

RECEIVED DECEMBER 30, 2010

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

0099307

TestAmerica Laboratories, Inc.

ANALYTICAL REPORT

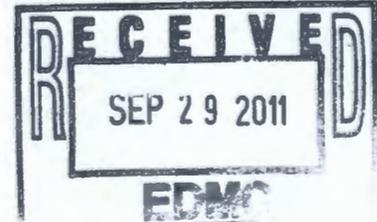
F11-040

Lot #: F0L220540

SDG #: SL1028

Mike Neely

CH2M Hill Plateau Remediation
PO Box 1500, MS B6-06
Richland, WA 99352



TESTAMERICA LABORATORIES, INC.

A handwritten signature in black ink, appearing to read "mcf", written over a light background.

Michael C. Franks
Project Manager

December 30, 2010

TestAmerica

CASE NARRATIVE

THE LEADER IN ENVIRONMENTAL TESTING

CH2M Hill Plateau Remediation Company
 P.O. Box 1600
 MS B3-60
 Richland, Washington 99352
 December 30, 2010
 Attention: Mike Neely

TestAmerica Laboratories, Inc.

SDG	: SL1028
Number of Samples	: two samples
Sample Matrix	: Water
Data Deliverable	: Summary
Date SDG Closed	: December 22, 2010

II. Introduction

On December 22, 2010, two water samples were received by TestAmerica - St. Louis for chemical analysis. The samples were received within temperature criteria. See the COC and CUR forms for documentation of any variations on receipt conditions and temperature. Upon receipt, the samples were given laboratory Ids to correspond with specific client Ids. Please refer to the Sample Summary sheets attached to this case narrative. This report is incomplete without the narrative.

The following SAFs are associated with this SDG: F11-040

III. Analytical Results/ Methodology

The analytical results for this report are presented by analytical test. Each set of data includes sample identification information, analytical results and the appropriate detection limits. All results are based upon samples as they were received, i.e. wet weight, unless otherwise noted on the data sheets. See the attached Methods Summary Form for the methods used in this SDG.

MS/MSD/Dup analysis was done per the client requirements. Analytical batches that did not contain matrix QC were analyzed with a LCS/LCS duplicate.

Deviation from Request: None

IV. Definitions

QCBLK-	Quality Control Blank, Method Blank
QCLCS-	Quality Control Laboratory Control Sample, Blank Spike
DUP-	Laboratory Duplicate
MS-	Matrix Spike
MSD-	Matrix Spike Duplicate

The term "Detection Limit" used in the analytical data report refers to either the lab's standard reporting limits or contractually required reporting limits, whichever is applicable.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

CH2M Hill Plateau Remediation Company

December 30, 2010

SDG: SL1028

TestAmerica Laboratories, Inc.

The following data qualifiers may be applicable to the results in this report, as appropriate.

- **B** – For inorganic analyses, the sample result is greater than the MDL but less than the RL.
- **B** – For organic analyses, Method Blank contamination. The Method Blank contains the target analyte at a concentration above the MDL.
- **J** – For organic analyses, the sample is estimated and less than the RL.
- **C** – For inorganic analyses, Method Blank contamination. The Method Blank contains the target analyte at a concentration above the MDL.
- **D** – For all analyses, the sample result was obtained from the analysis of a dilution.
- **N** – For inorganics and GC analyses, the spike/spike duplicate recoveries are outside QC limits.
- **T** – For GCMS analyses, the spike/spike duplicate recoveries are outside QC limits.

PCBs

Batch: 0357215

To perform an MS/MSD on a sample for organic extractables, the laboratory requires 3 liters of sample. To allow for possible re-extraction, the laboratory performed the MS/MSD extraction using half volume.

Affected Samples:

F0L220540 (1): B2B4X5

F0L220540 (2): B2B4X7

The CCV surrogate recovery in VCAL 387 is outside the QC limits of greater than 20%D. The excursion occurred in the secondary column. This column will only be used for confirmation and no data will be reported from it.

Affected Samples:

F0L220540 (1): B2B4X5

F0L220540 (2): B2B4X7

ICPMS Metals

Batch: 0362374

The Low Level Check recovery for Zinc is outside the upper QC limit, indicating a potential positive bias for that analyte. This analyte was not detected above the method detection limit, indicating that the samples were not affected by this excursion.

Affected Samples:

F0L220540 (1): B2B4X5

F0L220540 (2): B2B4X7

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

CH2M Hill Plateau Remediation Company

December 30, 2010

SDG: SL1028

TestAmerica Laboratories, Inc.

Mercury

Batch: 0363064

The MS/MSD recovery for Mercury is outside the established QC limits. The RPD is within method acceptance criteria indicating a possible matrix interference. Method performance is demonstrated by acceptable LCS recovery.

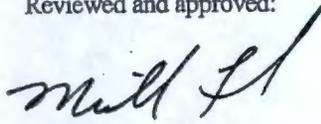
Affected Samples:

FOL220540 (1): B2B4X5

FOL220540 (2): B2B4X7

I certify that this Summary Package is in compliance with the SOW, both technically and for completeness, for other than the conditions detailed above. The Laboratory Manager or a designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Reviewed and approved:



Michael Franks
St. Louis Project Manager

METHODS SUMMARY

F0L220540

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>	<u>PREPARATION METHOD</u>
ICP-MS (6020)	SW846 6020	
Mercury in Liquid Waste (Manual Cold-Vapor)	SW846 7470A	SW846 7470A
PCBs by SW-846 8082	SW846 8082	SW846 3510C

References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

F0L220540

<u>WO #</u>	<u>SAMPLE#</u>	<u>CLIENT SAMPLE ID</u>	<u>SAMPLED DATE</u>	<u>SAMP TIME</u>
MCP66	001	B2B4X5	12/19/10	07:05
MCPQJ	002	B2B4X7	12/19/10	10:30

NOTE (S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

SDG# SL1028

cut

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F11-040-012

PAGE 1 OF 2

COLLECTOR <i>Chamborlain</i>		COMPANY CONTACT WIDRIG, DL	TELEPHONE NO. 376-2858	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE C01	DATA TURNAROUND 12 Days / 12 Days
SAMPLING LOCATION 600-287-PL EB 1 (Day 1) <i>87866</i>		PROJECT DESIGNATION 600-287-PL - QC Sampling		SAF NO. F11-040	AIR QUALITY <input type="checkbox"/>	
ICE CHEST NO. <i>GWS-102</i>		FIELD LOGBOOK NO. <i>HNF-N-507-16</i>	ACTUAL SAMPLE DEPTH <i>N/A</i>	COA 302560ES10	METHOD OF SHIPMENT FEDERAL EXPRESS	
SHIPPED TO TestAmerica St. Louis		OFFSITE PROPERTY NO. SEE PTR		BILL OF LADING/AIR BILL NO. <i>SEE PTR bb 122110 7942 4609 9955</i>		

MATRIX* A=Air DL=Drum Liquids DS=Drum Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Wipe X=Other	POSSIBLE SAMPLE HAZARDS/ REMARKS Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)	PRESERVATION	Cool-4C	HNO3 to pH <2
		HOLDING TIME	1 yr/1 yr	28 Days
		TYPE OF CONTAINER	aG	G/P
		NO. OF CONTAINER(S)	3	1
		VOLUME	1L	500mL
SPECIAL HANDLING AND/OR STORAGE		SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B2B4X5	WATER	<i>12-19-10</i>	<i>0705</i>	<i>X</i>	<i>X</i>

CHAIN OF POSSESSION		SIGN/ PRINT NAMES		SPECIAL INSTRUCTIONS
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS
<i>Greg Chamborlain</i>	<i>12-19-10 / 0742</i>	<i>SSU #1</i>	<i>12-19-10 0742</i>	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
<i>SSU-1</i>	<i>0800 DEC 21 2010</i>	<i>SE Hamaker</i>	<i>0800 DEC 21 2010</i>	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
<i>SE Hamaker</i>	<i>DEC 21 2010 1400</i>	<i>CHPRC</i>	<i>DEC 21 2010</i>	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
<i>RDE</i>		<i>FED EX</i>		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
		<i>SINSON</i>	<i>12-22-10 1100</i>	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	

 ORIGINAL

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

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TestAmerica St. Louis

541028

SDB# 541028

CH2M Hill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F11-040-012	PAGE 2 OF 2
COLLECTOR <i>Chamberlain</i>	COMPANY CONTACT WIDRIG, DL	TELEPHONE NO. 376-2858	PROJECT COORDINATOR WIDRIG, DL		PRICE CODE C01	DATA TURNAROUND 12 Days / 12 Days
SAMPLING LOCATION 600-287-PL EB 1 (Day 1)	PROJECT DESIGNATION 600-287-PL - QC Sampling		SAF NO. F11-040		AIR QUALITY <input type="checkbox"/>	
ICE CHEST NO. <i>GWS-102</i>	FIELD LOGBOOK NO. <i>LWF-N-507-76</i>	ACTUAL SAMPLE DEPTH <i>N/A</i>	COA 302560ES10	METHOD OF SHIPMENT FEDERAL EXPRESS		
SHIPPED TO TestAmerica St. Louis	OFFSITE PROPERTY NO. SEE PTR	BILL OF LADING/AIR BILL NO. <i>SEE PTR 12/21/10 7942 4609 9955</i>				

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF. □ ** The laboratory shall report only the requested constituents of concern in all final data reports, and EDDs. QC results for non-requested constituents need not be reported, but samples chosen for matrix spike, and all spike compounds shall be identified in the final data report case narrative. No TICs shall be reported. □ ** Per previous written agreement, the Laboratories shall report all final data for this sampling event on or before December 30, 2010. Contact the Project Coordinator for questions.

- (1) PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260, Aroclor-1262, Aroclor-1268};
- (2) Mercury - 7470 - (CV) {Mercury}; ICP Metals - 6020 (TAL) {Antimony, Barium, Cadmium, Chromium, Manganese, Zinc}; ICP Metals - 6020 (Add-on) {Arsenic, Lead};

Original

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SL1028

SDG# SL1028

CH2M Hill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F11-040-014	PAGE 1 OF 2
COLLECTOR <i>Chamberlain</i>		COMPANY CONTACT WIDRIG, DL	TELEPHONE NO. 376-2858	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE C01	DATA TURNAROUND 12 Days / 12 Days
SAMPLING LOCATION 600-287-PL FB 1		PROJECT DESIGNATION 600-287-PL - QC Sampling		SAF NO. F11-040	AIR QUALITY <input type="checkbox"/>	
ICE CHEST NO. <i>GWS-102</i>		FIELD LOGBOOK NO. <i>HNF-N-507-16</i>	ACTUAL SAMPLE DEPTH <i>N/A</i>	COA 302560ES10	METHOD OF SHIPMENT FEDERAL EXPRESS	
SHIPPED TO TestAmerica St. Louis		OFFSITE PROPERTY NO. SEE PTR		BILL OF LADING/AIR BILL NO. SEE PTR <i>12/21/10</i> <i>7942 4609 9955</i>		

MATRIX* A=Air DL=Drum Liquids DS=Drum Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Wipe X=Other	POSSIBLE SAMPLE HAZARDS/ REMARKS	PRESERVATION	Cool~4C	HNO3 to pH <2
	Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)	HOLDING TIME	1 yr/1 yr	28 Days
	SPECIAL HANDLING AND/OR STORAGE	TYPE OF CONTAINER	aG	G/P
		NO. OF CONTAINER(S)	3	1
		VOLUME	1L	500mL
	SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS	

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B2B4X7	WATER	12-19-10	1030	X	X

CHAIN OF POSSESSION	SIGN/ PRINT NAMES	SPECIAL INSTRUCTIONS
RELINQUISHED BY/REMOVED FROM <i>Craig Chamberlain</i>	RECEIVED BY/STORED IN <i>SSU-1</i>	SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS <div style="text-align: center; font-size: 2em; font-weight: bold;">ORIGINAL</div>
DATE/TIME <i>12-19-10 1621</i>	DATE/TIME <i>12/19/10 1621</i>	
RELINQUISHED BY/REMOVED FROM <i>SSU-1</i>	RECEIVED BY/STORED IN <i>SE Hamaker</i>	
DATE/TIME <i>0800 DEC 21 2010</i>	DATE/TIME <i>0800 DEC 21 2010</i>	
RELINQUISHED BY/REMOVED FROM <i>SE Hamaker</i>	RECEIVED BY/STORED IN <i>CHPRC</i>	
DATE/TIME <i>1400 DEC 21 2010</i>	DATE/TIME <i>1400 DEC 21 2010</i>	
RELINQUISHED BY/REMOVED FROM <i>CHPRC</i>	RECEIVED BY/STORED IN <i>FED EX</i>	
DATE/TIME <i>1400 DEC 21 2010</i>	DATE/TIME <i>1400 DEC 21 2010</i>	
RELINQUISHED BY/REMOVED FROM <i>Rox</i>	RECEIVED BY/STORED IN <i>SWilson</i>	
DATE/TIME <i>1400 DEC 21 2010</i>	DATE/TIME <i>12-22-10 1150</i>	
RELINQUISHED BY/REMOVED FROM	RECEIVED BY/STORED IN	
RELINQUISHED BY/REMOVED FROM	RECEIVED BY/STORED IN	
RELINQUISHED BY/REMOVED FROM	RECEIVED BY/STORED IN	

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

TestAmerica St. Louis

SL1028

SBG# S11028

CH2M Hill Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F11-040-014

PAGE 2 OF 2

COLLECTOR *Chamberlain*

COMPANY CONTACT
WIDRIG, DL

TELEPHONE NO.
376-2858

PROJECT COORDINATOR
WIDRIG, DL

PRICE CODE C01

DATA
TURNAROUND

SAMPLING LOCATION
600-287-PL FB 1

PROJECT DESIGNATION
600-287-PL - QC Sampling

SAF NO.
F11-040

AIR QUALITY

12 Days / 12
Days

ICE CHEST NO.
GWS-102

FIELD LOGBOOK NO.
HNF-N-50716

ACTUAL SAMPLE DEPTH
N/A

COA
302560ES10

METHOD OF SHIPMENT
FEDERAL EXPRESS

SHIPPED TO
TestAmerica St. Louis

OFFSITE PROPERTY NO.
SEE PTR

BILL OF LADING/AIR BILL NO.
SEE PTR *12/21/10 7942 4609 9955*

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF. ** The laboratory shall report only the requested constituents of concern in all final data reports, and EDDs. QC results for non-requested constituents need not be reported, but samples chosen for matrix spike, and all spike compounds shall be identified in the final data report case narrative. No TICs shall be reported. ** Per previous written agreement, the Laboratories shall report all final data for this sampling event on or before December 30, 2010. Contact the Project Coordinator for questions.

- (1) PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260, Aroclor-1262, Aroclor-1268};
- (2) Mercury - 7470 - (CV) {Mercury}; ICP Metals - 6020 (TAL) {Antimony, Barium, Cadmium, Chromium, Manganese, Zinc}; ICP Metals - 6020 (Add-on) {Arsenic, Lead};

 ORIGINAL

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Detailed Results

Tracking no.: 794246099955 Select time format: 12H

Delivered	Delivered Signed for by: J.CLARK
Shipment Dates	Destination
Ship date Dec 21, 2010	EARTH CITY, MO
Delivery date Dec 22, 2010 10:51 AM	Signature Proof of Delivery

Shipment Options

Hold at FedEx Location
Hold at FedEx Location service is not available for this shipment.

Shipment Facts

Service type	Priority Overnight	Delivered to	Shipping/Receiving
Weight	119.0 lbs/54.0 kg	Reference	GWS-102

Shipment Travel History

Select time zone: Local Scan Time

All shipment travel activity is displayed in local time for the location

Date/Time	Activity	Location	Details
Dec 22, 2010 10:51 AM	Delivered	EARTH CITY, MO	
Dec 22, 2010 9:14 AM	On FedEx vehicle for delivery	EARTH CITY, MO	
Dec 22, 2010 9:07 AM	At local FedEx facility	EARTH CITY, MO	
Dec 22, 2010 7:01 AM	At dest sort facility	BERKELEY, MO	
Dec 22, 2010 6:12 AM	Departed FedEx location	MEMPHIS, TN	
Dec 22, 2010 1:42 AM	Arrived at FedEx location	MEMPHIS, TN	
Dec 21, 2010 5:24 PM	Left FedEx origin facility	PASCO, WA	
Dec 21, 2010 3:27 PM	Picked up	PASCO, WA	
Dec 21, 2010 10:51 AM	Shipment information sent to FedEx		

Lot #(s): FOL 220520

529

532

534

540

540 ^{SV} 12.22.10

555

562

CONDITION UPON RECEIPT FORM

Client: CH2M Hill / PRC

Quote No: 87857, 87877, 87875, 87836, 87850, 87587, 87598, 87651

COC/RFA No: 224

Initiated By: [Signature]

Date: 12.22.10

Time: 1100

Shipping Information

Shipper: FedEx UPS DHL Courier Client Other: _____ Multiple Packages: Y N

Shipping # (s):*

Sample Temperature (s):**

1. 7965 8429 6850

2. 7942 4948 2331

3. 4609 9955

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

1. 3

2. 4

3. 2

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

*Numbered shipping lines correspond to Numbered Sample Temp lines

**Sample must be received at 4°C ± 2°C. If not, note contents below. Temperature variance does NOT affect the following: Metals-Liquid or Rad tests- Liquid or Solids

Condition (Circle "Y" for yes, "N" for no and "N/A" for not applicable):

1. <input checked="" type="radio"/> Y <input type="radio"/> N	Are there custody seals present on the cooler?	8. <input checked="" type="radio"/> Y <input type="radio"/> N	Are there custody seals present on bottles?
2. <input type="radio"/> Y <input checked="" type="radio"/> N <input type="radio"/> N/A	Do custody seals on cooler appear to be tampered with?	9. <input type="radio"/> Y <input checked="" type="radio"/> N <input type="radio"/> N/A	Do custody seals on bottles appear to be tampered with?
3. <input checked="" type="radio"/> Y <input type="radio"/> N	Were contents of cooler frisked after opening, but before unpacking?	10. <input checked="" type="radio"/> Y <input type="radio"/> N <input type="radio"/> N/A	Was sample received with proper pH? (If not, make note below)
4. <input checked="" type="radio"/> Y <input type="radio"/> N	Sample received with Chain of Custody?	11. <input checked="" type="radio"/> Y <input type="radio"/> N	Sample received in proper containers?
5. <input checked="" type="radio"/> Y <input type="radio"/> N <input type="radio"/> N/A	Does the Chain of Custody match sample ID's on the container(s)?	12. <input type="radio"/> Y <input checked="" type="radio"/> N <input type="radio"/> N/A	Headspace in VOA or TOX liquid samples? (If Yes, note sample ID's below)
6. <input type="radio"/> Y <input checked="" type="radio"/> N	Was sample received broken?	13. <input type="radio"/> Y <input type="radio"/> N <input checked="" type="radio"/> N/A	Was Internal COC/Workshare received?
7. <input checked="" type="radio"/> Y <input type="radio"/> N	Is sample volume sufficient for analysis?	14. <input type="radio"/> Y <input type="radio"/> N <input checked="" type="radio"/> N/A	Was pH taken by original TestAmerica lab?

¹ For DOE-AL (Pantex, LANL, Sandia) sites, pH of ALL containers received must be verified, EXCEPT VOA, TOX and soils.

Notes:

F11-039, 080, 096, 092, 088, 084, 076, 072, 100, 104, 048, 062, 096, 060

W11-012

I11-008

F11-003

F11-040, 012, 014

X11-006

I11-001-669, 470

F11-012-039, 033, 038

Corrective Action:

- Client Contact Name: _____
- Sample(s) processed "as is"
- Sample(s) on hold until: _____
- Project Management Review: [Signature]

Informed by: _____

If released, notify: _____

Date: 12.27.10

THIS FORM MUST BE COMPLETED AT THE TIME THE ITEMS ARE BEING CHECKED IN. IF ANY ITEM IS COMPLETED BY SOMEONE OTHER THAN THE INITIATOR, THEN THAT PERSON IS REQUIRED TO APPLY THEIR INITIAL AND THE DATE NEXT TO THAT ITEM.

PCBs

CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2B4X5

GC Semivolatiles

Lot-Sample #...: F0L220540-001 Work Order #...: MCPP61AM Matrix.....: WATER
 Date Sampled...: 12/19/10 Date Received...: 12/22/10
 Prep Date.....: 12/23/10 Analysis Date...: 12/30/10
 Prep Batch #...: 0357215
 Dilution Factor: 1 Method.....: SW846 8082

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
Aroclor 1016	ND	1.0	ug/L	0.084
Aroclor 1221	ND	1.0	ug/L	0.084
Aroclor 1232	ND	1.0	ug/L	0.084
Aroclor 1242	ND	1.0	ug/L	0.084
Aroclor 1248	ND	1.0	ug/L	0.084
Aroclor 1254	ND	1.0	ug/L	0.084
Aroclor 1260	ND	1.0	ug/L	0.084
Aroclor 1262	ND	1.0	ug/L	0.084
Aroclor 1268	ND	1.0	ug/L	0.084

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Decachlorobiphenyl	116	(51 - 147)

CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2B4X7

GC Semivolatiles

Lot-Sample #....: FOL220540-002 Work Order #....: MCPQJ1AM Matrix.....: WATER
 Date Sampled....: 12/19/10 Date Received...: 12/22/10
 Prep Date.....: 12/23/10 Analysis Date...: 12/30/10
 Prep Batch #....: 0357215
 Dilution Factor: 1 Method.....: SW846 8082

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
Aroclor 1016	ND	1.0	ug/L	0.084
Aroclor 1221	ND	1.0	ug/L	0.084
Aroclor 1232	ND	1.0	ug/L	0.084
Aroclor 1242	ND	1.0	ug/L	0.084
Aroclor 1248	ND	1.0	ug/L	0.084
Aroclor 1254	ND	1.0	ug/L	0.084
Aroclor 1260	ND	1.0	ug/L	0.084
Aroclor 1262	ND	1.0	ug/L	0.084
Aroclor 1268	ND	1.0	ug/L	0.084

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Decachlorobiphenyl	118	(51 - 147)

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: FOL220540
 MB Lot-Sample #: FOL230000-215

Work Order #...: MCQ4F1AA

Matrix.....: WATER

Analysis Date...: 12/30/10

Prep Date.....: 12/23/10

Dilution Factor: 1

Prep Batch #...: 0357215

PARAMETER	RESULT	REPORTING		METHOD
		LIMIT	UNITS	
Aroclor 1016	ND	1.0	ug/L	SW846 8082
Aroclor 1221	ND	1.0	ug/L	SW846 8082
Aroclor 1232	ND	1.0	ug/L	SW846 8082
Aroclor 1242	ND	1.0	ug/L	SW846 8082
Aroclor 1248	ND	1.0	ug/L	SW846 8082
Aroclor 1254	ND	1.0	ug/L	SW846 8082
Aroclor 1260	ND	1.0	ug/L	SW846 8082
Aroclor 1262	ND	1.0	ug/L	SW846 8082
Aroclor 1268	ND	1.0	ug/L	SW846 8082

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Decachlorobiphenyl	84	(51 - 147)

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #....: F0L220540 Work Order #....: MCQ4F1AC Matrix.....: WATER
 LCS Lot-Sample#: F0L230000-215
 Prep Date.....: 12/23/10 Analysis Date...: 12/30/10
 Prep Batch #....: 0357215
 Dilution Factor: 1

<u>PARAMETER</u>	<u>SPIKE</u> <u>AMOUNT</u>	<u>MEASURED</u> <u>AMOUNT</u>	<u>UNITS</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>METHOD</u>
Aroclor 1016	5.00	4.37	ug/L	87	SW846 8082
Aroclor 1260	5.00	5.25	ug/L	105	SW846 8082
<u>SURROGATE</u>		<u>PERCENT</u> <u>RECOVERY</u>		<u>RECOVERY</u> <u>LIMITS</u>	
Decachlorobiphenyl		121		(64 - 140)	

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.
 Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: F0L220540 Work Order #...: MCPQJ1A9-MS Matrix.....: WATER
 MS Lot-Sample #: F0L220540-002 MCPQJ1CA-MSD
 Date Sampled...: 12/19/10 Date Received...: 12/22/10
 Prep Date.....: 12/23/10 Analysis Date...: 12/30/10
 Prep Batch #...: 0357215
 Dilution Factor: 1.98

PARAMETER	SAMPLE	SPIKE	MEASRD	UNITS	PERCNT		METHOD
	AMOUNT	AMT	AMOUNT		RECVRY	RPD	
Aroclor 1016	ND	9.94	8.62	ug/L	87		SW846 8082
	ND	9.75	8.60	ug/L	88	0.24	SW846 8082
Aroclor 1260	ND	9.94	10.0	ug/L	101		SW846 8082
	ND	9.75	9.52	ug/L	98	5.4	SW846 8082

SURROGATE	PERCENT		RECOVERY
	RECOVERY	LIMITS	
Decachlorobiphenyl	118	(51 - 147)	
	106	(51 - 147)	

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

METALS

CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2B4X5

TOTAL Metals

Lot-Sample #...: FOL220540-001
 Date Sampled...: 12/19/10

Date Received...: 12/22/10

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 0362374						
Arsenic	ND	10.0	ug/L	SW846 6020	12/28-12/30/10	MCPP61AC
		Dilution Factor: 1		MDL.....: 0.95		
Barium	ND	2.0	ug/L	SW846 6020	12/28-12/30/10	MCPP61AD
		Dilution Factor: 1		MDL.....: 0.20		
Cadmium	ND	0.50	ug/L	SW846 6020	12/28-12/30/10	MCPP61AE
		Dilution Factor: 1		MDL.....: 0.055		
Chromium	ND	10.0	ug/L	SW846 6020	12/28-12/30/10	MCPP61AA
		Dilution Factor: 1		MDL.....: 3.3		
Manganese	ND	2.0	ug/L	SW846 6020	12/28-12/30/10	MCPP61AF
		Dilution Factor: 1		MDL.....: 0.24		
Lead	ND	3.0	ug/L	SW846 6020	12/28-12/30/10	MCPP61AG
		Dilution Factor: 1		MDL.....: 0.17		
Antimony	ND	5.0	ug/L	SW846 6020	12/28-12/30/10	MCPP61AH
		Dilution Factor: 1		MDL.....: 1.1		
Zinc	ND	10.0	ug/L	SW846 6020	12/28-12/30/10	MCPP61AJ
		Dilution Factor: 1		MDL.....: 8.3		
Prep Batch #...: 0363064						
Mercury	0.056 B,N	0.20	ug/L	SW846 7470A	12/29/10	MCPP61AL
		Dilution Factor: 1		MDL.....: 0.050		

NOTE(S):

B Estimated result. Result is less than RL.

N Spiked analyte recovery is outside stated control limits.

CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2B4X7

TOTAL Metals

Lot-Sample #...: F0L220540-002

Matrix.....: WATER

Date Sampled...: 12/19/10

Date Received...: 12/22/10

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
		LIMIT	UNITS			
Prep Batch #...: 0362374						
Arsenic	ND	10.0	ug/L	SW846 6020	12/28-12/30/10	MCPQJ1AC
		Dilution Factor: 1		MDL.....: 0.95		
Barium	ND	2.0	ug/L	SW846 6020	12/28-12/30/10	MCPQJ1AD
		Dilution Factor: 1		MDL.....: 0.20		
Cadmium	ND	0.50	ug/L	SW846 6020	12/28-12/30/10	MCPQJ1AE
		Dilution Factor: 1		MDL.....: 0.055		
Chromium	ND	10.0	ug/L	SW846 6020	12/28-12/30/10	MCPQJ1AA
		Dilution Factor: 1		MDL.....: 3.3		
Manganese	ND	2.0	ug/L	SW846 6020	12/28-12/30/10	MCPQJ1AF
		Dilution Factor: 1		MDL.....: 0.24		
Lead	ND	3.0	ug/L	SW846 6020	12/28-12/30/10	MCPQJ1AG
		Dilution Factor: 1		MDL.....: 0.17		
Antimony	ND	5.0	ug/L	SW846 6020	12/28-12/30/10	MCPQJ1AH
		Dilution Factor: 1		MDL.....: 1.1		
Zinc	ND	10.0	ug/L	SW846 6020	12/28-12/30/10	MCPQJ1AJ
		Dilution Factor: 1		MDL.....: 8.3		
Prep Batch #...: 0363064						
Mercury	ND N	0.20	ug/L	SW846 7470A	12/29/10	MCPQJ1AL
		Dilution Factor: 1		MDL.....: 0.050		

NOTE(S):

N Spiked analyte recovery is outside stated control limits.

METHOD BLANK REPORT

TOTAL Metals

Client Lot #....: FOL220540

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: FOL280000-374 Prep Batch #....: 0362374						
Antimony	ND	5.0	ug/L	SW846 6020	12/28-12/30/10	MCT7R1AH
		Dilution Factor: 1				
Arsenic	ND	10.0	ug/L	SW846 6020	12/28-12/30/10	MCT7R1AC
		Dilution Factor: 1				
Barium	ND	2.0	ug/L	SW846 6020	12/28-12/30/10	MCT7R1AD
		Dilution Factor: 1				
Cadmium	ND	0.50	ug/L	SW846 6020	12/28-12/30/10	MCT7R1AE
		Dilution Factor: 1				
Chromium	ND	10.0	ug/L	SW846 6020	12/28-12/30/10	MCT7R1AA
		Dilution Factor: 1				
Lead	ND	3.0	ug/L	SW846 6020	12/28-12/30/10	MCT7R1AG
		Dilution Factor: 1				
Manganese	ND	2.0	ug/L	SW846 6020	12/28-12/30/10	MCT7R1AF
		Dilution Factor: 1				
Zinc	ND	10.0	ug/L	SW846 6020	12/28-12/30/10	MCT7R1AJ
		Dilution Factor: 1				
MB Lot-Sample #: FOL290000-064 Prep Batch #....: 0363064						
Mercury	ND	0.20	ug/L	SW846 7470A	12/29/10	MCVJ31AA
		Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: F0L220540

Matrix.....: WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: F0L280000-374 Prep Batch #...: 0362374							
Chromium	1000	923	ug/L	92	SW846 6020	12/28-12/30/10	MCT7R1AK
			Dilution Factor: 1				
Arsenic	1000	1010	ug/L	101	SW846 6020	12/28-12/30/10	MCT7R1AL
			Dilution Factor: 1				
Barium	1000	921	ug/L	92	SW846 6020	12/28-12/30/10	MCT7R1AM
			Dilution Factor: 1				
Cadmium	1000	950	ug/L	95	SW846 6020	12/28-12/30/10	MCT7R1AN
			Dilution Factor: 1				
Manganese	1000	960	ug/L	96	SW846 6020	12/28-12/30/10	MCT7R1AP
			Dilution Factor: 1				
Lead	1000	967	ug/L	97	SW846 6020	12/28-12/30/10	MCT7R1AQ
			Dilution Factor: 1				
Antimony	500	482	ug/L	96	SW846 6020	12/28-12/30/10	MCT7R1AR
			Dilution Factor: 1				
Zinc	1000	982	ug/L	98	SW846 6020	12/28-12/30/10	MCT7R1AT
			Dilution Factor: 1				
LCS Lot-Sample#: F0L290000-064 Prep Batch #...: 0363064							
Mercury	1.00	1.04	ug/L	104	SW846 7470A	12/29/10	MCVJ31AC
			Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: F0L220540

Matrix.....: WATER

Date Sampled...: 12/19/10

Date Received...: 12/22/10

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
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MS Lot-Sample #: F0L220540-002 Prep Batch #...: 0362374

Antimony

ND	500	485	ug/L	97			SW846 6020	12/28-12/30/10	MCPQJ1A3
ND	500	489	ug/L	98	0.87		SW846 6020	12/28-12/30/10	MCPQJ1A4

Dilution Factor: 1

Arsenic

ND	1000	989	ug/L	99			SW846 6020	12/28-12/30/10	MCPQJ1AQ
ND	1000	993	ug/L	99	0.41		SW846 6020	12/28-12/30/10	MCPQJ1AR

Dilution Factor: 1

Barium

ND	1000	925	ug/L	93			SW846 6020	12/28-12/30/10	MCPQJ1AT
ND	1000	918	ug/L	92	0.72		SW846 6020	12/28-12/30/10	MCPQJ1AU

Dilution Factor: 1

Cadmium

ND	1000	955	ug/L	95			SW846 6020	12/28-12/30/10	MCPQJ1AV
ND	1000	959	ug/L	96	0.47		SW846 6020	12/28-12/30/10	MCPQJ1AW

Dilution Factor: 1

Chromium

ND	1000	943	ug/L	94			SW846 6020	12/28-12/30/10	MCPQJ1AN
ND	1000	948	ug/L	95	0.56		SW846 6020	12/28-12/30/10	MCPQJ1AP

Dilution Factor: 1

Lead

ND	1000	973	ug/L	97			SW846 6020	12/28-12/30/10	MCPQJ1A1
ND	1000	983	ug/L	98	1.0		SW846 6020	12/28-12/30/10	MCPQJ1A2

Dilution Factor: 1

Manganese

ND	1000	947	ug/L	95			SW846 6020	12/28-12/30/10	MCPQJ1AX
ND	1000	955	ug/L	96	0.85		SW846 6020	12/28-12/30/10	MCPQJ1A0

Dilution Factor: 1

Zinc

ND	1000	969	ug/L	97			SW846 6020	12/28-12/30/10	MCPQJ1A5
ND	1000	987	ug/L	99	1.8		SW846 6020	12/28-12/30/10	MCPQJ1A6

Dilution Factor: 1

MS Lot-Sample #: F0L220540-002 Prep Batch #...: 0363064

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: F0L220540

Matrix.....: WATER

Date Sampled...: 12/19/10

Date Received...: 12/22/10

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Mercury									
	ND	1.00	0.264 N	ug/L	26		SW846 7470A	12/29/10	MCPQJ1A7
	ND	1.00	0.277 N	ug/L	28	4.8	SW846 7470A	12/29/10	MCPQJ1A8

Dilution Factor: 1

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

N Spiked analyte recovery is outside stated control limits.