.299	ug/kg	U	U	
Bromobenzene	108861	0.996	0.996	0.299	ug/kg	U	U	
Bromochloromethane	74975	0.996	0.996	0.299	ug/kg	U	U	
Bromodichloromethane	75274	0.996	0.996	0.299	ug/kg	U	U	
Bromoform	75252	0.996	0.996	0.299	ug/kg	U	U	

Analysis Method **8260B**

Bromomethane	74839	0.996	0.996	0.299 ug/kg	U	U
Carbon Tetrachloride	56235	0.996	0.996	0.299 ug/kg	U	U
Chlorobenzene	108907	0.996	0.996	0.299 ug/kg	U	U
Chloroethane	75003	0.996	0.996	0.299 ug/kg	U	U
Chloroform	67663	0.996	0.996	0.299 ug/kg	U	U
Chloromethane	74873	0.996	0.996	0.299 ug/kg	U	U
Chlorotrifluoroethylene	79389	9.96	9.96	2.99 ug/kg	U	U
cis-1,2-Dichloroethene	156592	0.996	0.996	0.299 ug/kg	U	U
cis-1,3-Dichloropropene	10061015	0.996	0.996	0.299 ug/kg	U	U
Dibromochloromethane	124481	0.996	0.996	0.299 ug/kg	U	U
Dibromomethane	74953	0.996	0.996	0.299 ug/kg	U	U
Dichlorodifluoromethane	75718	0.996	0.996	0.299 ug/kg	U	U
Ethylbenzene	100414	0.996	0.996	0.299 ug/kg	U	U
Hexachlorobutadiene	87683	0.996	0.996	0.299 ug/kg	U	U
Isopropylbenzene	98828	0.996	0.996	0.299 ug/kg	U	U
m,p-Xylenes	136777612	1.99	1.99	0.299 ug/kg	U	U
Methylene chloride	75092	4.98	4.98	1.99 ug/kg	U	U
Methyl-tert-butyl ether (MTBE)	1634044	0.996	0.996	0.299 ug/kg	U	U
n-Butylbenzene	104518	0.996	0.996	0.299 ug/kg	U	U
n-Propylbenzene	103651	0.996	0.996	0.299 ug/kg	U	U
o-Xylene	95476	0.996	0.996	0.299 ug/kg	U	U
p-Isopropyltoluene	99876	0.996	0.996	0.299 ug/kg	U	U
sec-Butylbenzene	135988	0.996	0.996	0.299 ug/kg	U	U
Styrene	100425	0.847	0.996	0.299 ug/kg	J	J
tert-Butylbenzene	98066	0.996	0.996	0.299 ug/kg	U	U
Tetrachloroethene	127184	0.996	0.996	0.299 ug/kg	U	U
Toluene	108883	2.03	0.996	0.299 ug/kg		
trans-1,2-Dichloroethene	156605	0.996	0.996	0.299 ug/kg	U	U
trans-1,3-Dichloropropene	10061026	0.996	0.996	0.299 ug/kg	U	U
Trichloroethene	79016	0.996	0.996	0.299 ug/kg	U	U
Trichlorofluoromethane	75694	0.996	0.996	0.568 ug/kg	U	U
Vinyl chloride	75014	0.996	0.996	0.299 ug/kg	U	U

Analysis Method 8260B

Sample Name B1BS0078S001 **Matrix Type:** Soil **Result Type:** Primary Result
Lab Sample Name: 230952009 **Sample Date:** 6/3/2009 9:35:00 AM **Validation Level:** V

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
1,1,1,2-Tetrachloroethane	630206	0.966	0.966	0.29	ug/kg	U	U	
1,1,1-Trichloroethane	71556	0.966	0.966	0.29	ug/kg	U	U	
1,1,2,2-Tetrachloroethane	79345	0.966	0.966	0.29	ug/kg	U	U	
1,1,2-Trichloro-1,2,2-trifluoroethane	76131	4.83	4.83	1.55	ug/kg	U	U	
1,1,2-Trichloroethane	79005	0.966	0.966	0.29	ug/kg	U	U	
1,1-Dichloroethane	75343	0.966	0.966	0.29	ug/kg	U	U	
1,1-Dichloroethene	75354	0.966	0.966	0.29	ug/kg	U	U	
1,1-Dichloropropene	563586	0.966	0.966	0.29	ug/kg	U	U	
1,2,3-Trichlorobenzene	87616	0.966	0.966	0.29	ug/kg	U	U	
1,2,3-Trichloropropane	96184	0.966	0.966	0.29	ug/kg	U	U	
1,2,4-Trichlorobenzene	120821	0.966	0.966	0.29	ug/kg	U	U	
1,2,4-Trimethylbenzene	95636	0.966	0.966	0.29	ug/kg	U	U	
1,2-Dibromo-3-chloropropane	96128	0.966	0.966	0.483	ug/kg	U	U	
1,2-Dibromoethane (EDB)	106934	0.966	0.966	0.29	ug/kg	U	U	
1,2-Dichlorobenzene	95501	0.966	0.966	0.29	ug/kg	U	U	
1,2-Dichloroethane	107062	0.966	0.966	0.29	ug/kg	U	U	
1,2-Dichloropropane	78875	0.966	0.966	0.29	ug/kg	U	U	
1,3,5-Trimethylbenzene	108678	0.966	0.966	0.29	ug/kg	U	U	
1,3-Dichlorobenzene	541731	0.966	0.966	0.29	ug/kg	U	U	
1,3-Dichloropropane	142289	0.966	0.966	0.29	ug/kg	U	U	
1,4-Dichlorobenzene	106467	0.966	0.966	0.29	ug/kg	U	U	
2,2-dichloropropane	594207	0.966	0.966	0.29	ug/kg	U	U	
2-Butanone (MEK)	78933	4.83	4.83	1.21	ug/kg	U	U	
2-Chloro-1,1,1-trifluoroethane	75887	9.66	9.66	2.9	ug/kg	U	U	
2-Chloroethyl vinyl ether	110758	4.83	4.83	1.21	ug/kg	U	U	
2-Chlorotoluene	95498	0.966	0.966	0.29	ug/kg	U	U	
2-Hexanone	591786	4.83	4.83	1.45	ug/kg	U	U	
4-Chlorotoluene	106434	0.966	0.966	0.29	ug/kg	U	U	
4-Methyl-2-pentanone (MIBK)	108101	4.83	4.83	1.21	ug/kg	U	U	
Acetone	67641	4.83	4.83	1.6	ug/kg	U	U	
Benzene	71432	0.966	0.966	0.29	ug/kg	U	U	
Bromobenzene	108861	0.966	0.966	0.29	ug/kg	U	U	
Bromochloromethane	74975	0.966	0.966	0.29	ug/kg	U	U	
Bromodichloromethane	75274	0.966	0.966	0.29	ug/kg	U	U	
Bromoform	75252	0.966	0.966	0.29	ug/kg	U	U	

Analysis Method **8260B**

Bromomethane	74839	0.966	0.966	0.29 ug/kg	U	U
Carbon Tetrachloride	56235	0.966	0.966	0.29 ug/kg	U	U
Chlorobenzene	108907	0.966	0.966	0.29 ug/kg	U	U
Chloroethane	75003	0.966	0.966	0.29 ug/kg	U	U
Chloroform	67663	0.966	0.966	0.29 ug/kg	U	U
Chloromethane	74873	0.966	0.966	0.29 ug/kg	U	U
Chlorotrifluoroethylene	79389	9.66	9.66	2.9 ug/kg	U	U
cis-1,2-Dichloroethene	156592	0.966	0.966	0.29 ug/kg	U	U
cis-1,3-Dichloropropene	10061015	0.966	0.966	0.29 ug/kg	U	U
Dibromochloromethane	124481	0.966	0.966	0.29 ug/kg	U	U
Dibromomethane	74953	0.966	0.966	0.29 ug/kg	U	U
Dichlorodifluoromethane	75718	0.966	0.966	0.29 ug/kg	U	U
Ethylbenzene	100414	0.966	0.966	0.29 ug/kg	U	U
Hexachlorobutadiene	87683	0.966	0.966	0.29 ug/kg	U	U
Isopropylbenzene	98828	0.966	0.966	0.29 ug/kg	U	U
m,p-Xylenes	136777612	1.93	1.93	0.29 ug/kg	U	U
Methylene chloride	75092	4.83	4.83	1.93 ug/kg	U	U
Methyl-tert-butyl ether (MTBE)	1634044	0.966	0.966	0.29 ug/kg	U	U
n-Butylbenzene	104518	0.966	0.966	0.29 ug/kg	U	U
n-Propylbenzene	103651	0.966	0.966	0.29 ug/kg	U	U
o-Xylene	95476	0.966	0.966	0.29 ug/kg	U	U
p-Isopropyltoluene	99876	0.966	0.966	0.29 ug/kg	U	U
sec-Butylbenzene	135988	0.966	0.966	0.29 ug/kg	U	U
Styrene	100425	0.586	0.966	0.29 ug/kg	J	J
tert-Butylbenzene	98066	0.966	0.966	0.29 ug/kg	U	U
Tetrachloroethene	127184	0.966	0.966	0.29 ug/kg	U	U
Toluene	108883	0.459	0.966	0.29 ug/kg	J	J
trans-1,2-Dichloroethene	156605	0.966	0.966	0.29 ug/kg	U	U
trans-1,3-Dichloropropene	10061026	0.966	0.966	0.29 ug/kg	U	U
Trichloroethene	79016	0.966	0.966	0.29 ug/kg	U	U
Trichlorofluoromethane	75694	0.966	0.966	0.551 ug/kg	U	U
Vinyl chloride	75014	0.966	0.966	0.29 ug/kg	U	U

Analysis Method 8260B

Sample Name B1BS0080D001 **Matrix Type:** Soil **Result Type:** Primary Result
Lab Sample Name: 230952001 **Sample Date:** 6/3/2009 **Validation Level:** V

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
1,1,1,2-Tetrachloroethane	630206	0.989	0.989	0.297	ug/kg	U	U	
1,1,1-Trichloroethane	71556	0.989	0.989	0.297	ug/kg	U	U	
1,1,2,2-Tetrachloroethane	79345	0.989	0.989	0.297	ug/kg	U	U	
1,1,2-Trichloro-1,2,2-trifluoroethane	76131	4.94	4.94	1.58	ug/kg	U	U	
1,1,2-Trichloroethane	79005	0.989	0.989	0.297	ug/kg	U	U	
1,1-Dichloroethane	75343	0.989	0.989	0.297	ug/kg	U	U	
1,1-Dichloroethene	75354	0.989	0.989	0.297	ug/kg	U	U	
1,1-Dichloropropene	563586	0.989	0.989	0.297	ug/kg	U	U	
1,2,3-Trichlorobenzene	87616	0.989	0.989	0.297	ug/kg	U	U	
1,2,3-Trichloropropane	96184	0.989	0.989	0.297	ug/kg	U	U	
1,2,4-Trichlorobenzene	120821	0.989	0.989	0.297	ug/kg	U	U	
1,2,4-Trimethylbenzene	95636	0.989	0.989	0.297	ug/kg	U	U	
1,2-Dibromo-3-chloropropane	96128	0.989	0.989	0.494	ug/kg	U	U	
1,2-Dibromoethane (EDB)	106934	0.989	0.989	0.297	ug/kg	U	U	
1,2-Dichlorobenzene	95501	0.989	0.989	0.297	ug/kg	U	U	
1,2-Dichloroethane	107062	0.989	0.989	0.297	ug/kg	U	U	
1,2-Dichloropropane	78875	0.989	0.989	0.297	ug/kg	U	U	
1,3,5-Trimethylbenzene	108678	0.989	0.989	0.297	ug/kg	U	U	
1,3-Dichlorobenzene	541731	0.989	0.989	0.297	ug/kg	U	U	
1,3-Dichloropropane	142289	0.989	0.989	0.297	ug/kg	U	U	
1,4-Dichlorobenzene	106467	0.989	0.989	0.297	ug/kg	U	U	
2,2-dichloropropane	594207	0.989	0.989	0.297	ug/kg	U	U	
2-Butanone (MEK)	78933	4.94	4.94	1.24	ug/kg	U	U	
2-Chloro-1,1,1-trifluoroethane	75887	9.89	9.89	2.97	ug/kg	U	U	
2-Chloroethyl vinyl ether	110758	4.94	4.94	1.24	ug/kg	U	U	
2-Chlorotoluene	95498	0.989	0.989	0.297	ug/kg	U	U	
2-Hexanone	591786	4.94	4.94	1.48	ug/kg	U	U	
4-Chlorotoluene	106434	0.989	0.989	0.297	ug/kg	U	U	
4-Methyl-2-pentanone (MIBK)	108101	4.94	4.94	1.24	ug/kg	U	U	
Acetone	67641	4.94	4.94	1.64	ug/kg	U	U	
Benzene	71432	0.989	0.989	0.297	ug/kg	U	U	
Bromobenzene	108861	0.989	0.989	0.297	ug/kg	U	U	
Bromochloromethane	74975	0.989	0.989	0.297	ug/kg	U	U	
Bromodichloromethane	75274	0.989	0.989	0.297	ug/kg	U	U	
Bromoform	75252	0.989	0.989	0.297	ug/kg	U	U	

Analysis Method **8260B**

Bromomethane	74839	0.989	0.989	0.297 ug/kg	U	U
Carbon Tetrachloride	56235	0.989	0.989	0.297 ug/kg	U	U
Chlorobenzene	108907	0.989	0.989	0.297 ug/kg	U	U
Chloroethane	75003	0.989	0.989	0.297 ug/kg	U	U
Chloroform	67663	0.989	0.989	0.297 ug/kg	U	U
Chloromethane	74873	0.989	0.989	0.297 ug/kg	U	U
Chlorotrifluoroethylene	79389	9.89	9.89	2.97 ug/kg	U	U
cis-1,2-Dichloroethene	156592	0.989	0.989	0.297 ug/kg	U	U
cis-1,3-Dichloropropene	10061015	0.989	0.989	0.297 ug/kg	U	U
Dibromochloromethane	124481	0.989	0.989	0.297 ug/kg	U	U
Dibromomethane	74953	0.989	0.989	0.297 ug/kg	U	U
Dichlorodifluoromethane	75718	0.989	0.989	0.297 ug/kg	U	U
Ethylbenzene	100414	0.989	0.989	0.297 ug/kg	U	U
Hexachlorobutadiene	87683	0.989	0.989	0.297 ug/kg	U	U
Isopropylbenzene	98828	0.989	0.989	0.297 ug/kg	U	U
m,p-Xylenes	136777612	1.98	1.98	0.297 ug/kg	U	U
Methylene chloride	75092	4.94	4.94	1.98 ug/kg	U	U
Methyl-tert-butyl ether (MTBE)	1634044	0.989	0.989	0.297 ug/kg	U	U
n-Butylbenzene	104518	0.989	0.989	0.297 ug/kg	U	U
n-Propylbenzene	103651	0.989	0.989	0.297 ug/kg	U	U
o-Xylene	95476	0.989	0.989	0.297 ug/kg	U	U
p-Isopropyltoluene	99876	0.989	0.989	0.297 ug/kg	U	U
sec-Butylbenzene	135988	0.989	0.989	0.297 ug/kg	U	U
Styrene	100425	0.761	0.989	0.297 ug/kg	J	J
tert-Butylbenzene	98066	0.989	0.989	0.297 ug/kg	U	U
Tetrachloroethene	127184	0.989	0.989	0.297 ug/kg	U	U
Toluene	108883	2.19	0.989	0.297 ug/kg		
trans-1,2-Dichloroethene	156605	0.989	0.989	0.297 ug/kg	U	U
trans-1,3-Dichloropropene	10061026	0.989	0.989	0.297 ug/kg	U	U
Trichloroethene	79016	0.989	0.989	0.297 ug/kg	U	U
Trichlorofluoromethane	75694	0.989	0.989	0.564 ug/kg	U	U
Vinyl chloride	75014	0.989	0.989	0.297 ug/kg	U	U

Analysis Method 8260B

Sample Name B1BS0080S001 **Matrix Type:** Soil **Result Type:** Primary Result
Lab Sample Name: 230952003 **Sample Date:** 6/3/2009 7:43:00 AM **Validation Level:** V

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
1,1,1,2-Tetrachloroethane	630206	1.02	1.02	0.306	ug/kg	U	U	
1,1,1-Trichloroethane	71556	1.02	1.02	0.306	ug/kg	U	U	
1,1,2,2-Tetrachloroethane	79345	1.02	1.02	0.306	ug/kg	U	U	
1,1,2-Trichloro-1,2,2-trifluoroethane	76131	5.1	5.1	1.63	ug/kg	U	U	
1,1,2-Trichloroethane	79005	1.02	1.02	0.306	ug/kg	U	U	
1,1-Dichloroethane	75343	1.02	1.02	0.306	ug/kg	U	U	
1,1-Dichloroethene	75354	1.02	1.02	0.306	ug/kg	U	U	
1,1-Dichloropropene	563586	1.02	1.02	0.306	ug/kg	U	U	
1,2,3-Trichlorobenzene	87616	1.02	1.02	0.306	ug/kg	U	U	
1,2,3-Trichloropropane	96184	1.02	1.02	0.306	ug/kg	U	U	
1,2,4-Trichlorobenzene	120821	1.02	1.02	0.306	ug/kg	U	U	
1,2,4-Trimethylbenzene	95636	1.02	1.02	0.306	ug/kg	U	U	
1,2-Dibromo-3-chloropropane	96128	1.02	1.02	0.51	ug/kg	U	U	
1,2-Dibromoethane (EDB)	106934	1.02	1.02	0.306	ug/kg	U	U	
1,2-Dichlorobenzene	95501	1.02	1.02	0.306	ug/kg	U	U	
1,2-Dichloroethane	107062	1.02	1.02	0.306	ug/kg	U	U	
1,2-Dichloropropane	78875	1.02	1.02	0.306	ug/kg	U	U	
1,3,5-Trimethylbenzene	108678	1.02	1.02	0.306	ug/kg	U	U	
1,3-Dichlorobenzene	541731	1.02	1.02	0.306	ug/kg	U	U	
1,3-Dichloropropane	142289	1.02	1.02	0.306	ug/kg	U	U	
1,4-Dichlorobenzene	106467	1.02	1.02	0.306	ug/kg	U	U	
2,2-dichloropropane	594207	1.02	1.02	0.306	ug/kg	U	U	
2-Butanone (MEK)	78933	5.1	5.1	1.27	ug/kg	U	U	
2-Chloro-1,1,1-trifluoroethane	75887	10.2	10.2	3.06	ug/kg	U	U	
2-Chloroethyl vinyl ether	110758	5.1	5.1	1.27	ug/kg	U	U	
2-Chlorotoluene	95498	1.02	1.02	0.306	ug/kg	U	U	
2-Hexanone	591786	5.1	5.1	1.53	ug/kg	U	U	
4-Chlorotoluene	106434	1.02	1.02	0.306	ug/kg	U	U	
4-Methyl-2-pentanone (MIBK)	108101	5.1	5.1	1.27	ug/kg	U	U	
Acetone	67641	5.1	5.1	1.69	ug/kg	U	U	
Benzene	71432	1.02	1.02	0.306	ug/kg	U	U	
Bromobenzene	108861	1.02	1.02	0.306	ug/kg	U	U	
Bromochloromethane	74975	1.02	1.02	0.306	ug/kg	U	U	
Bromodichloromethane	75274	1.02	1.02	0.306	ug/kg	U	U	
Bromoform	75252	1.02	1.02	0.306	ug/kg	U	U	

Analysis Method **8260B**

Bromomethane	74839	1.02	1.02	0.306 ug/kg	U	U
Carbon Tetrachloride	56235	1.02	1.02	0.306 ug/kg	U	U
Chlorobenzene	108907	1.02	1.02	0.306 ug/kg	U	U
Chloroethane	75003	1.02	1.02	0.306 ug/kg	U	U
Chloroform	67663	1.02	1.02	0.306 ug/kg	U	U
Chloromethane	74873	1.02	1.02	0.306 ug/kg	U	U
Chlorotrifluoroethylene	79389	10.2	10.2	3.06 ug/kg	U	U
cis-1,2-Dichloroethene	156592	1.02	1.02	0.306 ug/kg	U	U
cis-1,3-Dichloropropene	10061015	1.02	1.02	0.306 ug/kg	U	U
Dibromochloromethane	124481	1.02	1.02	0.306 ug/kg	U	U
Dibromomethane	74953	1.02	1.02	0.306 ug/kg	U	U
Dichlorodifluoromethane	75718	1.02	1.02	0.306 ug/kg	U	U
Ethylbenzene	100414	1.02	1.02	0.306 ug/kg	U	U
Hexachlorobutadiene	87683	1.02	1.02	0.306 ug/kg	U	U
Isopropylbenzene	98828	1.02	1.02	0.306 ug/kg	U	U
m,p-Xylenes	136777612	2.04	2.04	0.306 ug/kg	U	U
Methylene chloride	75092	5.1	5.1	2.04 ug/kg	U	U
Methyl-tert-butyl ether (MTBE)	1634044	1.02	1.02	0.306 ug/kg	U	U
n-Butylbenzene	104518	1.02	1.02	0.306 ug/kg	U	U
n-Propylbenzene	103651	1.02	1.02	0.306 ug/kg	U	U
o-Xylene	95476	1.02	1.02	0.306 ug/kg	U	U
p-Isopropyltoluene	99876	1.02	1.02	0.306 ug/kg	U	U
sec-Butylbenzene	135988	1.02	1.02	0.306 ug/kg	U	U
Styrene	100425	0.73	1.02	0.306 ug/kg	J	J
tert-Butylbenzene	98066	1.02	1.02	0.306 ug/kg	U	U
Tetrachloroethene	127184	1.02	1.02	0.306 ug/kg	U	U
Toluene	108883	1.03	1.02	0.306 ug/kg		
trans-1,2-Dichloroethene	156605	1.02	1.02	0.306 ug/kg	U	U
trans-1,3-Dichloropropene	10061026	1.02	1.02	0.306 ug/kg	U	U
Trichloroethene	79016	1.02	1.02	0.306 ug/kg	U	U
Trichlorofluoromethane	75694	1.02	1.02	0.581 ug/kg	U	U
Vinyl chloride	75014	1.02	1.02	0.306 ug/kg	U	U

Analysis Method 8260B

Sample Name B1TB2008T001 **Matrix Type:** Water **Result Type:** Primary Result
Lab Sample Name: 230952002 **Sample Date:** 6/3/2009 7:00:00 AM **Validation Level:** V

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
1,1,1,2-Tetrachloroethane	630206	1	1		0.3 ug/L	U	U	
1,1,1-Trichloroethane	71556	1	1		0.325 ug/L	U	U	
1,1,2,2-Tetrachloroethane	79345	1	1		0.25 ug/L	U	U	
1,1,2-Trichloro-1,2,2-trifluoroethane	76131	5	5		1 ug/L	U	U	
1,1,2-Trichloroethane	79005	1	1		0.25 ug/L	U	U	
1,1-Dichloroethane	75343	1	1		0.3 ug/L	U	U	
1,1-Dichloroethene	75354	1	1		0.3 ug/L	U	U	
1,1-Dichloropropene	563586	1	1		0.25 ug/L	U	U	
1,2,3-Trichlorobenzene	87616	1	1		0.332 ug/L	U	U	
1,2,3-Trichloropropane	96184	1	1		0.3 ug/L	U	U	
1,2,4-Trichlorobenzene	120821	1	1		0.3 ug/L	U	U	
1,2,4-Trimethylbenzene	95636	1	1		0.25 ug/L	U	U	
1,2-Dibromo-3-chloropropane	96128	1	1		0.5 ug/L	U	U	
1,2-Dibromoethane (EDB)	106934	1	1		0.25 ug/L	U	U	
1,2-Dichlorobenzene	95501	1	1		0.25 ug/L	U	U	
1,2-Dichloroethane	107062	1	1		0.25 ug/L	U	U	
1,2-Dichloropropane	78875	1	1		0.25 ug/L	U	U	
1,3,5-Trimethylbenzene	108678	1	1		0.25 ug/L	U	U	
1,3-Dichlorobenzene	541731	1	1		0.25 ug/L	U	U	
1,3-Dichloropropane	142289	1	1		0.25 ug/L	U	U	
1,4-Dichlorobenzene	106467	1	1		0.25 ug/L	U	U	
2,2-dichloropropane	594207	1	1		0.3 ug/L	U	U	
2-Butanone (MEK)	78933	5	5		1.25 ug/L	U	U	
2-Chloro-1,1,1-trifluoroethane	75887	10	10		3 ug/L	U	U	
2-Chloroethyl vinyl ether	110758	5	5		1.5 ug/L	U	U	
2-Chlorotoluene	95498	1	1		0.25 ug/L	U	U	
2-Hexanone	591786	5	5		1.25 ug/L	U	U	
4-Chlorotoluene	106434	1	1		0.25 ug/L	U	U	
4-Methyl-2-pentanone (MIBK)	108101	5	5		1.25 ug/L	U	U	
Acetone	67641	5	5		1.5 ug/L	U	U	
Benzene	71432	1	1		0.3 ug/L	U	U	
Bromobenzene	108861	1	1		0.25 ug/L	U	U	
Bromochloromethane	74975	1	1		0.36 ug/L	U	U	
Bromodichloromethane	75274	1	1		0.25 ug/L	U	U	
Bromoform	75252	1	1		0.25 ug/L	U	U	

Analysis Method **8260B**

Bromomethane	74839	1	1	0.5 ug/L	U	U
Carbon Tetrachloride	56235	1	1	0.26 ug/L	U	U
Chlorobenzene	108907	1	1	0.25 ug/L	U	U
Chloroethane	75003	1	1	0.3 ug/L	U	U
Chloroform	67663	1	1	0.25 ug/L	U	U
Chloromethane	74873	1	1	0.3 ug/L	U	U
Chlorotrifluoroethylene	79389	10	10	3 ug/L	U	U
cis-1,2-Dichloroethene	156592	1	1	0.3 ug/L	U	U
cis-1,3-Dichloropropene	10061015	1	1	0.25 ug/L	U	U
Dibromochloromethane	124481	1	1	0.26 ug/L	U	U
Dibromomethane	74953	1	1	0.3 ug/L	U	U
Dichlorodifluoromethane	75718	1	1	0.5 ug/L	U	U
Ethylbenzene	100414	1	1	0.25 ug/L	U	U
Hexachlorobutadiene	87683	1	1	0.44 ug/L	U	U
Isopropylbenzene	98828	1	1	0.25 ug/L	U	U
m,p-Xylenes	136777612	2	2	0.43 ug/L	U	U
Methylene chloride	75092	5	5	2 ug/L	U	U
Methyl-tert-butyl ether (MTBE)	1634044	1	1	0.25 ug/L	U	U
n-Butylbenzene	104518	1	1	0.25 ug/L	U	U
n-Propylbenzene	103651	1	1	0.25 ug/L	U	U
o-Xylene	95476	1	1	0.25 ug/L	U	U
p-Isopropyltoluene	99876	1	1	0.25 ug/L	U	U
sec-Butylbenzene	135988	1	1	0.25 ug/L	U	U
Styrene	100425	1	1	0.25 ug/L	U	U
tert-Butylbenzene	98066	1	1	0.25 ug/L	U	U
Tetrachloroethene	127184	1	1	0.45 ug/L	U	U
Toluene	108883	1	1	0.25 ug/L	U	U
trans-1,2-Dichloroethene	156605	1	1	0.3 ug/L	U	U
trans-1,3-Dichloropropene	10061026	1	1	0.25 ug/L	U	U
Trichloroethene	79016	1	1	0.25 ug/L	U	U
Trichlorofluoromethane	75694	1	1	0.31 ug/L	U	U
Vinyl chloride	75014	1	1	0.5 ug/L	U	U

Analysis Method 8260B

Sample Name EBQW2217 **Matrix Type:** Water **Result Type:** Primary Result
Lab Sample Name: 230952022 **Sample Date:** 6/3/2009 1:30:00 PM **Validation Level:** V

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
1,1,1,2-Tetrachloroethane	630206	1	1		0.3 ug/L	U	U	
1,1,1-Trichloroethane	71556	1	1		0.325 ug/L	U	U	
1,1,2,2-Tetrachloroethane	79345	1	1		0.25 ug/L	U	U	
1,1,2-Trichloro-1,2,2-trifluoroethane	76131	5	5		1 ug/L	U	U	
1,1,2-Trichloroethane	79005	1	1		0.25 ug/L	U	U	
1,1-Dichloroethane	75343	1	1		0.3 ug/L	U	U	
1,1-Dichloroethene	75354	1	1		0.3 ug/L	U	U	
1,1-Dichloropropene	563586	1	1		0.25 ug/L	U	U	
1,2,3-Trichlorobenzene	87616	1	1		0.332 ug/L	U	U	
1,2,3-Trichloropropane	96184	1	1		0.3 ug/L	U	U	
1,2,4-Trichlorobenzene	120821	1	1		0.3 ug/L	U	U	
1,2,4-Trimethylbenzene	95636	1	1		0.25 ug/L	U	U	
1,2-Dibromo-3-chloropropane	96128	1	1		0.5 ug/L	U	U	
1,2-Dibromoethane (EDB)	106934	1	1		0.25 ug/L	U	U	
1,2-Dichlorobenzene	95501	1	1		0.25 ug/L	U	U	
1,2-Dichloroethane	107062	1	1		0.25 ug/L	U	U	
1,2-Dichloropropane	78875	1	1		0.25 ug/L	U	U	
1,3,5-Trimethylbenzene	108678	1	1		0.25 ug/L	U	U	
1,3-Dichlorobenzene	541731	1	1		0.25 ug/L	U	U	
1,3-Dichloropropane	142289	1	1		0.25 ug/L	U	U	
1,4-Dichlorobenzene	106467	1	1		0.25 ug/L	U	U	
2,2-dichloropropane	594207	1	1		0.3 ug/L	U	U	
2-Butanone (MEK)	78933	5	5		1.25 ug/L	U	U	
2-Chloro-1,1,1-trifluoroethane	75887	10	10		3 ug/L	U	U	
2-Chloroethyl vinyl ether	110758	5	5		1.5 ug/L	U	U	
2-Chlorotoluene	95498	1	1		0.25 ug/L	U	U	
2-Hexanone	591786	5	5		1.25 ug/L	U	U	
4-Chlorotoluene	106434	1	1		0.25 ug/L	U	U	
4-Methyl-2-pentanone (MIBK)	108101	5	5		1.25 ug/L	U	U	
Acetone	67641	5	5		1.5 ug/L	U	U	
Benzene	71432	1	1		0.3 ug/L	U	U	
Bromobenzene	108861	1	1		0.25 ug/L	U	U	
Bromochloromethane	74975	1	1		0.36 ug/L	U	U	
Bromodichloromethane	75274	1	1		0.25 ug/L	U	U	
Bromoform	75252	1	1		0.25 ug/L	U	U	

Analysis Method **8260B**

Bromomethane	74839	1	1	0.5 ug/L	U	U
Carbon Tetrachloride	56235	1	1	0.26 ug/L	U	U
Chlorobenzene	108907	1	1	0.25 ug/L	U	U
Chloroethane	75003	1	1	0.3 ug/L	U	U
Chloroform	67663	1	1	0.25 ug/L	U	U
Chloromethane	74873	1	1	0.3 ug/L	U	U
Chlorotrifluoroethylene	79389	10	10	3 ug/L	U	U
cis-1,2-Dichloroethene	156592	1	1	0.3 ug/L	U	U
cis-1,3-Dichloropropene	10061015	1	1	0.25 ug/L	U	U
Dibromochloromethane	124481	1	1	0.26 ug/L	U	U
Dibromomethane	74953	1	1	0.3 ug/L	U	U
Dichlorodifluoromethane	75718	1	1	0.5 ug/L	U	U
Ethylbenzene	100414	1	1	0.25 ug/L	U	U
Hexachlorobutadiene	87683	1	1	0.44 ug/L	U	U
Isopropylbenzene	98828	1	1	0.25 ug/L	U	U
m,p-Xylenes	136777612	2	2	0.43 ug/L	U	U
Methylene chloride	75092	5	5	2 ug/L	U	U
Methyl-tert-butyl ether (MTBE)	1634044	1	1	0.25 ug/L	U	U
n-Butylbenzene	104518	1	1	0.25 ug/L	U	U
n-Propylbenzene	103651	1	1	0.25 ug/L	U	U
o-Xylene	95476	1	1	0.25 ug/L	U	U
p-Isopropyltoluene	99876	1	1	0.25 ug/L	U	U
sec-Butylbenzene	135988	1	1	0.25 ug/L	U	U
Styrene	100425	1	1	0.25 ug/L	U	U
tert-Butylbenzene	98066	1	1	0.25 ug/L	U	U
Tetrachloroethene	127184	1	1	0.45 ug/L	U	U
Toluene	108883	1	1	0.25 ug/L	U	U
trans-1,2-Dichloroethene	156605	1	1	0.3 ug/L	U	U
trans-1,3-Dichloropropene	10061026	1	1	0.25 ug/L	U	U
Trichloroethene	79016	1	1	0.25 ug/L	U	U
Trichlorofluoromethane	75694	1	1	0.31 ug/L	U	U
Vinyl chloride	75014	1	1	0.5 ug/L	U	U

Analysis Method *8270C SIM*

Sample Name EBQW2217 **Matrix Type:** Water **Result Type:** Primary Result
Lab Sample Name: 230952022 **Sample Date:** 6/3/2009 1:30:00 PM **Validation Level:** V

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
1-Methylnaphthalene	90120	0.472	0.472	0.142	ug/L	U	U	
2-Methylnaphthalene	91576	0.472	0.472	0.142	ug/L	U	U	
Acenaphthene	83329	0.472	0.472	0.146	ug/L	U	U	
Acenaphthylene	208968	0.472	0.472	0.0943	ug/L	U	U	
Anthracene	120127	0.472	0.472	0.0943	ug/L	U	U	
Benzo(a)anthracene	56553	0.472	0.472	0.0943	ug/L	U	U	
Benzo(a)pyrene	50328	0.472	0.472	0.0943	ug/L	U	U	
Benzo(b)fluoranthene	205992	0.472	0.472	0.0943	ug/L	U	U	
Benzo(ghi)perylene	191242	0.472	0.472	0.0943	ug/L	U	U	
Benzo(k)fluoranthene	207089	0.472	0.472	0.0943	ug/L	U	U	
bis(2-ethylhexyl)phthalate	117817	0.182	0.472	0.142	ug/L	J	J	
Butyl benzyl phthalate	85687	0.472	0.472	0.142	ug/L	U	U	
Chrysene	218019	0.472	0.472	0.0943	ug/L	U	U	
Dibenzo(a,h)anthracene	53703	0.472	0.472	0.0943	ug/L	U	U	
Diethylphthalate	84662	0.472	0.472	0.142	ug/L	U	U	
Dimethylphthalate	131113	0.472	0.472	0.142	ug/L	U	U	
Di-n-butylphthalate	84742	0.472	0.472	0.142	ug/L	U	U	
Di-n-octyl-phthalate	117840	0.472	0.472	0.142	ug/L	U	U	
Fluoranthene	206440	0.472	0.472	0.0943	ug/L	U	U	
Fluorene	86737	0.472	0.472	0.0943	ug/L	U	U	
Indeno(1,2,3-cd)pyrene	193395	0.472	0.472	0.0943	ug/L	U	U	
Naphthalene	91203	0.472	0.472	0.142	ug/L	U	U	
n-Nitrosodimethylamine	62759	0.472	0.472	0.0943	ug/L	U	U	
Phenanthrene	85018	0.472	0.472	0.0943	ug/L	U	U	
Pyrene	129000	0.472	0.472	0.142	ug/L	U	U	

Analysis Method 8270C SIM

Sample Name ILBS0249S002 **Matrix Type:** Soil **Result Type:** Primary Result
Lab Sample Name: 230952021 **Sample Date:** 6/3/2009 1:05:00 PM **Validation Level:** V

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
1-Methylnaphthalene	90120	18	18	5.39	ug/kg	U	U	
2-Methylnaphthalene	91576	18	18	3.59	ug/kg	U	U	
Acenaphthene	83329	18	18	6	ug/kg	U	U	
Acenaphthylene	208968	18	18	5.39	ug/kg	U	U	
Anthracene	120127	18	18	3.59	ug/kg	U	U	
Benzo(a)anthracene	56553	37.8	18	5.39	ug/kg			
Benzo(a)pyrene	50328	49.4	18	5.39	ug/kg			
Benzo(b)fluoranthene	205992	87.7	18	5.39	ug/kg			
Benzo(ghi)perylene	191242	25.8	18	5.39	ug/kg			
Benzo(k)fluoranthene	207089	18	18	5.39	ug/kg	U	U	
bis(2-ethylhexyl)phthalate	117817	21.3	18	5.93	ug/kg			
Butyl benzyl phthalate	85687	18	18	5.39	ug/kg	U	U	
Chrysene	218019	34.6	18	5.39	ug/kg			
Dibenzo(a,h)anthracene	53703	18	18	5.39	ug/kg	U	U	
Diethylphthalate	84662	18	18	5.39	ug/kg	U	U	
Dimethylphthalate	131113	18	18	5.39	ug/kg	U	U	
Di-n-butylphthalate	84742	6.59	18	5.39	ug/kg	J	J	
Di-n-octyl-phthalate	117840	18	18	5.39	ug/kg	U	U	
Fluoranthene	206440	26.1	18	5.39	ug/kg			
Fluorene	86737	18	18	5.39	ug/kg	U	U	
Indeno(1,2,3-cd)pyrene	193395	22.4	18	5.39	ug/kg			
Naphthalene	91203	18	18	5.39	ug/kg	U	U	
n-Nitrosodimethylamine	62759	18	18	3.59	ug/kg	U	U	
Phenanthrene	85018	18	18	5.39	ug/kg	U	U	
Pyrene	129000	35.9	18	5.64	ug/kg			

Analysis Method 8270C SIM

Sample Name ILBS0250S001 **Matrix Type:** Soil **Result Type:** Primary Result
Lab Sample Name: 230952019 **Sample Date:** 6/3/2009 12:45:00 PM **Validation Level:** V

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
1-Methylnaphthalene	90120	18.2	18.2	5.45	ug/kg	U	U	
2-Methylnaphthalene	91576	18.2	18.2	3.63	ug/kg	U	U	
Acenaphthene	83329	18.2	18.2	6.07	ug/kg	U	U	
Acenaphthylene	208968	18.2	18.2	5.45	ug/kg	U	U	
Anthracene	120127	18.2	18.2	3.63	ug/kg	U	U	
Benzo(a)anthracene	56553	18.2	18.2	5.45	ug/kg	U	U	
Benzo(a)pyrene	50328	18.2	18.2	5.45	ug/kg	U	U	
Benzo(b)fluoranthene	205992	18.2	18.2	5.45	ug/kg	U	U	
Benzo(ghi)perylene	191242	18.2	18.2	5.45	ug/kg	U	U	
Benzo(k)fluoranthene	207089	18.2	18.2	5.45	ug/kg	U	U	
bis(2-ethylhexyl)phthalate	117817	18.2	18.2	5.99	ug/kg	J	U	F, result changed from 12.5
Butyl benzyl phthalate	85687	18.2	18.2	5.45	ug/kg	U	U	
Chrysene	218019	18.2	18.2	5.45	ug/kg	U	U	
Dibenzo(a,h)anthracene	53703	18.2	18.2	5.45	ug/kg	U	U	
Diethylphthalate	84662	18.2	18.2	5.45	ug/kg	U	U	
Dimethylphthalate	131113	18.2	18.2	5.45	ug/kg	U	U	
Di-n-butylphthalate	84742	5.57	18.2	5.45	ug/kg	J	J	
Di-n-octyl-phthalate	117840	18.2	18.2	5.45	ug/kg	U	U	
Fluoranthene	206440	18.2	18.2	5.45	ug/kg	U	U	
Fluorene	86737	18.2	18.2	5.45	ug/kg	U	U	
Indeno(1,2,3-cd)pyrene	193395	18.2	18.2	5.45	ug/kg	U	U	
Naphthalene	91203	18.2	18.2	5.45	ug/kg	U	U	
n-Nitrosodimethylamine	62759	18.2	18.2	3.63	ug/kg	U	U	
Phenanthrene	85018	18.2	18.2	5.45	ug/kg	U	U	
Pyrene	129000	18.2	18.2	5.7	ug/kg	U	U	

Analysis Method 8270C SIM

Sample Name ILBS0251S001 **Matrix Type:** Soil **Result Type:** Primary Result
Lab Sample Name: 230952017 **Sample Date:** 6/3/2009 12:20:00 PM **Validation Level:** V

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
1-Methylnaphthalene	90120	17.5	17.5	5.25	ug/kg	U	U	
2-Methylnaphthalene	91576	17.5	17.5	3.5	ug/kg	U	U	
Acenaphthene	83329	17.5	17.5	5.84	ug/kg	U	U	
Acenaphthylene	208968	17.5	17.5	5.25	ug/kg	U	U	
Anthracene	120127	17.5	17.5	3.5	ug/kg	U	U	
Benzo(a)anthracene	56553	30.1	17.5	5.25	ug/kg			
Benzo(a)pyrene	50328	41.1	17.5	5.25	ug/kg			
Benzo(b)fluoranthene	205992	61	17.5	5.25	ug/kg			
Benzo(ghi)perylene	191242	19.6	17.5	5.25	ug/kg			
Benzo(k)fluoranthene	207089	17.5	17.5	5.25	ug/kg	U	U	
bis(2-ethylhexyl)phthalate	117817	21.5	17.5	5.77	ug/kg			
Butyl benzyl phthalate	85687	17.5	17.5	5.25	ug/kg	U	U	
Chrysene	218019	32	17.5	5.25	ug/kg			
Dibenzo(a,h)anthracene	53703	17.5	17.5	5.25	ug/kg	U	U	
Diethylphthalate	84662	17.5	17.5	5.25	ug/kg	U	U	
Dimethylphthalate	131113	17.5	17.5	5.25	ug/kg	U	U	
Di-n-butylphthalate	84742	5.93	17.5	5.25	ug/kg	J	J	
Di-n-octyl-phthalate	117840	17.5	17.5	5.25	ug/kg	U	U	
Fluoranthene	206440	39.4	17.5	5.25	ug/kg			
Fluorene	86737	17.5	17.5	5.25	ug/kg	U	U	
Indeno(1,2,3-cd)pyrene	193395	16.9	17.5	5.25	ug/kg	J	J	
Naphthalene	91203	17.5	17.5	5.25	ug/kg	U	U	
n-Nitrosodimethylamine	62759	17.5	17.5	3.5	ug/kg	U	U	
Phenanthrene	85018	17.5	17.5	5.25	ug/kg	U	U	
Pyrene	129000	42.6	17.5	5.49	ug/kg			

Analysis Method 8270C SIM

Sample Name ILBS0253S001 **Matrix Type:** Soil **Result Type:** Primary Result
Lab Sample Name: 230952013 **Sample Date:** 6/3/2009 10:55:00 AM **Validation Level:** V

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
1-Methylnaphthalene	90120	18.3	18.3	5.48	ug/kg	U	U	
2-Methylnaphthalene	91576	18.3	18.3	3.65	ug/kg	U	U	
Acenaphthene	83329	18.3	18.3	6.1	ug/kg	U	U	
Acenaphthylene	208968	18.3	18.3	5.48	ug/kg	U	U	
Anthracene	120127	18.3	18.3	3.65	ug/kg	U	U	
Benzo(a)anthracene	56553	18.3	18.3	5.48	ug/kg	U	U	
Benzo(a)pyrene	50328	18.3	18.3	5.48	ug/kg	U	U	
Benzo(b)fluoranthene	205992	18.3	18.3	5.48	ug/kg	U	U	
Benzo(ghi)perylene	191242	18.3	18.3	5.48	ug/kg	U	U	
Benzo(k)fluoranthene	207089	18.3	18.3	5.48	ug/kg	U	U	
bis(2-ethylhexyl)phthalate	117817	18.3	18.3	6.03	ug/kg	J	U	F, result changed from 15
Butyl benzyl phthalate	85687	18.3	18.3	5.48	ug/kg	U	U	
Chrysene	218019	18.3	18.3	5.48	ug/kg	U	U	
Dibenzo(a,h)anthracene	53703	18.3	18.3	5.48	ug/kg	U	U	
Diethylphthalate	84662	18.3	18.3	5.48	ug/kg	U	U	
Dimethylphthalate	131113	18.3	18.3	5.48	ug/kg	U	U	
Di-n-butylphthalate	84742	6.4	18.3	5.48	ug/kg	J	J	
Di-n-octyl-phthalate	117840	18.3	18.3	5.48	ug/kg	U	U	
Fluoranthene	206440	18.3	18.3	5.48	ug/kg	U	U	
Fluorene	86737	18.3	18.3	5.48	ug/kg	U	U	
Indeno(1,2,3-cd)pyrene	193395	18.3	18.3	5.48	ug/kg	U	U	
Naphthalene	91203	18.3	18.3	5.48	ug/kg	U	U	
n-Nitrosodimethylamine	62759	18.3	18.3	3.65	ug/kg	U	U	
Phenanthrene	85018	18.3	18.3	5.48	ug/kg	U	U	
Pyrene	129000	18.3	18.3	5.74	ug/kg	U	U	