RECEIVED SEPTEMBER 11, 2010

0101464

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

ANALYTICAL REPORT

Iron Oxide Samples

Lot #: F0H270477

SDG#: SL953

BOC 09/15/10

Mikael Nersesyan

Rockwood Pigments NA, Inc.
PO Box 16309
303 East Hoffmeister
St. Louis, MO 63125

TESTAMERICA LABORATORIES, INC.

RECEIVED
FEB 02 2012
EDMC

Michael C. Franks
Project Manager

September 11, 2010

13715 Rider Trail North Earth City, MO 63045 tel 314.298.8566 fax 314.298.8757 www.testamericainc.com

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

CASE NARRATIVE

CH2MHill Plateau Remediation Company
P.O. Box 1600
MS B3-60
Richland, Washington 99352
September 11, 2010
Attention: Mike Neely

TestAmerica Laboratories, Inc.

SDG	: SL953
Number of Samples	: four samples
Sample Matrix	: Water
Data Deliverable	: Summary
Date SDG Closed	: July 29, 2010

II. Introduction

Between July 27, 2010 and July 29, 2010, four 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: X10-081

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.

13715 Rider Trail North Earth City, MO 63045 tel 314.298.8566 fax 314.298.8757 www.testamericainc.com

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CH2M Hill Plateau Remediation Company
September 11, 2010
SDG: SL953

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.

Volatiles

Batch: 0210421

The CCV %D is (higher recovered) outside the Method criteria (greater than 20% D) for Chloromethane (21.6%), Bromomethane (87.1%), Iodomethane (84.0%), and Acetone (32.3%), indicating a potential high bias for these analytes in the samples associated with this CCV. These analytes were not detected above the reporting limit in the associated samples with the exception of Bromomethane and Iodomethane in F0G270477 (1): B26650 which was reanalyzed outside hold time with acceptable CCV recoveries. Per Issue Resolution Form 10-212, the proposed resolution to report only the original analysis in both the hard copy and EDD was accepted and has been reported for your review.
Affected Samples:
F0G270477 (1): B26650
F0G270477 (2): B265K6

The LCS recoveries for Bromomethane, Iodomethane and Acetone are outside the upper QC limits, indicating a potential positive bias for these analytes. Acetone was not detected above the reporting limit in the associated samples. Bromomethane and Iodomethane were detected in sample F0G270477 (1): B22650 above the reporting limit and were reanalyzed with acceptable LCS/LCSD recoveries. Sample was reanalyzed outside the hold time. Per Issue Resolution Form 10-212, the proposed resolution to report only the original analysis in both the hard copy and EDD was accepted and has been reported for your review.
Affected Samples:
F0G270477 (1): B26650
F0G270477 (2): B265K6

The MSD recovery for Iodomethane is outside of the upper QC limits. This analyte was not detected above the reporting limit in F0G270477 (2): B265K6; however, sample result was above reporting limit in F0G270477 (1): B26650. Sample was reanalyzed outside the hold time. Per Issue Resolution Form 10-212, the proposed resolution to report only the original analysis in both the hard copy and EDD was accepted and has been reported for your review. This analyte has been qualified accordingly with a "T" flag in the associated samples.
Affected Samples:
F0G270477 (1): B26650
F0G270477 (2): B265K6

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

CH2M Hill Plateau Remediation Company

September 11, 2010
SDG: SL953

TestAmerica Laboratories, Inc.

Batch: 0221351

Bromomethane, Iodomethane and Carbon disulfide were detected in the method blank above the method detection limit but below the reporting limit. These analytes have been qualified accordingly with a "B" flag in the associated samples.
Affected Samples:
F0G280554 (1): B265X6
F0G290510 (1): B265T0

The CCV %D is (higher recovered) outside the Method criteria (greater than 20% D) for Chloromethane (33.3%), Bromomethane (95.2%), Iodomethane (54.5%) and Acetone (37.3%), indicating a potential high bias for these analytes in the samples associated with this CCV. These analytes were not detected above the reporting limit in the associated samples.
Affected Samples:
F0G280554 (1): B265X6
F0G290510 (1): B265T0

The LCS (LCSD) recoveries for 4 compounds and the RPD values for 7 compounds are outside the upper QC limits, indicating a potential positive bias for these analytes. These analytes were not detected above the reporting limit in the associated samples. The sample data was not adversely affected by this excursion. The original sample results are provided.
Affected Samples:
F0G280554 (1): B265X6
F0G290510 (1): B265T0

The MS/MSD recoveries for Bromomethane and Iodomethane are outside the established QC limits. These analytes were not detected above the reporting limit in the associated samples therefore the sample data was not affected by this excursion. These analytes have been qualified accordingly with the "T" flag in the associated samples.
Affected Samples:
F0G280554 (1): B265X6
F0G290510 (1): B265T0

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

13715 Rider Trail North Earth City, MO 63045 **tel** 314.298.8566 **fax** 314.298.8757 **www.testamericainc.com**

ISSUE RESOLUTION FORM

CHPRC TRACKING NUMBER: 10-212

Date: August 30, 2010 SAF Nos. X10-081

SDG: SL953 LOGIN No.: **F0G270477** TEST: VOA

Sample No.(s) : **B26650**

Submitted By: Mike Franks
Phone No. 314-298-8566
Fax No. 314-298-8757

Submitted To: S Champoux
Phone No. 509-376-4319
Fax No. 509-373-1788

ISSUE	PROPOSED RESOLUTION
The LCS for the initial analysis for Sample B26650 for Volatiles 8260 analysis had high recoveries for Bromomethane and Iodomethane, indicating a potential high bias for these analytes. These analytes were detected above the RL in sample B26650. The sample was re-analyzed outside 2x the hold time (analyzed 34 days after collection). These two analytes were not detected above the RL in the re-analysis. The LCS recoveries were acceptable for the re-analysis.	1) Report the results for both analysis for these two analytes in the hard copy and note in the case narrative. Report the original result only in the EDD. 2) Report only the re-analysis outside hold time in both hard copy and EDD and note in the case narrative. 3) Report only the original analysis in both hard copy and EDD and note in the case narrative.

CHPRC/BHI/WMH/PNNL COMMENTS

Accept proposed resolution 3.

Sara Champoux 9/1/2010
Signature and Date

METHODS SUMMARY

SL953

PARAMETER	ANALYTICAL METHOD	PREPARATION METHOD
Volatile Organics by GC/MS	SW846 8260B	SW846 5030B

References:

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

SAMPLE SUMMARY

SL953 : F0G270477

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
L4QA6	001	B26650	07/23/10	08:23
L4QA8	002	B265K6	07/26/10	09:17

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.

(Continued on next page)

SAMPLE SUMMARY

SL953 : F0G280554

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
L4TCW	001	B265X6	07/26/10	11:39

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.

(Continued on next page)

SAMPLE SUMMARY

SL953 : F0G290510

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
L4VKN	001	B265T0	07/27/10	12:16

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# SL953

CHPRC SL953	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C.# X10-081-165 Page 1 of 1

Collector: KE Hamilton CHPRC	Contact/Requester: Karen Waters-Husted	Telephone No.: 376-4650
SAF No.: X10-081	Sampling Origin: Hanford site	Purchase Order/Charge Code: 300118ES20
Project Title: IU2 IU6DURA JULY 2010	Logbook No: HNF-N-506 32144	Ice Chest No. GRP-03-08
Shipped To (Lab): TestAmerica St. Louis	Method of Shipment: Commercial Carrier	Bill of Lading/Air Bill No.
Protocol: CERCLA	Priority: 45 Days	Offsite Property No.

POSSIBLE SAMPLE HAZARDS/REMARKS
** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL INSTRUCTIONS Hold Time
Site Wide Area Generator Knowledge Information Form applies.
The CACN for all analytical work at WSCF is 401922.
Please report all TICs.

Total Activity Exemption: Yes ☑ No ☐

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B265T0	N	W	7-27-10	1216	4x40-mL aGs*	8260_VOA_GCMS: List-2 (55)	14 Days	HCl or H2SO4 to pH <2 Cool~4C
B265T0	N	W	7-27-10	1214	1x20-mL P	Activity Scan	6 Months	None

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
KE Hamilton CHPRC			JUL 27 2010 1410	SSU-1			JUL 27 2010 1410
SSU-1			JUL 28 2010 0720	D. R. Williamson CHPRC			JUL 28 2010 0720
D. R. Williamson CHPRC			JUL 28 2010 1500	FEDEX			
Fed Ex				NICHOLAS OWENS			7/29/10 0930

Matrix *

S = Soil		DS = Drum Solid	
SE = Sediment		DL = Drum Liquid	
SO = Solid		T = Tissue	
SL = Sludge		WI = Wine	
W = Water		L = Liquid	
O = Oil		V = Vegetation	
A = Air		X = Other	

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time

A-6004-842 (05/10)

TestAmerica St. Louis

Print page | Close

FedEx.

Detailed Results

Tracking no.: 798891523812 Select time format: 12H

Delivered

Delivered
Signed for by: S.WILSON

Shipment Dates	Destination
Ship date Jul 28, 2010	EARTH CITY, MO
Delivery date Jul 29, 2010 9:24 AM	Signature Proof of Delivery

Shipment Facts

Service type	Priority Overnight	Delivered to	Shipping/Receiving
Weight	43.0 lbs/19.5 kg	Reference	GRP-03-028

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
Jul 29, 2010 9:24 AM	Delivered	EARTH CITY, MO	
Jul 29, 2010 6:34 AM	On FedEx vehicle for delivery	EARTH CITY, MO	
Jul 29, 2010 6:28 AM	At local FedEx facility	EARTH CITY, MO	
Jul 29, 2010 5:07 AM	At dest sort facility	BERKELEY, MO	
Jul 29, 2010 4:20 AM	Departed FedEx location	MEMPHIS, TN	
Jul 29, 2010 12:33 AM	Arrived at FedEx location	MEMPHIS, TN	
Jul 28, 2010 5:15 PM	Left FedEx origin facility	PASCO, WA	
Jul 28, 2010 3:46 PM	Picked up	PASCO, WA	
Jul 28, 2010 10:22 AM	Shipment information sent to FedEx		

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Lot #(s): F0G290506
510
520
70

CONDITION UPON RECEIPT FORM

Client: CHPRC

Quote No: 86186, 86553, 86648

COC/RFA No: SEE BELOW

Initiated By: NJO Date: 7/29/10 Time: 0930

Shipping Information

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

Shipping # (s):*		Sample Temperature (s):**	
1. 7988 9152 3812	6.	1. 2	6.
2.	7.	2.	7.
3.	8.	3.	8.
4.	9.	4.	9.
5.	10.	5.	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.	(Y) N	Are there custody seals present on the cooler?	8.	(Y) N	Are there custody seals present on bottles?
2.	Y (N) N/A	Do custody seals on cooler appear to be tampered with?	9.	Y (N) N/A	Do custody seals on bottles appear to be tampered with?
3.	(Y) N	Were contents of cooler frisked after opening, but before unpacking?	10.	Y N (N/A)	Was sample received with proper pH[1]? (If not, make note below)
4.	(Y) N	Sample received with Chain of Custody?	11.	(Y) N	Sample received in proper containers?
5.	(Y) N N/A	Does the Chain of Custody match sample ID's on the container(s)?	12.	Y (N) N/A	Headspace in VOA or TOX liquid samples? (If Yes, note sample ID's below)
6.	Y (N)	Was sample received broken?	13.	Y N (N/A)	Was Internal COC/Workshare received?
7.	(Y) N	Is sample volume sufficient for analysis?	14.	Y N (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:

W10-006-370
X10-081-165
X10-098-7
-17
-18
-27
-37
-59

X10-098-69
-79
-89
-99
-109
-119
-139

Corrective Action:

☐ Client Contact Name: _____ Informed by: _____

☐ Sample(s) processed "as is"

☐ Sample(s) on hold until: If released, notify: _____

Project Management Review: Jaymar Pohl Date: 7.30.10

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.

ADMIN-0004, REVISED 10/21/08 \\Slsvr01\QA\FORMS\ST-LOUIS\ADMIN\Admin004 rev11.doc

SDG# SL953

CHPRC Curl 66 SL953

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # X10-081-225

Page 1 of 1

Collector: KE Hamilton CHPRC	Contact/Requester: Karen Waters-Husted	Telephone No.: 376-4650
SAF No.: X10-081	Sampling Origin: Hanford site	Purchase Order/Charge Code: 300118ES20
Project Title: IU2 IU6DURA JULY 2010	Logbook No.: HNF-N-506 32 143	Ice Chest No.: GWS-228 18 lbs
Shipped To (Lab): TestAmerica St. Louis	Method of Shipment: Commercial Carrier	Bill of Lading/Air Bill No.: 798887194969
Protocol: CERCLA	Priority: 45 Days	Offsite Property No.

POSSIBLE SAMPLE HAZARDS/REMARKS
** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL INSTRUCTIONS Hold Time
Site Wide Area Generator Knowledge Information Form applies.
The CACN for all analytical work at WSCF is 401922.
Please report all TICs.

Total Activity Exemption: Yes ☑ No ☐

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B265X6	N	W	7-26-10	1139	4x40-mL aGs*	8260_VOA_GCMS: List-2 (55)	14 Days	HCl or H2SO4 to pH <2 Cool~4C
B265X6	N	W	7-26-10	1139	1x20-mL P	Activity Scan	6 Months	None

Relinquished By	Date/Time	Received By	Date/Time
KE Hamilton CHPRC (Print / Sign)	JUL 26 2010 1430	SSU-1 (Print / Sign)	JUL 26 2010 1430
SSU-1	JUL 27 2010 0730	D. R. Williamson CHPRC	JUL 27 2010 0730
D. R. Williamson CHPRC	JUL 27 2010 1400	FEDEX	
Fed Ex		NICHOLAS OWENS	7/28/10 0830

Matrix *

S = Soil		DS = Drum Solid.	
SE = Sediment		DL = Drum Liqui	
SO = Solid		T = Tissue	
SL = Sludge		WI = Wine	
W = Water		L = Liquid	
O = Oil		V = Vegetation	
A = Air		X = Other	

FINAL SAMPLE DISPOSITION Disposal Method (e.g., Return to customer, per lab procedure, used in process) | Disposed By | Date/Time

A-6004-842 (05/10)

TestAmerica St. Louis

13 of 53

Print page | Close

FedEx

Detailed Results

Tracking no.: 798887194969 Select time format: 12H

Delivered

Delivered
Signed for by: B.DANIELS

Shipment Dates	Destination
Ship date Jul 27, 2010	EARTH CITY, MO
Delivery date Jul 28, 2010 8:36 AM	Signature Proof of Delivery

Shipment Facts

Service type	Priority Overnight	Delivered to	Shipping/Receiving
Weight	18.0 lbs/8.2 kg	Reference	GWS-228

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
Jul 28, 2010 8:36 AM	Delivered	EARTH CITY, MO	
Jul 28, 2010 8:09 AM	On FedEx vehicle for delivery	EARTH CITY, MO	
Jul 28, 2010 7:09 AM	At local FedEx facility	EARTH CITY, MO	
Jul 28, 2010 5:14 AM	At dest sort facility	BERKELEY, MO	
Jul 28, 2010 4:28 AM	Departed FedEx location	MEMPHIS, TN	
Jul 28, 2010 12:24 AM	Arrived at FedEx location	MEMPHIS, TN	
Jul 27, 2010 5:15 PM	Left FedEx origin facility	PASCO, WA	
Jul 27, 2010 3:54 PM	Picked up	PASCO, WA	
Jul 27, 2010 10:59 AM	Shipment information sent to FedEx		

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Lot #(s): FOG 280511
549
554
554

CONDITION UPON RECEIPT FORM

Client: CHPRC

Quote No: 86648 5286, 86553, 86493 66

COC/RFA No: See Below

Initiated By: NVO Date: 7/28/10 Time: 0830

Shipping Information

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

Shipping # (s):*		Sample Temperature (s):**	
1. 7988 8759 4308	6.	1. 4	6.
2. 7988 8759 4330	7.	2. 4	7.
3. 7988 8719 4969	8.	3. 3	8.
4. 7988 8862 8800	9.	4. 3	9.
5.	10.	5.	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.	Y N	Are there custody seals present on the cooler?	8.	Y N	Are there custody seals present on bottles?
2.	Y N N/A	Do custody seals on cooler appear to be tampered with?	9.	Y N N/A	Do custody seals on bottles appear to be tampered with?
3.	Y N	Were contents of cooler frisked after opening, but before unpacking?	10.	Y N N/A	Was sample received with proper pH[1]? (If not, make note below)
4.	Y N	Sample received with Chain of Custody?	11.	Y N	Sample received in proper containers?
5.	Y N N/A	Does the Chain of Custody match sample ID's on the container(s)?	12.	Y N N/A	Headspace in VOA or TOX liquid samples? (If Yes, note sample ID's below)
6.	Y N	Was sample received broken?	13.	Y N N/A	Was Internal COC/Workshare received?
7.	Y N	Is sample volume sufficient for analysis?	14.	Y N N/A	Was pH taken by original TestAmerica lab?

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

Notes:

F10-106-039 THRU 0046
X10-081-225
X10-080-148
X10-098-49

2 samples recivd. out of hold time, collected 7.21.10.

Corrective Action:
- ☐ Client Contact Name: _____ Informed by: _____
- ☐ Sample(s) processed "as is"
- ☐ Sample(s) on hold until: If released, notify: _____

Project Management Review: Jayma Pohl Date: 8-1-10

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.

ADMIN-0004, REVISED 10/21/08 \\Slsvr01\QA\FORMS\ST-LOUIS\ADMIN\Admin004 rev11.doc

SDG# SL953

CHPRC SL953	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # X10-081-315 Page 1 of 1

Collector: FM Hall CHPRC	Contact/Requester: Karen Waters-Husted	Telephone No.: 376-4650
SAF No.: X10-081	Sampling Origin: Hanford site	Purchase Order/Charge Code: 300118ES20
Project Title: IU2_IU6DURA_JULY 2010	Logbook No.: HNF-N-506 32 / 39	Ice Chest No.: 6WS-180
Shipped To (Lab): TestAmerica St. Louis	Method of Shipment: Commercial Carrier	Bill of Lading/Air Bill No.: 7988 8250 1456
Protocol: CERCLA	Priority: 45 Days	Offsite Property No.

POSSIBLE SAMPLE HAZARDS/REMARKS
** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL INSTRUCTIONS Hold Time — Total Activity Exemption: Yes ☑ No ☐
Site Wide Area Generator Knowledge Information Form applies.
The CACN for all analytical work at WSCF is 401922.
Please report all TICs.

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B26650	N	W	7-23-10	0827	4x40-mL aGs*	8260_VOA_GCMS: List-2 (55)	14 Days	HCl or H2SO4 to pH <2 Cool~4C
B26650	N	W	/	/	1x20-mL P	Activity Scan	6 Months	None

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
FM Hall CHPRC			JUL 23 2010 1510	SSU#1			JUL 23 2010 1510
SSU-1			JUL 26 2010 0700	L.D. Wall CHPRC			JUL 26 2010 0700
L.D. Wall CHPRC			JUL 26 2010 0700 0400	FEDEX			
FED EX				Brian Daniels			7/27/10 0920

Matrix *

S = Soil		DS = Drum Solid	
SE = Sediment		DL = Drum Liquid	
SO = Solid		T = Tissue	
SL = Sludge		WI = Wine	
W = Water		L = Liquid	
O = Oil		V = Vegetation	
A = Air		X = Other	

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time

A-6004-842 (05/10)

TestAmerica St. Louis

COC 372

SDG# SL953

CHPRC

SL953

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # X10-081-75

Collector: RD Julian CHPRC	Contact/Requester: Karen Waters-Husted	Telephone No.: 376-4650
SAF No.: X10-081	Sampling Origin: Hanford site	Purchase Order/Charge Code: 300118ES20
Project Title: IU2_IU6DURA_JULY 2010	Logbook No.: HNF-N-506 33 / 29	Ice Chest No.: GWS-106
Shipped To (Lab): TestAmerica St. Louis	Method of Shipment: Commercial Carrier	Bill of Lading/Air Bill No.: 7937607857 75
Protocol: CERCLA	Priority: 45 Days	Offsite Property No.: N/A

POSSIBLE SAMPLE HAZARDS/REMARKS
** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL INSTRUCTIONS Hold Time
Site Wide Area Generator Knowledge Information Form applies.
The CACN for all analytical work at WSCF is 401922.
Please report all TICs.

Total Activity Exemption: Yes ☑ No ☐

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B265K6	N	W	7-26-10	0917	4x40-mL aGs*	8260_VOA_GCMS: List-2 (55)	14 Days	HCl or H2SO4 to pH <2 Cool~4C
B265K6	N	W	7-26-10	0917	1x20-mL P	Activity Scan	6 Months	None

Relinquished By (Print / Sign)	Date/Time	Received By (Print / Sign)	Date/Time
RD Julian CHPRC	JUL 26 2010 1200	SSU- 1	JUL 26 2010 1200
SSU- 1	JUL 26 2010 1230	L.D. Wall CHPRC	JUL 26 2010 1230
L.D. Wall CHPRC	JUL 26 2010 1400	FEDEX	
FED EX		Brian Daniels	7/27/10 0920

Matrix *

S = Soil		DS = Drum Solid	
SE = Sediment		DL = Drum Liquid	
SO = Solid		T = Tissue	
SL = Sludge		WI = Wine	
W = Water		L = Liquid	
O = Oil		V = Vegetation	
A = Air		X = Other	

FINAL SAMPLE DISPOSITION Disposal Method (e.g., Return to customer, per lab procedure, used in process) | Disposed By | Date/Time

A-6004-842 (05/10)

TestAmerica St. Louis

Print page | Close

FedEx

Detailed Results

Tracking no.: 798882501456 Select time format: 12H

Delivered

Delivered
Signed for by: S.WILSON

Shipment Dates	Destination
Ship date Jul 26, 2010	EARTH CITY, MO
Delivery date Jul 27, 2010 9:15 AM	Signature Proof of Delivery

Shipment Facts

Service type	Priority Overnight	Delivered to	Shipping/Receiving
Weight	65.0 lbs/29.5 kg	Reference	GWS-180

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
Jul 27, 2010 9:15 AM	Delivered	EARTH CITY, MO	
Jul 27, 2010 7:37 AM	On FedEx vehicle for delivery	EARTH CITY, MO	
Jul 27, 2010 7:31 AM	At local FedEx facility	EARTH CITY, MO	
Jul 27, 2010 6:14 AM	At dest sort facility	BERKELEY, MO	
Jul 27, 2010 5:29 AM	Departed FedEx location	MEMPHIS, TN	
Jul 27, 2010 1:05 AM	Arrived at FedEx location	MEMPHIS, TN	
Jul 26, 2010 5:17 PM	Left FedEx origin facility	PASCO, WA	
Jul 26, 2010 3:36 PM	Picked up	PASCO, WA	
Jul 26, 2010 10:14 AM	Shipment information sent to FedEx		

Print page | Close

FedEx

Detailed Results

Tracking no.: 793760785775 Select time format: 12H

Delivered

Delivered
Signed for by: S.WILSON

Shipment Dates	Destination
Ship date Jul 26, 2010	EARTH CITY, MO
Delivery date Jul 27, 2010 9:15 AM	Signature Proof of Delivery

Shipment Facts

Service type	Priority Overnight	Delivered to	Shipping/Receiving
Weight	41.0 lbs/18.6 kg	Reference	GWS-106

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
Jul 27, 2010 9:15 AM	Delivered	EARTH CITY, MO	
Jul 27, 2010 7:32 AM	On FedEx vehicle for delivery	EARTH CITY, MO	
Jul 27, 2010 7:27 AM	At local FedEx facility	EARTH CITY, MO	
Jul 27, 2010 6:14 AM	At dest sort facility	BERKELEY, MO	
Jul 27, 2010 5:29 AM	Departed FedEx location	MEMPHIS, TN	
Jul 27, 2010 1:05 AM	Arrived at FedEx location	MEMPHIS, TN	
Jul 26, 2010 5:17 PM	Left FedEx origin facility	PASCO, WA	
Jul 26, 2010 3:36 PM	Picked up	PASCO, WA	
Jul 26, 2010 2:40 PM	Shipment information sent to FedEx		

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Lot #(s): F0h270475 - 477 - 479 - 481 - 483 | F0G270487

CONDITION UPON RECEIPT FORM

Client: CHPRC

Quote No: 86553, 86486, 86298, 86636, 86637, 86356

COC/RFA No: see below

Initiated By: BA Date: 7/27/10 Time: 0920

372

Shipping Information

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

Shipping # (s):*		Sample Temperature (s):**	
1. 7937 6078 5775	6.	1. 2	6.
2. 7980 0364 2270	7.	2. 4	7.
3. 7988 8250 1456	8.	3. 2	8.
4. 7986 8364 2812	9.	4. 2	9.
5.	10.	5.	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.	Y N	Are there custody seals present on the cooler?	8.	Y N	Are there custody seals present on bottles?
2.	Y N N/A	Do custody seals on cooler appear to be tampered with?	9.	Y N N/A	Do custody seals on bottles appear to be tampered with?
3.	Y N	Were contents of cooler frisked after opening, but before unpacking?	10.	Y N N/A	Was sample received with proper pH[1]? (If not, make note below)
4.	Y N	Sample received with Chain of Custody?	11.	Y N	Sample received in proper containers?
5.	Y N N/A	Does the Chain of Custody match sample ID's on the container(s)?	12.	Y N N/A	Headspace in VOA or TOX liquid samples? (If Yes, note sample ID's below)
6.	Y N	Was sample received broken?	13.	Y N N/A	Was Internal COC/Workshare received?
7.	Y N	Is sample volume sufficient for analysis?	14.	Y N 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: E10-032-24, 86, 442, 292
X10-071-114, 117, 115, 116
X10-081-75, 315
X10-074-42
W10-004-369, 367, 368

Corrective Action:
- ☐ Client Contact Name: _____ Informed by: _____
- ☐ Sample(s) processed "as is"
- ☐ Sample(s) on hold until: If released, notify: _____
- Project Management Review: Jayna Pohl Date: 8-2-10

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.

ADMIN-0004, REVISED 10/21/08 \\Slsvr01\QA\FORMS\ST-LOUIS\ADMIN\Admin004 rev11.doc

GC/MS VOLATILES

CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B26650

GC/MS Volatiles

Lot-Sample #...: F0G270477-001 Work Order #...: L4QA61AC Matrix.....: WATER
Date Sampled...: 07/23/10 Date Received..: 07/27/10
Prep Date.....: 07/28/10 Analysis Date..: 07/28/10
Prep Batch #...: 0210421
Dilution Factor: 1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetonitrile	ND	5.0	ug/L	2.0
Acrolein	ND	10	ug/L	2.8
Bromodichloromethane	ND	1.0	ug/L	0.088
Bromoform	ND	1.0	ug/L	0.17
Bromomethane	**4.5**	**2.0**	**ug/L**	**0.13**
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroprene	ND	1.0	ug/L	0.097
Dibromochloromethane	ND	1.0	ug/L	0.13
1,2-Dibromo-3-chloro-propane	ND	1.0	ug/L	0.41
Chloroethane	ND	2.0	ug/L	0.099
Chloromethane	**0.63 J**	**2.0**	**ug/L**	**0.077**
Allyl chloride	ND	2.0	ug/L	0.11
1,2-Dibromoethane	ND	1.0	ug/L	0.13
Dibromomethane	ND	1.0	ug/L	0.21
trans-1,4-Dichloro-2-butene	ND	2.0	ug/L	0.29
Dichlorodifluoromethane	ND	2.0	ug/L	0.084
1,1-Dichloroethene	ND	1.0	ug/L	0.083
1,2-Dichloroethene (total)	ND	2.0	ug/L	0.15
1,2-Dichloropropane	ND	1.0	ug/L	0.097
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.073
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.083
1,4-Dioxane	ND	20	ug/L	7.6
Ethylbenzene	ND	1.0	ug/L	0.086
Ethyl methacrylate	ND	1.0	ug/L	0.11
Trichlorofluoromethane	ND	1.0	ug/L	0.11
2-Hexanone	ND	5.0	ug/L	0.22
Iodomethane	**4.3 T**	**2.0**	**ug/L**	**0.092**
Isobutanol	ND	80	ug/L	8.7
Methacrylonitrile	ND	5.0	ug/L	0.50
Methyl methacrylate	ND	1.0	ug/L	0.26
Styrene	ND	1.0	ug/L	0.074
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.090
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.098
1,2,3-Trichloropropane	ND	1.0	ug/L	0.15
Vinyl acetate	ND	2.0	ug/L	0.18
Vinyl chloride	ND	2.0	ug/L	0.084

(Continued on next page)

CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B26650

GC/MS Volatiles

Lot-Sample #...: F0G270477-001 Work Order #...: L4QA61AC Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	2.0	ug/L	0.34
Methylene chloride	ND	1.0	ug/L	0.11
Carbon disulfide	**0.053 J**	**1.0**	**ug/L**	**0.051**
1,1-Dichloroethane	ND	1.0	ug/L	0.068
2-Butanone	ND	5.0	ug/L	0.52
Chloroform	ND	1.0	ug/L	0.10
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.087
Propionitrile	ND	5.0	ug/L	1.4
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.083
1,1,1-Trichloroethane	ND	1.0	ug/L	0.069
Carbon tetrachloride	ND	1.0	ug/L	0.12
1,2-Dichloroethane	ND	1.0	ug/L	0.10
Benzene	ND	1.0	ug/L	0.064
Trichloroethene	ND	1.0	ug/L	0.21
4-Methyl-2-pentanone	ND	5.0	ug/L	0.12
1,1,2-Trichloroethane	ND	1.0	ug/L	0.15
Tetrachloroethene	ND	1.0	ug/L	0.18
Tetrahydrofuran	ND	10	ug/L	1.1
Xylenes (total)	ND	3.0	ug/L	0.20
1,4-Dichlorobenzene	ND	1.0	ug/L	0.12
1-Butanol	ND	40	ug/L	12
Toluene	ND	1.0	ug/L	0.072

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	97	(70 - 127)
Dibromofluoromethane	88	(71 - 128)
1,2-Dichloroethane-d4	98	(65 - 128)
4-Bromofluorobenzene	99	(69 - 124)

NOTE(S):

J Estimated result. Result is less than RL.

T Spike sample recovery is outside control limits.

CH2M Hill Plateau Remediation DOE RL

B26650

GC/MS Volatiles

Lot-Sample #: F0G270477-001 **Work Order #:** L4QA61AC **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/L

CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B265K6

GC/MS Volatiles

Lot-Sample #...: F0G270477-002 **Work Order #...:** L4QA81AC **Matrix.....:** WATER
Date Sampled...: 07/26/10 **Date Received..:** 07/27/10
Prep Date.....: 07/28/10 **Analysis Date..:** 07/28/10
Prep Batch #...: 0210421
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetonitrile	ND	5.0	ug/L	2.0
Acrolein	ND	10	ug/L	2.8
Bromodichloromethane	ND	1.0	ug/L	0.088
Bromoform	ND	1.0	ug/L	0.17
Bromomethane	**1.1 J**	**2.0**	**ug/L**	**0.13**
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroprene	ND	1.0	ug/L	0.097
Dibromochloromethane	ND	1.0	ug/L	0.13
1,2-Dibromo-3-chloro-propane	ND	1.0	ug/L	0.41
Chloroethane	ND	2.0	ug/L	0.099
Chloromethane	ND	2.0	ug/L	0.077
Allyl chloride	ND	2.0	ug/L	0.11
1,2-Dibromoethane	ND	1.0	ug/L	0.13
Dibromomethane	ND	1.0	ug/L	0.21
trans-1,4-Dichloro-2-butene	ND	2.0	ug/L	0.29
Dichlorodifluoromethane	ND	2.0	ug/L	0.084
1,1-Dichloroethene	ND	1.0	ug/L	0.083
1,2-Dichloroethene (total)	ND	2.0	ug/L	0.15
1,2-Dichloropropane	ND	1.0	ug/L	0.097
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.073
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.083
1,4-Dioxane	ND	20	ug/L	7.6
Ethylbenzene	ND	1.0	ug/L	0.086
Ethyl methacrylate	ND	1.0	ug/L	0.11
Trichlorofluoromethane	ND	1.0	ug/L	0.11
2-Hexanone	ND	5.0	ug/L	0.22
Iodomethane	**0.92 J,T**	**2.0**	**ug/L**	**0.092**
Isobutanol	ND	80	ug/L	8.7
Methacrylonitrile	ND	5.0	ug/L	0.50
Methyl methacrylate	ND	1.0	ug/L	0.26
Styrene	ND	1.0	ug/L	0.074
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.090
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.098
1,2,3-Trichloropropane	ND	1.0	ug/L	0.15
Vinyl acetate	ND	2.0	ug/L	0.18
Vinyl chloride	ND	2.0	ug/L	0.084

(Continued on next page)

CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B265K6

GC/MS Volatiles

Lot-Sample #...: F0G270477-002 Work Order #...: L4QA81AC Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	2.0	ug/L	0.34
Methylene chloride	ND	1.0	ug/L	0.11
Carbon disulfide	ND	1.0	ug/L	0.051
1,1-Dichloroethane	ND	1.0	ug/L	0.068
2-Butanone	ND	5.0	ug/L	0.52
Chloroform	ND	1.0	ug/L	0.10
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.087
Propionitrile	ND	5.0	ug/L	1.4
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.083
1,1,1-Trichloroethane	ND	1.0	ug/L	0.069
Carbon tetrachloride	ND	1.0	ug/L	0.12
1,2-Dichloroethane	ND	1.0	ug/L	0.10
Benzene	ND	1.0	ug/L	0.064
Trichloroethene	ND	1.0	ug/L	0.21
4-Methyl-2-pentanone	ND	5.0	ug/L	0.12
1,1,2-Trichloroethane	ND	1.0	ug/L	0.15
Tetrachloroethene	ND	1.0	ug/L	0.18
Tetrahydrofuran	ND	10	ug/L	1.1
Xylenes (total)	ND	3.0	ug/L	0.20
1,4-Dichlorobenzene	ND	1.0	ug/L	0.12
1-Butanol	ND	40	ug/L	12
Toluene	ND	1.0	ug/L	0.072

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	97	(70 - 127)
Dibromofluoromethane	88	(71 - 128)
1,2-Dichloroethane-d4	98	(65 - 128)
4-Bromofluorobenzene	100	(69 - 124)

NOTE(S):

J Estimated result. Result is less than RL.

T Spike sample recovery is outside control limits.

CH2M Hill Plateau Remediation DOE RL

B265K6

GC/MS Volatiles

Lot-Sample #: F0G270477-002 Work Order #: L4QA81AC Matrix: WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/L

CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B265X6

GC/MS Volatiles

Lot-Sample #...: F0G280554-001 Work Order #...: L4TCW1AC Matrix.....: WATER
Date Sampled...: 07/26/10 Date Received..: 07/28/10
Prep Date.....: 07/29/10 Analysis Date..: 07/29/10
Prep Batch #...: 0221351
Dilution Factor: 1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetonitrile	ND	5.0	ug/L	2.0
Acrolein	ND	10	ug/L	2.8
Bromodichloromethane	ND	1.0	ug/L	0.088
Bromoform	ND	1.0	ug/L	0.17
Bromomethane	**0.64 J,B,T**	**2.0**	**ug/L**	**0.25**
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroprene	ND	1.0	ug/L	0.097
Dibromochloromethane	ND	1.0	ug/L	0.13
1,2-Dibromo-3-chloro-propane	ND	1.0	ug/L	0.41
Chloroethane	ND	2.0	ug/L	0.099
Chloromethane	ND	2.0	ug/L	0.077
Allyl chloride	ND	2.0	ug/L	0.11
1,2-Dibromoethane	ND	1.0	ug/L	0.13
Dibromomethane	ND	1.0	ug/L	0.21
trans-1,4-Dichloro-2-butene	ND	2.0	ug/L	0.29
Dichlorodifluoromethane	ND	2.0	ug/L	0.084
1,1-Dichloroethene	ND	1.0	ug/L	0.083
1,2-Dichloroethene (total)	ND	2.0	ug/L	0.15
1,2-Dichloropropane	ND	1.0	ug/L	0.097
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.073
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.083
1,4-Dioxane	ND	20	ug/L	7.6
Ethylbenzene	ND	1.0	ug/L	0.086
Ethyl methacrylate	ND	1.0	ug/L	0.11
Trichlorofluoromethane	ND	1.0	ug/L	0.11
2-Hexanone	ND	5.0	ug/L	0.22
Iodomethane	**0.74 J,B,T**	**2.0**	**ug/L**	**0.092**
Isobutanol	ND	80	ug/L	8.7
Methacrylonitrile	ND	5.0	ug/L	0.50
Methyl methacrylate	ND	1.0	ug/L	0.26
Styrene	ND	1.0	ug/L	0.074
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.090
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.098
1,2,3-Trichloropropane	ND	1.0	ug/L	0.15
Vinyl acetate	ND	2.0	ug/L	0.18
Vinyl chloride	ND	2.0	ug/L	0.084

(Continued on next page)

CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B265X6

GC/MS Volatiles

Lot-Sample #...: F0G280554-001 Work Order #...: L4TCW1AC Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	2.0	ug/L	0.34
Methylene chloride	ND	1.0	ug/L	0.11
Carbon disulfide	**0.084 J,B**	**1.0**	**ug/L**	**0.051**
1,1-Dichloroethane	ND	1.0	ug/L	0.068
2-Butanone	ND	5.0	ug/L	0.52
Chloroform	ND	1.0	ug/L	0.10
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.087
Propionitrile	ND	5.0	ug/L	1.4
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.083
1,1,1-Trichloroethane	ND	1.0	ug/L	0.069
Carbon tetrachloride	ND	1.0	ug/L	0.12
1,2-Dichloroethane	ND	1.0	ug/L	0.10
Benzene	ND	1.0	ug/L	0.064
Trichloroethene	ND	1.0	ug/L	0.25
4-Methyl-2-pentanone	ND	5.0	ug/L	0.12
1,1,2-Trichloroethane	ND	1.0	ug/L	0.15
Tetrachloroethene	ND	1.0	ug/L	0.18
Tetrahydrofuran	ND	10	ug/L	1.1
Xylenes (total)	ND	3.0	ug/L	0.20
1,4-Dichlorobenzene	ND	1.0	ug/L	0.12
1-Butanol	ND	40	ug/L	12
Toluene	ND	1.0	ug/L	0.072

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	98	(70 - 127)
Dibromofluoromethane	92	(71 - 128)
1,2-Dichloroethane-d4	97	(65 - 128)
4-Bromofluorobenzene	96	(69 - 124)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

T Spike sample recovery is outside control limits.

CH2M Hill Plateau Remediation DOE RL

B265X6

GC/MS Volatiles

Lot-Sample #: F0G280554-001 Work Order #: L4TCW1AC Matrix: WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/L

CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B265T0

GC/MS Volatiles

Lot-Sample #...: F0G290510-001 Work Order #...: L4VKN1AC Matrix.....: WATER
Date Sampled...: 07/27/10 Date Received..: 07/29/10
Prep Date.....: 07/29/10 Analysis Date..: 07/29/10
Prep Batch #...: 0221351
Dilution Factor: 1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetonitrile	ND	5.0	ug/L	2.0
Acrolein	ND	10	ug/L	2.8
Bromodichloromethane	ND	1.0	ug/L	0.088
Bromoform	ND	1.0	ug/L	0.17
Bromomethane	**0.28 J,B,T**	**2.0**	**ug/L**	**0.25**
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroprene	ND	1.0	ug/L	0.097
Dibromochloromethane	ND	1.0	ug/L	0.13
1,2-Dibromo-3-chloro-propane	ND	1.0	ug/L	0.41
Chloroethane	ND	2.0	ug/L	0.099
Chloromethane	ND	2.0	ug/L	0.077
Allyl chloride	ND	2.0	ug/L	0.11
1,2-Dibromoethane	ND	1.0	ug/L	0.13
Dibromomethane	ND	1.0	ug/L	0.21
trans-1,4-Dichloro-2-butene	ND	2.0	ug/L	0.29
Dichlorodifluoromethane	ND	2.0	ug/L	0.084
1,1-Dichloroethene	ND	1.0	ug/L	0.083
1,2-Dichloroethene (total)	ND	2.0	ug/L	0.15
1,2-Dichloropropane	ND	1.0	ug/L	0.097
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.073
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.083
1,4-Dioxane	ND	20	ug/L	7.6
Ethylbenzene	ND	1.0	ug/L	0.086
Ethyl methacrylate	ND	1.0	ug/L	0.11
Trichlorofluoromethane	ND	1.0	ug/L	0.11
2-Hexanone	ND	5.0	ug/L	0.22
Iodomethane	**0.74 J,B,T**	**2.0**	**ug/L**	**0.092**
Isobutanol	ND	80	ug/L	8.7
Methacrylonitrile	ND	5.0	ug/L	0.50
Methyl methacrylate	ND	1.0	ug/L	0.26
Styrene	ND	1.0	ug/L	0.074
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.090
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.098
1,2,3-Trichloropropane	ND	1.0	ug/L	0.15
Vinyl acetate	ND	2.0	ug/L	0.18
Vinyl chloride	ND	2.0	ug/L	0.084

(Continued on next page)

CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B265T0

GC/MS Volatiles

Lot-Sample #...: F0G290510-001 Work Order #...: L4VKN1AC Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	2.0	ug/L	0.34
Methylene chloride	ND	1.0	ug/L	0.11
Carbon disulfide	**0.26 J,B**	**1.0**	**ug/L**	**0.051**
1,1-Dichloroethane	ND	1.0	ug/L	0.068
2-Butanone	ND	5.0	ug/L	0.52
Chloroform	**0.30 J**	**1.0**	**ug/L**	**0.10**
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.087
Propionitrile	ND	5.0	ug/L	1.4
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.083
1,1,1-Trichloroethane	ND	1.0	ug/L	0.069
Carbon tetrachloride	**5.4**	**1.0**	**ug/L**	**0.12**
1,2-Dichloroethane	ND	1.0	ug/L	0.10
Benzene	ND	1.0	ug/L	0.064
Trichloroethene	ND	1.0	ug/L	0.25
4-Methyl-2-pentanone	ND	5.0	ug/L	0.12
1,1,2-Trichloroethane	ND	1.0	ug/L	0.15
Tetrachloroethene	ND	1.0	ug/L	0.18
Tetrahydrofuran	ND	10	ug/L	1.1
Xylenes (total)	ND	3.0	ug/L	0.20
1,4-Dichlorobenzene	ND	1.0	ug/L	0.12
1-Butanol	ND	40	ug/L	12
Toluene	ND	1.0	ug/L	0.072

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	97	(70 - 127)
Dibromofluoromethane	99	(71 - 128)
1,2-Dichloroethane-d4	103	(65 - 128)
4-Bromofluorobenzene	102	(69 - 124)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

T Spike sample recovery is outside control limits.

CH2M Hill Plateau Remediation DOE RL

B265T0

GC/MS Volatiles

Lot-Sample #: F0G290510-001 Work Order #: L4VKN1AC Matrix: WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/L

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: SL953 **Work Order #...:** L4V8J1AA **Matrix.....:** WATER
MB Lot-Sample #: F0G290000-421
Prep Date.....: 07/28/10
Analysis Date..: 07/28/10 **Prep Batch #...:** 0210421
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,4-Dioxane	ND	20	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B
Acetonitrile	ND	5.0	ug/L	SW846 8260B
Acrolein	ND	10	ug/L	SW846 8260B
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B
Bromoform	ND	1.0	ug/L	SW846 8260B
Bromomethane	ND	2.0	ug/L	SW846 8260B
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
Chloroprene	ND	1.0	ug/L	SW846 8260B
Dibromochloromethane	ND	1.0	ug/L	SW846 8260B
1,2-Dibromo-3-chloro-propane	ND	1.0	ug/L	SW846 8260B
Chloroethane	ND	2.0	ug/L	SW846 8260B
Chloromethane	ND	2.0	ug/L	SW846 8260B
Allyl chloride	ND	2.0	ug/L	SW846 8260B
1,2-Dibromoethane	ND	1.0	ug/L	SW846 8260B
Dibromomethane	ND	1.0	ug/L	SW846 8260B
trans-1,4-Dichloro-2-butene	ND	2.0	ug/L	SW846 8260B
Dichlorodifluoromethane	ND	2.0	ug/L	SW846 8260B
1,2-Dichloroethene (total)	ND	2.0	ug/L	SW846 8260B
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Ethyl methacrylate	ND	1.0	ug/L	SW846 8260B
Trichlorofluoromethane	ND	1.0	ug/L	SW846 8260B
2-Hexanone	ND	5.0	ug/L	SW846 8260B
Iodomethane	ND	2.0	ug/L	SW846 8260B
Isobutanol	ND	80	ug/L	SW846 8260B
Methacrylonitrile	ND	5.0	ug/L	SW846 8260B
Methyl methacrylate	ND	1.0	ug/L	SW846 8260B
Styrene	ND	1.0	ug/L	SW846 8260B
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
1,2,3-Trichloropropane	ND	1.0	ug/L	SW846 8260B
Vinyl acetate	ND	2.0	ug/L	SW846 8260B
Vinyl chloride	ND	2.0	ug/L	SW846 8260B
Acetone	ND	2.0	ug/L	SW846 8260B
Methylene chloride	ND	1.0	ug/L	SW846 8260B

(Continued on next page)

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: SL953 **Work Order #...:** L4V8J1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Carbon disulfide	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B
2-Butanone	ND	5.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
Propionitrile	ND	5.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260B
Benzene	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
4-Methyl-2-pentanone	ND	5.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
Tetrahydrofuran	ND	10	ug/L	SW846 8260B
Xylenes (total)	ND	3.0	ug/L	SW846 8260B
1,4-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1-Butanol	ND	40	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	97	(70 - 127)
Dibromofluoromethane	95	(71 - 128)
1,2-Dichloroethane-d4	101	(65 - 128)
4-Bromofluorobenzene	105	(69 - 124)

NOTE(S):

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

CH2M Hill Plateau Remediation DOE RL

Method Blank Report

GC/MS Volatiles

Lot-Sample #: F0G290000-421 B Work Order #: L4V8J1AA Matrix: WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/L

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: SL953 Work Order #...: L5A7X1AA Matrix.....: WATER
MB Lot-Sample #: F0H090000-351

Prep Date.....: 07/29/10
Analysis Date..: 07/29/10 Prep Batch #...: 0221351
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acetonitrile	ND	5.0	ug/L	SW846 8260B
Acrolein	ND	10	ug/L	SW846 8260B
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B
Bromoform	ND	1.0	ug/L	SW846 8260B
Bromomethane	**0.87 J**	**2.0**	**ug/L**	**SW846 8260B**
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
Chloroprene	ND	1.0	ug/L	SW846 8260B
Dibromochloromethane	ND	1.0	ug/L	SW846 8260B
1,2-Dibromo-3-chloro-propane	ND	1.0	ug/L	SW846 8260B
Chloroethane	ND	2.0	ug/L	SW846 8260B
Chloromethane	ND	2.0	ug/L	SW846 8260B
Allyl chloride	ND	2.0	ug/L	SW846 8260B
1,2-Dibromoethane	ND	1.0	ug/L	SW846 8260B
Dibromomethane	ND	1.0	ug/L	SW846 8260B
trans-1,4-Dichloro-2-butene	ND	2.0	ug/L	SW846 8260B
Dichlorodifluoromethane	ND	2.0	ug/L	SW846 8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethene (total)	ND	2.0	ug/L	SW846 8260B
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
1,4-Dioxane	ND	20	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B
Ethyl methacrylate	ND	1.0	ug/L	SW846 8260B
Trichlorofluoromethane	ND	1.0	ug/L	SW846 8260B
2-Hexanone	ND	5.0	ug/L	SW846 8260B
Iodomethane	**1.3 J**	**2.0**	**ug/L**	**SW846 8260B**
Isobutanol	ND	80	ug/L	SW846 8260B
Methacrylonitrile	ND	5.0	ug/L	SW846 8260B
Methyl methacrylate	ND	1.0	ug/L	SW846 8260B
Styrene	ND	1.0	ug/L	SW846 8260B
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
1,2,3-Trichloropropane	ND	1.0	ug/L	SW846 8260B
Vinyl acetate	ND	2.0	ug/L	SW846 8260B
Vinyl chloride	ND	2.0	ug/L	SW846 8260B
Acetone	ND	2.0	ug/L	SW846 8260B
Methylene chloride	ND	1.0	ug/L	SW846 8260B

(Continued on next page)

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: SL953 Work Order #...: L5A7X1AA Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Carbon disulfide	**0.15 J**	**1.0**	**ug/L**	**SW846 8260B**
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B
2-Butanone	ND	5.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
Propionitrile	ND	5.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260B
Benzene	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
4-Methyl-2-pentanone	ND	5.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
Tetrahydrofuran	ND	10	ug/L	SW846 8260B
Xylenes (total)	ND	3.0	ug/L	SW846 8260B
1,4-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1-Butanol	ND	40	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	98	(70 - 127)
Dibromofluoromethane	92	(71 - 128)
1,2-Dichloroethane-d4	100	(65 - 128)
4-Bromofluorobenzene	100	(69 - 124)

NOTE(S):

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

J Estimated result. Result is less than RL.

CH2M Hill Plateau Remediation DOE RL

Method Blank Report

GC/MS Volatiles

Lot-Sample #: F0H090000-351 B **Work Order #:** L5A7X1AA **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/L

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: SL953 Work Order #...: L4V8J1AC Matrix.....: WATER
LCS Lot-Sample#: F0G290000-421
Prep Date.....: 07/28/10 Analysis Date..: 07/28/10
Prep Batch #...: 0210421
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
cis-1,3-Dichloropropene	10.0	11.4	ug/L	114	SW846 8260B
Dibromochloromethane	10.0	10.5	ug/L	105	SW846 8260B
Chloromethane	10.0	12.8	ug/L	128	SW846 8260B
Bromomethane	10.0	17.9	ug/L	179	SW846 8260B
Chloroethane	10.0	9.99	ug/L	100	SW846 8260B
1,1-Dichloroethene	10.0	9.43	ug/L	94	SW846 8260B
1,2-Dichloroethene (total)	20.0	18.4	ug/L	92	SW846 8260B
1,2-Dichloropropane	10.0	9.80	ug/L	98	SW846 8260B
Bromodichloromethane	10.0	10.9	ug/L	109	SW846 8260B
trans-1,3-Dichloropropene	10.0	9.34	ug/L	93	SW846 8260B
2-Hexanone	10.0	12.2	ug/L	122	SW846 8260B
Chlorobenzene	10.0	9.05	ug/L	90	SW846 8260B
Bromoform	10.0	11.5	ug/L	115	SW846 8260B
Ethylbenzene	10.0	9.58	ug/L	96	SW846 8260B
Styrene	10.0	10.5	ug/L	105	SW846 8260B
1,1,2,2-Tetrachloroethane	10.0	10.7	ug/L	107	SW846 8260B
Allyl chloride	10.0	9.23	ug/L	92	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)	10.0	9.72	ug/L	97	SW846 8260B
1,2-Dibromoethane	10.0	10.4	ug/L	104	SW846 8260B
trans-1,4-Dichloro-2-butene	10.0	11.4	ug/L	114	SW846 8260B
Dichlorodifluoromethane (Freon 12)	10.0	11.4	ug/L	114	SW846 8260B
Ethyl methacrylate	10.0	9.26	ug/L	93	SW846 8260B
Methyl methacrylate	10.0	9.38	ug/L	94	SW846 8260B
1,1,1,2-Tetrachloroethane	10.0	10.0	ug/L	100	SW846 8260B
Trichlorofluoromethane	10.0	9.58	ug/L	96	SW846 8260B
Acetonitrile	50.0	56.1	ug/L	112	SW846 8260B
Iodomethane	10.0	17.4	ug/L	174	SW846 8260B
Vinyl acetate	10.0	9.39	ug/L	94	SW846 8260B
Acrolein	50.0	61.2	ug/L	122	SW846 8260B
Isobutanol	200	209	ug/L	105	SW846 8260B

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: SL953 Work Order #...: L4V8J1AC Matrix.....: WATER
LCS Lot-Sample#: F0G290000-421

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Methacrylonitrile	50.0	52.3	ug/L	105	SW846 8260B
1,4-Dioxane	200	183	ug/L	92	SW846 8260B
Chloroprene	10.0	9.06	ug/L	91	SW846 8260B
Vinyl chloride	10.0	10.0	ug/L	100	SW846 8260B
Acetone	10.0	15.6	ug/L	156	SW846 8260B
Methylene chloride	10.0	10.7	ug/L	107	SW846 8260B
Carbon disulfide	10.0	10.6	ug/L	106	SW846 8260B
1,1-Dichloroethane	10.0	9.15	ug/L	92	SW846 8260B
2-Butanone	10.0	11.0	ug/L	110	SW846 8260B
Chloroform	10.0	9.01	ug/L	90	SW846 8260B
cis-1,2-Dichloroethene	10.0	9.33	ug/L	93	SW846 8260B
Propionitrile	50.0	56.6	ug/L	113	SW846 8260B
trans-1,2-Dichloroethene	10.0	9.09	ug/L	91	SW846 8260B
1,1,1-Trichloroethane	10.0	9.81	ug/L	98	SW846 8260B
Carbon tetrachloride	10.0	10.2	ug/L	102	SW846 8260B
1,2-Dichloroethane	10.0	9.83	ug/L	98	SW846 8260B
Benzene	10.0	9.18	ug/L	92	SW846 8260B
Trichloroethene	10.0	9.31	ug/L	93	SW846 8260B
4-Methyl-2-pentanone	10.0	11.8	ug/L	118	SW846 8260B
1,1,2-Trichloroethane	10.0	9.40	ug/L	94	SW846 8260B
Tetrachloroethene	10.0	11.9	ug/L	119	SW846 8260B
Tetrahydrofuran	50.0	54.4	ug/L	109	SW846 8260B
1,4-Dichlorobenzene	10.0	9.08	ug/L	91	SW846 8260B
1-Butanol	100	92.9	ug/L	93	SW846 8260B
Toluene	10.0	8.70	ug/L	87	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	88	(84 - 117)
Dibromofluoromethane	97	(84 - 118)
1,2-Dichloroethane-d4	98	(73 - 122)
4-Bromofluorobenzene	105	(81 - 115)

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: SL953 Work Order #...: L5A7X1AC-LCS Matrix.....: WATER
LCS Lot-Sample#: F0H090000-351 L5A7X1AD-LCSD
Prep Date.....: 07/29/10 Analysis Date..: 07/29/10
Prep Batch #...: 0221351
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
cis-1,3-Dichloropropene	10.0	11.5	ug/L	115		SW846 8260B
	10.0	11.3	ug/L	113	1.3	SW846 8260B
Dibromochloromethane	10.0	11.7	ug/L	117		SW846 8260B
	10.0	10.8	ug/L	108	8.7	SW846 8260B
Chloromethane	10.0	11.6	ug/L	116		SW846 8260B
	10.0	14.4	ug/L	144	22	SW846 8260B
Bromomethane	10.0	15.4	ug/L	154		SW846 8260B
	10.0	18.3	ug/L	183	17	SW846 8260B
Chloroethane	10.0	9.24	ug/L	92		SW846 8260B
	10.0	10.6	ug/L	106	14	SW846 8260B
1,1-Dichloroethene	10.0	10.1	ug/L	101		SW846 8260B
	10.0	9.68	ug/L	97	3.8	SW846 8260B
1,2-Dichloroethene (total)	20.0	19.8	ug/L	99		SW846 8260B
	20.0	19.2	ug/L	96	2.9	SW846 8260B
1,2-Dichloropropane	10.0	10.4	ug/L	104		SW846 8260B
	10.0	9.84	ug/L	98	5.4	SW846 8260B
Bromodichloromethane	10.0	11.0	ug/L	110		SW846 8260B
	10.0	10.6	ug/L	106	4.0	SW846 8260B
trans-1,3-Dichloropropene	10.0	10.7	ug/L	107		SW846 8260B
	10.0	9.50	ug/L	95	12	SW846 8260B
2-Hexanone	10.0	11.3	ug/L	113		SW846 8260B
	10.0	11.9	ug/L	119	5.8	SW846 8260B
Chlorobenzene	10.0	9.47	ug/L	95		SW846 8260B
	10.0	9.20	ug/L	92	2.8	SW846 8260B
Bromoform	10.0	12.2	ug/L	122		SW846 8260B
	10.0	10.8	ug/L	108	13	SW846 8260B
Ethylbenzene	10.0	9.99	ug/L	100		SW846 8260B
	10.0	9.62	ug/L	96	3.8	SW846 8260B
Styrene	10.0	10.5	ug/L	105		SW846 8260B
	10.0	11.2	ug/L	112	6.4	SW846 8260B
1,1,2,2-Tetrachloroethane	10.0	11.3	ug/L	113		SW846 8260B
	10.0	10.4	ug/L	104	8.8	SW846 8260B
Allyl chloride	10.0	10.0	ug/L	100		SW846 8260B
	10.0	9.58	ug/L	96	4.5	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)	10.0	9.31	ug/L	93		SW846 8260B
	10.0	9.34	ug/L	93	0.28	SW846 8260B

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: SL953 Work Order #...: L5A7X1AC-LCS Matrix.....: WATER
LCS Lot-Sample#: F0H090000-351 L5A7X1AD-LCSD

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
1,2-Dibromoethane	10.0	11.2	ug/L	112		SW846 8260B
	10.0	10.5	ug/L	105	7.0	SW846 8260B
trans-1,4-Dichloro-2-butene	10.0	11.6	ug/L	116		SW846 8260B
	10.0	11.6	ug/L	116	0.25	SW846 8260B
Dichlorodifluoromethane (Freon 12)	10.0	9.71	ug/L	97		SW846 8260B
	10.0	11.3	ug/L	113	15	SW846 8260B
Ethyl methacrylate	10.0	9.50	ug/L	95		SW846 8260B
	10.0	8.76	ug/L	88	8.0	SW846 8260B
Methyl methacrylate	10.0	9.24	ug/L	92		SW846 8260B
	10.0	8.98	ug/L	90	2.8	SW846 8260B
1,1,1,2-Tetrachloroethane	10.0	10.8	ug/L	108		SW846 8260B
	10.0	10.1	ug/L	101	6.5	SW846 8260B
Trichlorofluoromethane	10.0	9.44	ug/L	94		SW846 8260B
	10.0	9.94	ug/L	99	5.1	SW846 8260B
Acetonitrile	50.0	45.4	ug/L	91		SW846 8260B
	50.0	57.6	ug/L	115	24	SW846 8260B
Iodomethane	10.0	11.7	ug/L	117		SW846 8260B
	10.0	15.0	ug/L	150	25	SW846 8260B
Vinyl acetate	10.0	10.7	ug/L	107		SW846 8260B
	10.0	10.4	ug/L	104	3.1	SW846 8260B
Acrolein	50.0	56.2	ug/L	112		SW846 8260B
	50.0	62.5	ug/L	125	10	SW846 8260B
Isobutanol	200	173	ug/L	86		SW846 8260B
	200	236	ug/L	118	31	SW846 8260B
Methacrylonitrile	50.0	51.6	ug/L	103		SW846 8260B
	50.0	50.3	ug/L	101	2.6	SW846 8260B
1,4-Dioxane	200	120	ug/L	60		SW846 8260B
	200	203	ug/L	101	51	SW846 8260B
Chloroprene	10.0	9.73	ug/L	97		SW846 8260B
	10.0	9.13	ug/L	91	6.3	SW846 8260B
Vinyl chloride	10.0	8.76	ug/L	88		SW846 8260B
	10.0	10.1	ug/L	101	14	SW846 8260B
Acetone	10.0	13.0	ug/L	130		SW846 8260B
	10.0	14.3	ug/L	143	9.9	SW846 8260B
Methylene chloride	10.0	11.0	ug/L	110		SW846 8260B
	10.0	11.3	ug/L	113	2.8	SW846 8260B
Carbon disulfide	10.0	9.98	ug/L	100		SW846 8260B
	10.0	10.2	ug/L	102	2.4	SW846 8260B

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: SL953 Work Order #...: L5A7X1AC-LCS Matrix.....: WATER
LCS Lot-Sample#: F0H090000-351 L5A7X1AD-LCSD

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
1,1-Dichloroethane	10.0	9.87	ug/L	99		SW846 8260B
	10.0	9.54	ug/L	95	3.5	SW846 8260B
2-Butanone	10.0	9.86	ug/L	99		SW846 8260B
	10.0	11.1	ug/L	111	12	SW846 8260B
Chloroform	10.0	9.91	ug/L	99		SW846 8260B
	10.0	9.46	ug/L	95	4.6	SW846 8260B
cis-1,2-Dichloroethene	10.0	10.1	ug/L	101		SW846 8260B
	10.0	9.79	ug/L	98	3.5	SW846 8260B
Propionitrile	50.0	48.0	ug/L	96		SW846 8260B
	50.0	62.9	ug/L	126	27	SW846 8260B
trans-1,2-Dichloroethene	10.0	9.63	ug/L	96		SW846 8260B
	10.0	9.42	ug/L	94	2.2	SW846 8260B
1,1,1-Trichloroethane	10.0	10.4	ug/L	104		SW846 8260B
	10.0	9.95	ug/L	100	4.1	SW846 8260B
Carbon tetrachloride	10.0	10.8	ug/L	108		SW846 8260B
	10.0	10.5	ug/L	105	2.7	SW846 8260B
1,2-Dichloroethane	10.0	10.5	ug/L	105		SW846 8260B
	10.0	10.4	ug/L	104	0.67	SW846 8260B
Benzene	10.0	9.78	ug/L	98		SW846 8260B
	10.0	9.63	ug/L	96	1.5	SW846 8260B
Trichloroethene	10.0	9.79	ug/L	98		SW846 8260B
	10.0	9.73	ug/L	97	0.63	SW846 8260B
4-Methyl-2-pentanone	10.0	12.0	ug/L	120		SW846 8260B
	10.0	10.8	ug/L	108	11	SW846 8260B
1,1,2-Trichloroethane	10.0	10.6	ug/L	106		SW846 8260B
	10.0	9.80	ug/L	98	8.1	SW846 8260B
Tetrachloroethene	10.0	10.5	ug/L	105		SW846 8260B
	10.0	9.43	ug/L	94	10	SW846 8260B
Tetrahydrofuran	50.0	48.7	ug/L	97		SW846 8260B
	50.0	51.0	ug/L	102	4.5	SW846 8260B
1,4-Dichlorobenzene	10.0	9.32	ug/L	93		SW846 8260B
	10.0	9.18	ug/L	92	1.6	SW846 8260B
1-Butanol	100	77.9	ug/L	78		SW846 8260B
	100	100	ug/L	100	25	SW846 8260B
Toluene	10.0	9.92	ug/L	99		SW846 8260B
	10.0	8.90	ug/L	89	11	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	97	(84 - 117)
	90	(84 - 117)
Dibromofluoromethane	100	(84 - 118)
	98	(84 - 118)
1,2-Dichloroethane-d4	98	(73 - 122)
	102	(73 - 122)

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: SL953 Work Order #...: L5A7X1AC-LCS Matrix.....: WATER
LCS Lot-Sample#: F0H090000-351 L5A7X1AD-LCSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	107	(81 - 115)
	98	(81 - 115)

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/MS Volatiles

Client Lot #...: SL953 Work Order #...: L4QA61AD-MS Matrix.....: WATER
MS Lot-Sample #: F0G270477-001 L4QA61AE-MSD
Date Sampled...: 07/23/10 Date Received..: 07/27/10
Prep Date.....: 07/28/10 Analysis Date..: 07/28/10
Prep Batch #...: 0210421
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
cis-1,3-Dichloropropene	ND	10.0	9.68	ug/L	97		SW846 8260B
	ND	10.0	9.53	ug/L	95	1.5	SW846 8260B
Chloromethane	0.63	10.0	8.30	ug/L	77		SW846 8260B
	0.63	10.0	7.81	ug/L	72	6.1	SW846 8260B
Bromomethane	4.5	10.0	17.3	ug/L	128		SW846 8260B
	4.5	10.0	17.4	ug/L	129	0.63	SW846 8260B
Chloroethane	ND	10.0	8.16	ug/L	82		SW846 8260B
	ND	10.0	7.98	ug/L	80	2.2	SW846 8260B
1,1-Dichloroethene	ND	10.0	8.49	ug/L	85		SW846 8260B
	ND	10.0	8.58	ug/L	86	1.0	SW846 8260B
1,2-Dichloroethene (total)	ND	20.0	16.5	ug/L	83		SW846 8260B
	ND	20.0	16.9	ug/L	84	2.2	SW846 8260B
1,2-Dichloropropane	ND	10.0	8.68	ug/L	87		SW846 8260B
	ND	10.0	8.93	ug/L	89	2.9	SW846 8260B
Bromodichloromethane	ND	10.0	9.23	ug/L	92		SW846 8260B
	ND	10.0	9.38	ug/L	94	1.7	SW846 8260B
trans-1,3-Dichloropropene	ND	10.0	8.81	ug/L	88		SW846 8260B
	ND	10.0	8.82	ug/L	88	0.11	SW846 8260B
2-Hexanone	ND	10.0	8.51	ug/L	85		SW846 8260B
	ND	10.0	8.94	ug/L	89	4.9	SW846 8260B
Chlorobenzene	ND	10.0	7.90	ug/L	79		SW846 8260B
	ND	10.0	7.76	ug/L	78	1.8	SW846 8260B
Bromoform	ND	10.0	9.88	ug/L	99		SW846 8260B
	ND	10.0	9.79	ug/L	98	0.85	SW846 8260B
Ethylbenzene	ND	10.0	8.37	ug/L	84		SW846 8260B
	ND	10.0	8.26	ug/L	83	1.3	SW846 8260B
Styrene	ND	10.0	8.68	ug/L	87		SW846 8260B
	ND	10.0	8.59	ug/L	86	1.0	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	10.0	9.27	ug/L	93		SW846 8260B
	ND	10.0	9.28	ug/L	93	0.10	SW846 8260B
Dibromochloromethane	ND	10.0	9.65	ug/L	96		SW846 8260B
	ND	10.0	9.33	ug/L	93	3.4	SW846 8260B
Allyl chloride	ND	10.0	8.42	ug/L	84		SW846 8260B
	ND	10.0	8.55	ug/L	86	1.5	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)	ND	10.0	7.99	ug/L	80		SW846 8260B
	ND	10.0	7.84	ug/L	78	2.0	SW846 8260B

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: SL953 Work Order #...: L4QA61AD-MS Matrix.....: WATER
MS Lot-Sample #: F0G270477-001 L4QA61AE-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
1,2-Dibromoethane	ND	10.0	9.15	ug/L	91		SW846 8260B
	ND	10.0	9.33	ug/L	93	2.0	SW846 8260B
trans-1,4-Dichloro-2-butene	ND	10.0	9.84	ug/L	98		SW846 8260B
	ND	10.0	9.61	ug/L	96	2.3	SW846 8260B
Dichlorodifluoromethane (Freon 12)	ND	10.0	8.82	ug/L	88		SW846 8260B
	ND	10.0	8.76	ug/L	88	0.76	SW846 8260B
Ethyl methacrylate	ND	10.0	8.09	ug/L	81		SW846 8260B
	ND	10.0	8.13	ug/L	81	0.50	SW846 8260B
Methyl methacrylate	ND	10.0	7.42	ug/L	74		SW846 8260B
	ND	10.0	7.55	ug/L	76	1.8	SW846 8260B
1,1,1,2-Tetrachloroethane	ND	10.0	8.89	ug/L	89		SW846 8260B
	ND	10.0	9.01	ug/L	90	1.4	SW846 8260B
Trichlorofluoromethane	ND	10.0	7.73	ug/L	77		SW846 8260B
	ND	10.0	7.67	ug/L	77	0.75	SW846 8260B
Acetonitrile	ND	50.0	37.8	ug/L	76		SW846 8260B
	ND	50.0	39.6	ug/L	79	4.5	SW846 8260B
Iodomethane	4.3	10.0	18.7	ug/L	144		SW846 8260B
	4.3	10.0	19.7	ug/L	155	5.5	SW846 8260B
	Qualifiers: T						
Vinyl acetate	ND	10.0	9.12	ug/L	91		SW846 8260B
	ND	10.0	8.86	ug/L	89	3.0	SW846 8260B
Acrolein	ND	50.0	47.2	ug/L	94		SW846 8260B
	ND	50.0	50.7	ug/L	101	7.1	SW846 8260B
Isobutanol	ND	200	146	ug/L	73		SW846 8260B
	ND	200	154	ug/L	77	5.5	SW846 8260B
Methacrylonitrile	ND	50.0	42.5	ug/L	85		SW846 8260B
	ND	50.0	42.3	ug/L	85	0.47	SW846 8260B
1,4-Dioxane	ND	200	132	ug/L	66		SW846 8260B
	ND	200	128	ug/L	64	3.6	SW846 8260B
Chloroprene	ND	10.0	8.18	ug/L	82		SW846 8260B
	ND	10.0	8.31	ug/L	83	1.5	SW846 8260B
Vinyl chloride	ND	10.0	7.85	ug/L	78		SW846 8260B
	ND	10.0	7.82	ug/L	78	0.40	SW846 8260B
Acetone	ND	10.0	9.22	ug/L	92		SW846 8260B
	ND	10.0	9.31	ug/L	93	0.93	SW846 8260B
Methylene chloride	ND	10.0	8.53	ug/L	85		SW846 8260B
	ND	10.0	8.38	ug/L	84	1.8	SW846 8260B
Carbon disulfide	0.053	10.0	8.78	ug/L	87		SW846 8260B
	0.053	10.0	8.63	ug/L	86	1.7	SW846 8260B

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: SL953 Work Order #...: L4QA61AD-MS Matrix.....: WATER
MS Lot-Sample #: F0G270477-001 L4QA61AE-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
1,1-Dichloroethane	ND	10.0	8.45	ug/L	85		SW846 8260B
	ND	10.0	8.47	ug/L	85	0.22	SW846 8260B
2-Butanone	ND	10.0	8.03	ug/L	80		SW846 8260B
	ND	10.0	8.67	ug/L	87	7.7	SW846 8260B
Chloroform	ND	10.0	8.43	ug/L	84		SW846 8260B
	ND	10.0	8.43	ug/L	84	0.02	SW846 8260B
cis-1,2-Dichloroethene	ND	10.0	8.33	ug/L	83		SW846 8260B
	ND	10.0	8.50	ug/L	85	2.1	SW846 8260B
Propionitrile	ND	50.0	42.2	ug/L	84		SW846 8260B
	ND	50.0	41.8	ug/L	84	0.95	SW846 8260B
trans-1,2-Dichloroethene	ND	10.0	8.18	ug/L	82		SW846 8260B
	ND	10.0	8.38	ug/L	84	2.4	SW846 8260B
1,1,1-Trichloroethane	ND	10.0	9.02	ug/L	90		SW846 8260B
	ND	10.0	9.00	ug/L	90	0.18	SW846 8260B
Carbon tetrachloride	ND	10.0	9.40	ug/L	94		SW846 8260B
	ND	10.0	9.31	ug/L	93	1.0	SW846 8260B
1,2-Dichloroethane	ND	10.0	9.00	ug/L	90		SW846 8260B
	ND	10.0	8.93	ug/L	89	0.79	SW846 8260B
Benzene	ND	10.0	8.32	ug/L	83		SW846 8260B
	ND	10.0	8.36	ug/L	84	0.49	SW846 8260B
Trichloroethene	ND	10.0	8.15	ug/L	81		SW846 8260B
	ND	10.0	8.10	ug/L	81	0.59	SW846 8260B
4-Methyl-2-pentanone	ND	10.0	9.20	ug/L	92		SW846 8260B
	ND	10.0	9.06	ug/L	91	1.5	SW846 8260B
1,1,2-Trichloroethane	ND	10.0	8.63	ug/L	86		SW846 8260B
	ND	10.0	8.60	ug/L	86	0.36	SW846 8260B
Tetrachloroethene	ND	10.0	8.33	ug/L	83		SW846 8260B
	ND	10.0	8.36	ug/L	84	0.45	SW846 8260B
Tetrahydrofuran	ND	50.0	39.8	ug/L	80		SW846 8260B
	ND	50.0	41.2	ug/L	82	3.2	SW846 8260B
1,4-Dichlorobenzene	ND	10.0	7.95	ug/L	80		SW846 8260B
	ND	10.0	7.68	ug/L	77	3.5	SW846 8260B
1-Butanol	ND	100	66.3	ug/L	66		SW846 8260B
	ND	100	75.2	ug/L	75	13	SW846 8260B
Toluene	ND	10.0	8.40	ug/L	84		SW846 8260B
	ND	10.0	8.17	ug/L	82	2.8	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	95	(70 - 127)
	95	(70 - 127)

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: SL953 Work Order #...: L4QA61AD-MS Matrix.....: WATER
MS Lot-Sample #: F0G270477-001 L4QA61AE-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	96	(71 - 128)
	99	(71 - 128)
1,2-Dichloroethane-d4	98	(65 - 128)
	99	(65 - 128)
4-Bromofluorobenzene	104	(69 - 124)
	103	(69 - 124)

NOTE(S):

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

Bold print denotes control parameters

T Spike sample recovery is outside control limits.

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: SL953 Work Order #...: L4TCW1AD-MS Matrix.....: WATER
MS Lot-Sample #: F0G280554-001 L4TCW1AE-MSD
Date Sampled...: 07/26/10 Date Received..: 07/28/10
Prep Date.....: 07/29/10 Analysis Date..: 07/29/10
Prep Batch #...: 0221351
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
cis-1,3-Dichloropropene	ND	10.0	9.61	ug/L	96		SW846 8260B
	ND	10.0	9.56	ug/L	96	0.54	SW846 8260B
Chloromethane	ND	10.0	8.66	ug/L	87		SW846 8260B
	ND	10.0	9.28	ug/L	93	7.0	SW846 8260B
Bromomethane	0.64	10.0	18.0	ug/L	173		SW846 8260B
	Qualifiers: T						
	0.64	10.0	19.4	ug/L	188	8.0	SW846 8260B
	Qualifiers: T						
Chloroethane	ND	10.0	7.30	ug/L	73		SW846 8260B
	ND	10.0	7.66	ug/L	77	4.7	SW846 8260B
1,1-Dichloroethene	ND	10.0	8.56	ug/L	86		SW846 8260B
	ND	10.0	8.47	ug/L	85	1.0	SW846 8260B
1,2-Dichloroethene (total)	ND	20.0	17.1	ug/L	85		SW846 8260B
	ND	20.0	17.0	ug/L	85	0.35	SW846 8260B
1,2-Dichloropropane	ND	10.0	8.87	ug/L	89		SW846 8260B
	ND	10.0	8.93	ug/L	89	0.70	SW846 8260B
Bromodichloromethane	ND	10.0	9.48	ug/L	95		SW846 8260B
	ND	10.0	9.06	ug/L	91	4.5	SW846 8260B
trans-1,3-Dichloropropene	ND	10.0	9.02	ug/L	90		SW846 8260B
	ND	10.0	8.82	ug/L	88	2.2	SW846 8260B
2-Hexanone	ND	10.0	8.88	ug/L	89		SW846 8260B
	ND	10.0	8.97	ug/L	90	1.1	SW846 8260B
Chlorobenzene	ND	10.0	8.02	ug/L	80		SW846 8260B
	ND	10.0	7.76	ug/L	78	3.2	SW846 8260B
Bromoform	ND	10.0	9.95	ug/L	99		SW846 8260B
	ND	10.0	9.50	ug/L	95	4.6	SW846 8260B
Ethylbenzene	ND	10.0	8.48	ug/L	85		SW846 8260B
	ND	10.0	8.10	ug/L	81	4.6	SW846 8260B
Styrene	ND	10.0	8.43	ug/L	84		SW846 8260B
	ND	10.0	8.27	ug/L	83	2.0	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	10.0	9.12	ug/L	91		SW846 8260B
	ND	10.0	9.07	ug/L	91	0.62	SW846 8260B
Dibromochloromethane	ND	10.0	9.32	ug/L	93		SW846 8260B
	ND	10.0	9.36	ug/L	94	0.41	SW846 8260B
Allyl chloride	ND	10.0	8.78	ug/L	88		SW846 8260B
	ND	10.0	8.72	ug/L	87	0.67	SW846 8260B

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: SL953 Work Order #...: L4TCW1AD-MS Matrix.....: WATER
MS Lot-Sample #: F0G280554-001 L4TCW1AE-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
1,2-Dibromo-3-chloropropane (DBCP)	ND	10.0	8.73	ug/L	87		SW846 8260B
	ND	10.0	8.64	ug/L	86	1.0	SW846 8260B
1,2-Dibromoethane	ND	10.0	9.37	ug/L	94		SW846 8260B
	ND	10.0	9.25	ug/L	92	1.3	SW846 8260B
trans-1,4-Dichloro-2-butene	ND	10.0	9.22	ug/L	92		SW846 8260B
	ND	10.0	8.60	ug/L	86	7.0	SW846 8260B
Dichlorodifluoromethane (Freon 12)	ND	10.0	8.25	ug/L	83		SW846 8260B
	ND	10.0	8.28	ug/L	83	0.37	SW846 8260B
Ethyl methacrylate	ND	10.0	7.89	ug/L	79		SW846 8260B
	ND	10.0	8.13	ug/L	81	3.0	SW846 8260B
Methyl methacrylate	ND	10.0	7.69	ug/L	77		SW846 8260B
	ND	10.0	8.26	ug/L	83	7.1	SW846 8260B
1,1,1,2-Tetrachloroethane	ND	10.0	9.09	ug/L	91		SW846 8260B
	ND	10.0	9.06	ug/L	91	0.30	SW846 8260B
Trichlorofluoromethane	ND	10.0	7.73	ug/L	77		SW846 8260B
	ND	10.0	7.65	ug/L	76	1.1	SW846 8260B
Acetonitrile	ND	50.0	33.1	ug/L	66		SW846 8260B
	ND	50.0	37.9	ug/L	76	13	SW846 8260B
Iodomethane	0.74	10.0	17.1	ug/L	163		SW846 8260B
	Qualifiers:		T				
	0.74	10.0	18.2	ug/L	175	6.7	SW846 8260B
	Qualifiers:		T				
Vinyl acetate	ND	10.0	9.08	ug/L	91		SW846 8260B
	ND	10.0	9.21	ug/L	92	1.4	SW846 8260B
Acrolein	ND	50.0	49.3	ug/L	99		SW846 8260B
	ND	50.0	46.7	ug/L	93	5.4	SW846 8260B
Isobutanol	ND	200	146	ug/L	73		SW846 8260B
	ND	200	145	ug/L	72	0.82	SW846 8260B
Methacrylonitrile	ND	50.0	42.4	ug/L	85		SW846 8260B
	ND	50.0	42.5	ug/L	85	0.23	SW846 8260B
1,4-Dioxane	ND	200	143	ug/L	72		SW846 8260B
	ND	200	144	ug/L	72	0.55	SW846 8260B
Chloroprene	ND	10.0	8.43	ug/L	84		SW846 8260B
	ND	10.0	8.33	ug/L	83	1.2	SW846 8260B
Vinyl chloride	ND	10.0	7.77	ug/L	78		SW846 8260B
	ND	10.0	7.66	ug/L	77	1.3	SW846 8260B

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: SL953 Work Order #...: L4TCW1AD-MS Matrix.....: WATER
MS Lot-Sample #: F0G280554-001 L4TCW1AE-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Acetone	ND	10.0	9.87	ug/L	99		SW846 8260B
	ND	10.0	9.50	ug/L	95	3.9	SW846 8260B
Methylene chloride	ND	10.0	8.39	ug/L	84		SW846 8260B
	ND	10.0	8.40	ug/L	84	0.08	SW846 8260B
Carbon disulfide	0.084	10.0	8.42	ug/L	83		SW846 8260B
	0.084	10.0	8.48	ug/L	84	0.72	SW846 8260B
1,1-Dichloroethane	ND	10.0	8.68	ug/L	87		SW846 8260B
	ND	10.0	8.63	ug/L	86	0.55	SW846 8260B
2-Butanone	ND	10.0	7.21	ug/L	72		SW846 8260B
	ND	10.0	8.34	ug/L	83	15	SW846 8260B
Chloroform	ND	10.0	8.28	ug/L	83		SW846 8260B
	ND	10.0	8.36	ug/L	84	0.98	SW846 8260B
cis-1,2-Dichloroethene	ND	10.0	8.62	ug/L	86		SW846 8260B
	ND	10.0	8.51	ug/L	85	1.3	SW846 8260B
Propionitrile	ND	50.0	41.4	ug/L	83		SW846 8260B
	ND	50.0	40.9	ug/L	82	1.4	SW846 8260B
trans-1,2-Dichloroethene	ND	10.0	8.46	ug/L	85		SW846 8260B
	ND	10.0	8.51	ug/L	85	0.62	SW846 8260B
1,1,1-Trichloroethane	ND	10.0	9.17	ug/L	92		SW846 8260B
	ND	10.0	9.13	ug/L	91	0.41	SW846 8260B
Carbon tetrachloride	ND	10.0	9.47	ug/L	95		SW846 8260B
	ND	10.0	9.62	ug/L	96	1.5	SW846 8260B
1,2-Dichloroethane	ND	10.0	9.15	ug/L	91		SW846 8260B
	ND	10.0	9.16	ug/L	92	0.12	SW846 8260B
Benzene	ND	10.0	8.46	ug/L	85		SW846 8260B
	ND	10.0	8.44	ug/L	84	0.30	SW846 8260B
Trichloroethene	ND	10.0	8.31	ug/L	83		SW846 8260B
	ND	10.0	8.10	ug/L	81	2.5	SW846 8260B
4-Methyl-2-pentanone	ND	10.0	8.96	ug/L	90		SW846 8260B
	ND	10.0	8.76	ug/L	88	2.2	SW846 8260B
1,1,2-Trichloroethane	ND	10.0	8.80	ug/L	88		SW846 8260B
	ND	10.0	8.76	ug/L	88	0.47	SW846 8260B
Tetrachloroethene	ND	10.0	8.62	ug/L	86		SW846 8260B
	ND	10.0	8.41	ug/L	84	2.5	SW846 8260B
Tetrahydrofuran	ND	50.0	42.4	ug/L	85		SW846 8260B
	ND	50.0	42.0	ug/L	84	0.87	SW846 8260B
1,4-Dichlorobenzene	ND	10.0	7.75	ug/L	77		SW846 8260B
	ND	10.0	7.82	ug/L	78	0.98	SW846 8260B
1-Butanol	ND	100	66.6	ug/L	67		SW846 8260B
	ND	100	62.5	ug/L	62	6.4	SW846 8260B
Toluene	ND	10.0	8.48	ug/L	85		SW846 8260B
	ND	10.0	8.32	ug/L	83	1.9	SW846 8260B

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: SL953 Work Order #...: L4TCW1AD-MS Matrix.....: WATER
MS Lot-Sample #: F0G280554-001 L4TCW1AE-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	99	(70 - 127)
	97	(70 - 127)
Dibromofluoromethane	98	(71 - 128)
	99	(71 - 128)
1,2-Dichloroethane-d4	98	(65 - 128)
	101	(65 - 128)
4-Bromofluorobenzene	103	(69 - 124)
	101	(69 - 124)

NOTE(S):

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

Bold print denotes control parameters

T Spike sample recovery is outside control limits.