JULY 24, 2012 REV. 2

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

ANALYTICAL REPORT

I12-021

Lot #: F2E230450
SDG #: SL1271

Scot Fitzgerald

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

TESTAMERICA LABORATORIES, INC.

"for"

Jayna Awalt
Project Manager

June 22, 2012

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

CASE NARRATIVE

CH2MHill Plateau Remediation Company
P.O. Box 1600
MS B3-60
Richland, Washington 99352
June 22, 2012
Attention: Scot Fitzgerald

TestAmerica Laboratories, Inc.

SDG	: SL1271
Number of Samples	: 17 samples
Sample Matrix	: Water
Data Deliverable	: Summary
Date SDG Closed	: May 25, 2012

II. Introduction

Between May 23, 2012 and May 25, 2012, 17 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. This case narrative has been revised to include corrected receipt dates for samples included in pages 135-144, to include Method Blank statement for Method 8270, and to include missing MDLs for analytes included in Method 8270. The SDG closure date has been changed to accommodate the samples that were received late.

The following SAFs are associated with this SDG: I12-021, I12-025, and W12-003

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.

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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: 2150099

The samples were analyzed at a dilution based upon laboratory screening information for Acetone, Methylene chloride, Trichloroethene, and Tetrachloroethene. The reporting limit has been adjusted for the dilution. These analytes have been qualified accordingly with a "D" flag in the associated samples.
Affected Samples:
F2E240419 (1): B2L6K5
F2E240419 (2): B2L6K6
F2E240419 (3): B2L6K7

The LCS recovery for Propionitrile is outside the established QC limits. This analyte was not detected in the associated samples, and thus this excursion does not affect the data.
Affected Samples:
F2E230450 (1): B2L672
F2E230451 (1): B2KWK4
F2E230451 (2): B2KWK3
F2E240419 (1): B2L6K5
F2E240419 (2): B2L6K6
F2E240419 (3): B2L6K7

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The MSD recovery for Propionitrile of F2E230450-001 is outside the established QC limits. Proprionitrile had passing recoveries in the MS, a second MS/MSD and the LCS. This analyte has been qualified accordingly with an "N" flag in the associated samples.
Affected Samples:
F2E230450 (1): B2L672
F2E230451 (1): B2KWK4
F2E230451 (2): B2KWK3
F2E240419 (1): B2L6K5
F2E240419 (2): B2L6K6
F2E240419 (3): B2L6K7

The CCV %Ds for Dichlorodifluoromethane is outside the upper QC limits. The associated sample results were less than the reporting limit; therefore the excursion does not affect the data.
Affected Samples:
F2E230451 (1): B2KWK4
F2E230451 (2): B2KWK3

Semivolatiles

Batch: 2146061

Dimethyl phthalate was detected in the Method Blank at a concentration above the reporting limit. This analyte has been qualified accordingly with a "B" flag in the associated sample.
Affected Samples:
F2E230451 (1): B2KWK4

The CCV recoveries are outside the upper QC limit (greater than 20% D) for Famphur and a,a-Dimethyl-phenethylamine 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:
F2E230451 (1): B2KWK4
F2E230451 (2): B2KWK3

Sample exhibited poor Surrogate recovery. Laboratory QC practices allow for one acid surrogate and/or one base surrogate recovery excursion without necessitating re-extraction/re-analysis. Sample extraction efficiency and compliance is demonstrated by the remaining acceptable surrogate recoveries. Sample results are reported with this narrative.
Affected Samples:
F2E230451 (2): B2KWK3

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Pesticides

Batch: 2146101

The MSD recovery for Endosulfan I is outside the established QC limits. The RPD value is within method acceptance criteria indicating possible matrix interference. Method performance is demonstrated by acceptable LCS recovery. This analyte was flagged accordingly with an "N" flag in the associated samples.
Affected Samples:
F2E230451 (1): B2KWK4
F2E230451 (2): B2KWK3

Sample Surrogate recovery is outside established QC limits. Samples were reprepared and reanalyzed outside holding time. The reanalysis yielded acceptable results for the sample (Batch 2156081). However in the re-extracts, the Blank and LSC had low surrogate recovery and the LCS and LCSD had targets that recovered low. In both extracts the sample is ND. The first analysis is reported and the re-analysis is set not to report. The sample is now outside 2x hold time.
Affected Samples:
F2E230451 (1): B2KWK4

ICP Metals

Batch: 2151097

Sodium was detected in the Method Blank at a concentration above the MDL but below the RL. The concentration in the sample is greater than 5 times the concentration detected in the Method Blank; therefore, no qualification is required.
Affected Samples:
F2E240419 (1): B2L6K5
F2E240419 (2): B2L6K6
F2E240419 (3): B2L6K7

Zinc was detected in the Method Blank at a concentration above the MDL but below the RL. This analyte has been qualified accordingly with a "C" flag in the associated samples.
Affected Samples:
F2E240419 (1): B2L6K5
F2E240419 (2): B2L6K6
F2E240419 (3): B2L6K7

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ICPMS Metals

Batch: 2151098

The Internal Standard was outside QC limits in the CCV, ICSAB and the CCB. All analytes were within acceptable limits, showing that there was no bias.
Affected Samples:
F2E240419 (1): B2L6K5
F2E240419 (2): B2L6K6
F2E240419 (3): B2L6K7

Due to LDR failures, the LDR has been lowered for Antimony (500ppb). The MS/MSD was above the LDR. The MS/MSD was within acceptable QC limits and is reported as an estimated value.
Affected Samples:
F2E240419 (1): B2L6K5
F2E240419 (2): B2L6K6
F2E240419 (3): B2L6K7

TOX

Batch: 2151046

TOX was detected in the Method Blank at a concentration above the MDL but below the RL. The concentration in the sample is greater than 5 times the concentration detected in the Method Blank; therefore, no qualification is required.
Affected Samples:
F2E240419 (1): B2L6K5
F2E240419 (2): B2L6K6
F2E240419 (3): B2L6K7
F2E240419 (4): B2L6L5
F2E240419 (5): B2L6L4
F2E240419 (6): B2L6L6
F2E240419 (7): B2L6L7

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The associated samples all required dilution, due to high concentrations of the target analyte, for TOX. Additionally, all samples in TOX batch 2151046 were re-dripped at dilution, with headspace in the bottles, on 5/31/12, as the original dripping of these samples on 5/30/12 resulted in non-usable carbon columns, due to the high concentrations of TOX in the samples. The reporting limit has been adjusted for those targets reported from the dilution. The analyte has been qualified accordingly with a "D" flag in the associated samples.
Affected Samples:
F2E240419 (1): B2L6K5
F2E240419 (2): B2L6K6
F2E240419 (3): B2L6K7
F2E240419 (4): B2L6L5
F2E240419 (5): B2L6L4
F2E240419 (6): B2L6L6
F2E240419 (7): B2L6L7

Ion Chromatography

Batches: 2146135, 2146136

The associated samples were received as 48 hold was expiring for Nitrite in batch 2146135 and Nitrate in batch 2146136. All of the associated samples were analyzed within 2x hold, except for sample F2E240419-012 for Nitrate, which required re-analysis on 5/29/12, due to mis-injection in the 5/25 analysis.
Affected Samples:
F2E240419 (8): B2L6K8
F2E240419 (9): B2L6K9
F2E240419 (10): B2L6L0
F2E240419 (11): B2L6L1
F2E240419 (12): B2L6L2
F2E240419 (13): B2L6L3

The associated sample was received as 48 hour hold was expiring for Nitrate, on 5/25/12. Due to mis-injection, however, the diluted result for Nitrate was not reportable for this sample. Thus, it was re-analyzed on 5/29/12, out of 2x hold. The reported, diluted result from the 5/29/12 analysis was consistent with the non-reported original undiluted analysis on 5/25/12.
Affected Samples:
F2E240419 (12): B2L6L2

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Batches: 2146132, 2146136

The samples were analyzed at a dilution for Chloride and Nitrate, due to high concentrations of target analytes. The reporting limit has been adjusted only for those targets reported from the dilution. The analytes are qualified with a "D" flag in the associated samples.
Affected Samples:
F2E240419 (1): B2L6K5
F2E240419 (2): B2L6K6
F2E240419 (3): B2L6K7
F2E240419 (8): B2L6K8
F2E240419 (9): B2L6K9
F2E240419 (10): B2L6L0
F2E240419 (11): B2L6L1
F2E240419 (12): B2L6L2
F2E240419 (13): B2L6L3

Batches: 2146132, 2146133, 2146135

The Anion Matrix Spike solution contains all routine anions. Spiking technique, sample preparation and method compliance is demonstrated by the remaining acceptable MS recoveries. Poor matrix spike recoveries for Chloride, Fluoride, and Nitrite are attributed to matrix interference. The analytes have been qualified accordingly with an "N" flag in the associated samples.
Affected Samples:
F2E240419 (1): B2L6K5
F2E240419 (2): B2L6K6
F2E240419 (3): B2L6K7
F2E240419 (8): B2L6K8
F2E240419 (9): B2L6K9
F2E240419 (10): B2L6L0
F2E240419 (11): B2L6L1
F2E240419 (12): B2L6L2
F2E240419 (13): B2L6L3

Batches: 2150067

The associated sample was analyzed at dilution, due to high concentrations of the target analytes, for Nitrate. The reporting limit has been adjusted only for those targets reported from the dilution. The samples have been qualified accordingly with a "D" flag in the associated samples.
Affected Samples:
F2E240419 (12): B2L6L2

TestAmerica
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CH2M Hill Plateau Remediation Company
June 22, 2012
SDG: SL1271

TestAmerica Laboratories, Inc.

Conductivity

Batch: 2145085

Method Blank Conductivity was detected at a concentration above the MDL but below the RL. The concentration in the sample is greater than 5 times the concentration detected in the Method Blank; therefore, no qualification is required.

There were no observations or nonconformances for the following methods: PAHs, Total Cyanide, and TOC.

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:

Chenise Y. Lambert-Sykes
St. Louis Project Manager

SAMPLE ISSUE RESOLUTION

SIR NUM	SDR12-265
REV NUM	0
DATE INITIATED	5/23/2012

SAMPLE EVENT INFORMATION

SAF NUM(S)	I12-021
OPERABLE UNIT(S)	100-KR-4
PROJECT(S)	CERC12
SAMPLE EVENT TITLE(S)	CERC12
LABORATORY	TestAmerica St. Louis

SAMPLING INFORMATION

NUMBER OF SAMPLES	5
SAMPLE NUMBERS	B2L6K8, B2L6L4, B2L6L5, B2L6L6, B2L6L7
SAMPLE MATRIX	WATER
COLLECTION DATE	-
SDG NUM	SL1271

ISSUE BACKGROUND

CLASS	Laboratory Issue
TYPE	Other Laboratory Issue (Specify)
DESCRIPTION	The cooler For COC number I12-021-521 containing five samples was not received on today, 05-23-12. FEDEX has been contacted and we expect to receive the cooler on Friday, 05-24-12 before 10:30am. Method 300.0 (Anions), 9060 (TOC) and 9020 (TOX) are the requested analyses for the samples within this cooler. Due to the delay in receipts, it is possible that the Anions (Sample ID B2L6K8) will be analyzed outside of holding time. There is also the possibility that all of the samples will be received outside of the temperature requirements. The samples may still be analyzed within two-times hold.

DISPOSITION

DESCRIPTION	PROPOSED DISPOSITION: TASL PROPOSES TO ANALYZE UPON RECEIPT AND NARRATE THE EXCURSION IN THE CASE NARRATIVE.
JUSTIFICATION	ACCEPTED DISPOSITION: Accept the proposed disposition. SUBMITTED BY: Chenise Y. Lambert-Sykes/TASL DATE: 5/23/12 ACCEPTED BY: Karen Waters-Husted/CHPRC DATE: 5/24/12

SAMPLE ISSUE RESOLUTION

SIR NUM	SDR12-269
REV NUM	0
DATE INITIATED	5/29/2012

SAMPLE EVENT INFORMATION

SAF NUM(S)	I12-021
OPERABLE UNIT(S)	100-KR-4
PROJECT(S)	CERC12
SAMPLE EVENT TITLE(S)	CERC12
LABORATORY	TestAmerica St. Louis

SAMPLING INFORMATION

NUMBER OF SAMPLES	1
SAMPLE NUMBERS	B2L6L2
SAMPLE MATRIX	WATER
COLLECTION DATE	-
SDG NUM	SL1271

ISSUE BACKGROUND

CLASS	Laboratory Issue
TYPE	Analysis Holding Time Exceeded
DESCRIPTION	The listed samples for 300.0 Nitrate were received a day later than expected. The initially undiluted analysis was performed within 2X hold time, but required a dilution run. The dilution is being performed outside 2X hold.

DISPOSITION

DESCRIPTION	PROPOSED DISPOSITION: TASL PROPOSES TO REPORT THE DILUTED, OUTSIDE 2X HOLD TIME ANALYSIS AS CONFIRMATION OF THE INITIAL UNDILUTED ANALYSIS AND NARRATE THE EXCURSION IN THE CASE NARRATIVE.
JUSTIFICATION	ACCEPTED DISPOSITION: Accept the proposed resolution.

SUBMITTED BY: Chenise Y. Lambert-Sykes/TASL DATE: 5/29/12

ACCEPTED BY: Karen Waters-Husted/CHPRC DATE: 5/30/12

SAMPLE ISSUE RESOLUTION

SIR NUM	SDR12-274
REV NUM	0
DATE INITIATED	6/1/2012

SAMPLE EVENT INFORMATION

SAF NUM(S)	I12-021
OPERABLE UNIT(S)	100-KR-4
PROJECT(S)	CERC12
SAMPLE EVENT TITLE(S)	CERC12
LABORATORY	TestAmerica St. Louis

SAMPLING INFORMATION

NUMBER OF SAMPLES	7
SAMPLE NUMBERS	B2L6K5, B2L6K6, B2L6K7, B2L6L4, B2L6L5, B2L6L6, B2L6L7
SAMPLE MATRIX	WATER
COLLECTION DATE	5/23/2012 - 5/23/2012
SDG NUM	SL1271

ISSUE BACKGROUND

CLASS	General Laboratory Direction
TYPE	Other General Laboratory Direction (Specify)
DESCRIPTION	For 9020 TOX analysis on sample B2L6K5, the initial analysis indicated a high concentration, such that it required a 10X dilution. The lab then inquired whether the remaining six samples under this SAF should be initially analyzed at a dilution, thereby increasing instrument efficiency while delivering more accurate results by limiting sample matrix interference issues.

DISPOSITION

DESCRIPTION

Proposed Disposition:

TASL proposes to report the diluted analysis of sample B2L6K5, and perform similar dilutions on the remaining samples of the SAF based on similar geographical sampling location. This will be narrated in the case narrative.

JUSTIFICATION

Accepted Disposition: Accept Proposed Disposition.

Submitted by:	Chenise Y. Lambert-Sykes / TASL	Date:	6/1/2012
Accepted by:	J.G. Douglas / CHPRC	Date:	6/1/2012

SAMPLE ISSUE RESOLUTION

SIR NUM	SDR12-282
REV NUM	0
DATE INITIATED	6/25/2012

SAMPLE EVENT INFORMATION

SAF NUM(S)	I12-025
OPERABLE UNIT(S)	100-NR-2
PROJECT(S)	CERC12
SAMPLE EVENT TITLE(S)	CERC12
LABORATORY	TestAmerica St. Louis

SAMPLING INFORMATION

NUMBER OF SAMPLES	1
SAMPLE NUMBERS	B2KWK4
SAMPLE MATRIX	WATER
COLLECTION DATE	5/21/2012 - 5/21/2012
SDG NUM	SL1271

ISSUE BACKGROUND

CLASS	Laboratory Issue
TYPE	Analysis Holding Time Exceeded
DESCRIPTION	For 8081 Pesticide analysis on sample B2KWK4, the Sample Surrogate recovery for Decachlorobiphenyl was outside the lower QC limit. Sample was re-extracted outside hold time but within the two times hold time. The re-analysis yielded acceptable Surrogate recovery, however the Blank and LCS Surrogates recovered low. The sample results are non-detect in both of the analyses. The sample is now outside of two times hold.

DISPOSITION

DESCRIPTION	PROPOSED DISPOSITION: TASL PROPOSES TO REPORT THE ORIGINAL, IN HOLD ANALYSIS WITH THE LOW SURROGATE RECOVERY AND NARRATE THE EXCURSION IN THE CASE NARRATIVE.
JUSTIFICATION	ACCEPTED DISPOSITION: Accept proposed resolution.

SUBMITTED BY: Chenise Lambert-Sykes/TASL DATE: 6/25/12

ACCEPTED BY: Karen Waters-Husted/CHPRC DATE: 6/25/12

SAMPLE ISSUE RESOLUTION

SIR NUM	SDR12-294
REV NUM	0
DATE INITIATED	7/11/2012

SAMPLE EVENT INFORMATION

SAF NUM(S)	W12-003, I12-025, I12-021
OPERABLE UNIT(S)	100-KR-4, NONE, 100-NR-2
PROJECT(S)	RCRA12, CERC12
SAMPLE EVENT TITLE(S)	RCRA12, CERC12
LABORATORY	TestAmerica St. Louis

SAMPLING INFORMATION

NUMBER OF SAMPLES	4
SAMPLE NUMBERS	B2KFP0, B2KWK3, B2KWK4, B2L672
SAMPLE MATRIX	WATER
COLLECTION DATE	5/17/2012 - 5/21/2012
SDG NUM	SL1271

ISSUE BACKGROUND

CLASS	Field Sampling Issue
TYPE	Other Field Sampling Issue (Specify)
DESCRIPTION	Sample numbers B2KFP0, B2KWK4, B2KWK3 and B2L672 on chains of custody W12-003-244, I12-025-007, I12-025-006 and I12-021-428 did not have custody seals present on the bottles when received at the laboratory.

DISPOSITION

DESCRIPTION	PROPOSED DISPOSITION: Document the issue and close the SIR
JUSTIFICATION	ACCEPTED DISPOSITION: Accept the proposed disposition.

SUBMITTED BY: SUSAN PUCKETT/CHPRC DATE: 7/11/12
ACCEPTED BY: SUSAN PUCKETT/CHPRC DATE: 7/11/12

SAMPLE ISSUE RESOLUTION

SIR NUM	SDR12-295
REV NUM	0
DATE INITIATED	7/10/2012

SAMPLE EVENT INFORMATION

SAF NUM(S)	I12-025
OPERABLE UNIT(S)	100-NR-2
PROJECT(S)	CERC12
SAMPLE EVENT TITLE(S)	CERC12
LABORATORY	TestAmerica St. Louis

SAMPLING INFORMATION

NUMBER OF SAMPLES	1
SAMPLE NUMBERS	B2KWK3
SAMPLE MATRIX	WATER
COLLECTION DATE	5/21/2012 - 5/21/2012
SDG NUM	SL1271

ISSUE BACKGROUND

CLASS	Chain of Custody Issue (Field)
TYPE	No/Illegible Relinquisher/Receiver Listed on COC
DESCRIPTION	On chain of custody I12-025-006 for sample number B2KWK3, the fourth line "relinquished by" is missing a name creating a broken chain.

DISPOSITION

DESCRIPTION	PROPOSED DISPOSITION: Document the issue and close the SIR.
JUSTIFICATION	ACCEPTED DISPOSITION: Accept the proposed resolution.

SUBMITTED BY: Susan Puckett/CHPRC DATE: 7/10/12
ACCEPTED BY: Susan Puckett/CHPRC DATE: 7/12/12

Problem and Discrepancy Report

TASL

SDG SL1271

07/12/12

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1. **The data package has the following issues:**

   a) The method blank report on page 85, lists the result for Dimethyl phthalate over the reporting limit but is not discussed in the narrative.
   b) The date received is incorrect in the hard copy data package, pages 135 through 144, for the following samples; B2L6L5, B2L6L4, B2L6L6, B2L6L7, B2L6K8, B2L6K9, B2L6L0, B2L6L1, B2L6L2, and B2L6L3.
   c) The MDL is missing for 4-Methylphenol, Aramite 1 and Aramite 2, sample number B2KWK3, and B2KWK4he electronic data is missing for Chlordane 57-74-9 sample numbers B2C421 and B2CKX5.

Resolution: *Provide appropriate correction.*

Lab Response: Method Blank Statement has been entered for Dimethyl phthalate, receipt dates now reflect the COC information for the above-mentioned samples, MDL values are included for the above-mentioned analytes.

The Chlordane issue is not applicable.

Please correct the issues and resubmit the hard copy data package.

SAMPLE SUMMARY

SL1271 : F2E230450

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
MTQML	001	B2L672	05/21/12	11:16

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.

(Continued on next page)

SAMPLE SUMMARY

SL1271 : F2E230451

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
MTQMP	001	B2KWK4	05/21/12	11:16
MTQMQ	002	B2KWK3	05/21/12	11:16

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
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- 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

SL1271 : F2E230452

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
MTQMT	001	B2KFP0	05/17/12	10:23

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

SL1271 : F2E240419

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
MTQ52	001	B2L6K5	05/23/12	10:00
MTRC6	002	B2L6K6	05/23/12	10:00
MTRC7	003	B2L6K7	05/23/12	10:00
MTTDR	004	B2L6L5	05/23/12	10:00
MTTDW	005	B2L6L4	05/23/12	10:00
MTTD0	006	B2L6L6	05/23/12	10:00
MTTD3	007	B2L6L7	05/23/12	10:00
MTTD6	008	B2L6K8	05/23/12	10:00
MTTE5	009	B2L6K9	05/23/12	10:00
MTTFA	010	B2L6L0	05/23/12	10:00
MTTFD	011	B2L6L1	05/23/12	10:00
MTTFE	012	B2L6L2	05/23/12	10:00
MTTFG	013	B2L6L3	05/23/12	10:00

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.

67105

CH2MHill Plateau Remediation Company SL1271 CH 481	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # I12-021-518 Page 1 of 1

Collector	DON BROTHERTON / CHPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	376-4650
SAF No.	I12-021	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071ES20
Project Title	100KR4, APRIL 2012	Logbook No.	HNF-N-506 50 / 4	Ice Chest No.	GWS-289
Shipped To (Lab)	TestAmerica St. Louis	Method of Shipment	Commercial Carrier	Bill of Lading/Air Bill No.	7984 2980 0490
Protocol	CERCLA	Priority:	45 Days	Offsite Property No.	3785

POSSIBLE SAMPLE HAZARDS/REMARKS

** ** Contains Radioactive Material at concentations that are not regulated for transportation per 49 CRF but are not releasable per DOE Order 5400 5 (1990/1993)

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐

100 Area Generator Knowledge Information Form applies.
The CACN for all analytical work at WSCF is 401647.

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B2L6K5	N	W	5-23-12	1000	1x500-mL P	300.0_ANIONS_IC: List-1 (5)	48 Hours	Cool~4C
B2L6K5	N	W			1x500-mL G/P	6010_METALS_ICP: List-3 (18); 6020_METALS_ICPMS: DURA LIST (10)	6 Months	HNO3 to pH <2
B2L6K5	N	W			4x40-mL aGs*	8260_VOA_GCMS: List-2 (26)	14 Days	HCl or H2SO4 to pH <2/Cool~4C
B2L6K5	N	W			1x20-mL P	Activity Scan	6 Months	None
B2L6K5	N	W			1x1-L aGs*	9020_TOX: TOX (1)	28 Days	H2SO4 to pH <2/Cool~4C
B2L6K5	N	W			1x500-mL G/P	120.1_CONDUCT: Conductivity (1)	28 Days	Cool~4C
B2L6K5	N	W			1x250-mL G/P	9012_CYANIDE: Cyanide (1)	14 Days	NaOH to pH >=12/Cool~4C

JULY 24, 2012

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
	DON BROTHERTON / CHPRC		MAY 23 2012 1400	FEDEX			
Relinquished By			Date/Time	Received By			Date/Time
FEDEX				S. Wilson			5-24-12 0940
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

REV. 2

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

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A-6004-842 (REV 2)

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CH2MHill Plateau Remediation Company SL1271	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # I12-021-519 Page 1 of 1

Collector	DON BROTHERTON / CHPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	376-4650
SAF No.	I12-021	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071ES20
Project Title	100KR4, APRIL 2012	Logbook No.	HNF-N-506 50 / 4	Ice Chest No.	GWS-289
Shipped To (Lab)	TestAmerica St. Louis	Method of Shipment	Commercial Carrier	Bill of Lading/Air Bill No.	7984 2980 0490
Protocol	CERCLA	Priority:	45 Days	Offsite Property No.	3785

POSSIBLE SAMPLE HAZARDS/REMARKS

** ** Contains Radioactive Material at concentations that are not regulated for transportation per 49 CRF but are not releasable per DOE Order 5400 5 (1990/1993)

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐

100 Area Generator Knowledge Information Form applies.
The CACN for all analytical work at WSCF is 401647.

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B2L6K6	N	W	5-23-12	1000	1x500-mL P	300.0_ANIONS_IC: List-1 (5)	48 Hours	Cool~4C
B2L6K6	N	W			1x500-mL G/P	6010_METALS_ICP: List-3 (18); 6020_METALS_ICPMS: DURA LIST (10)	6 Months	HNO3 to pH <2
B2L6K6	N	W			4x40-mL aGs*	8260_VOA_GCMS: List-2 (26)	14 Days	HCl or H2SO4 to pH <2/Cool~4C
B2L6K6	N	W			1x20-mL P	Activity Scan	6 Months	None
B2L6K6	N	W			1x1-L aGs*	9020_TOX: TOX (1)	28 Days	H2SO4 to pH <2/Cool~4C
B2L6K6	N	W			1x500-mL G/P	120.1_CONDUCT: Conductivity (1)	28 Days	Cool~4C
B2L6K6	N	W			1x250-mL G/P	9012_CYANIDE: Cyanide (1)	14 Days	NaOH to pH >=12/Cool~4C

JULY 24, 2012

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
DON BROTHERTON / CHPRC			MAY 23 2012 1400	FEDEX			
FED EX				SWILSON			5.24.12 0940

Matrix *

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

REV. 2

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

CH2MHill Plateau Remediation Company SH1271	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # I12-021-520 Page 1 of 1

Collector	DON BROTHERTON / CHPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	376-4650
SAF No.	I12-021	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071ES20
Project Title	100KR4, APRIL 2012	Logbook No.	HNF-N-506 50 / 4	Ice Chest No.	GWS-289
Shipped To (Lab)	TestAmerica St. Louis	Method of Shipment	Commercial Carrier	Bill of Lading/Air Bill No.	7984 2980 0490
Protocol	CERCLA	Priority:	45 Days	Offsite Property No.	3785

POSSIBLE SAMPLE HAZARDS/REMARKS

** ** Contains Radioactive Material at concentations that are not regulated for transportation per 49 CRF but are not releasable per DOE Order 5400 5 (1990/1993)

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐

100 Area Generator Knowledge Information Form applies.
The CACN for all analytical work at WSCF is 401647.

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B2L6K7	N	W	5-23-12	1000	1x500-mL P	300.0_ANIONS_IC: List-1 (5)	48 Hours	Cool~4C
B2L6K7	N	W			1x500-mL G/P	6010_METALS_ICP: List-3 (18); 6020_METALS_ICPMS: DURA LIST (10)	6 Months	HNO3 to pH <2
B2L6K7	N	W			4x40-mL aGs*	8260_VOA_GCMS: List-2 (26)	14 Days	HCl or H2SO4 to pH <2/Cool~4C
B2L6K7	N	W			1x20-mL P	Activity Scan	6 Months	None
B2L6K7	N	W			1x1-L aGs*	9020_TOX: TOX (1)	28 Days	H2SO4 to pH <2/Cool~4C
B2L6K7	N	W			1x500-mL G/P	120.1_CONDUCT: Conductivity (1)	28 Days	Cool~4C
B2L6K7	N	W			1x250-mL G/P	9012_CYANIDE: Cyanide (1)	14 Days	NaOH to pH >=12/Cool~4C

JULY 24, 2012

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
DON BROTHERTON / CHPRC			MAY 23 2012 1400	FEDEX			
FED EX				SWilson			5.24.12 0940

Matrix *

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

REV. 2

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

CH2MHill Plateau Remediation Company SN271	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # I12-021-521 Page 1 of 1

Collector	DON BROTHERTON / CHPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	376-4650
SAF No.	I12-021	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071ES20
Project Title	100KR4, APRIL 2012	Logbook No.	HNF-N-506 50 / 4	Ice Chest No.	GWS-289
Shipped To (Lab)	TestAmerica St. Louis	Method of Shipment	Commercial Carrier	Bill of Lading/Air Bill No.	7984 2980 0490
Protocol	CERCLA	Priority:	45 Days	Offsite Property No.	3785

POSSIBLE SAMPLE HAZARDS/REMARKS

** ** Contains Radioactive Material at concentations that are not regulated for transportation per 49 CRF but are not releasable per DOE Order 5400 5 (1990/1993)

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐

100 Area Generator Knowledge Information Form applies.
The CACN for all analytical work at WSCF is 401647.

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B2L6L5	N	W	5-23-12	1000	1x1-L aGs*	9020_TOX: TOX (1)	28 Days	H2SO4 to pH <2/Cool~4C
B2L6L5	N	W			1x250-mL aG	9060_TOC: TOC (1)	28 Days	HCl or H2SO4 to pH <2/Cool~4C
B2L6L4	N	W			1x1-L aGs*	9020_TOX: TOX (1)	28 Days	H2SO4 to pH <2/Cool~4C
B2L6L4	N	W			1x250-mL aG	9060_TOC: TOC (1)	28 Days	HCl or H2SO4 to pH <2/Cool~4C
B2L6L6	N	W			1x1-L aGs*	9020_TOX: TOX (1)	28 Days	H2SO4 to pH <2/Cool~4C
B2L6L6	N	W			1x250-mL aG	9060_TOC: TOC (1)	28 Days	HCl or H2SO4 to pH <2/Cool~4C
B2L6L7	N	W			1x1-L aGs*	9020_TOX: TOX (1)	28 Days	H2SO4 to pH <2/Cool~4C
B2L6L7	N	W			1x250-mL aG	9060_TOC: TOC (1)	28 Days	HCl or H2SO4 to pH <2/Cool~4C
B2L6K8	N	W			1x500-mL P	300.0_ANIONS_IC: List-1 (5)	48 Hours	Cool~4C
B2L6K8	N	W			1x20-mL P	Activity Scan	6 Months	None

JULY 24, 2012

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
DON BROTHERTON / CHPRC			MAY 23 2012 1400	FEDEX			
Relinquished By			Date/Time	Received By			Date/Time
FED EX				SWilson			5-25-12 0920
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

REV. 2

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

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CH2MHill Plateau Remediation Company

SL1271

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # I12-021-522

Collector	DON BROTHERTON / CHPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	376-4650
SAF No.	I12-021	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071ES20
Project Title	100KR4, APRIL 2012	Logbook No.	HNF-N-506 50 / 4	Ice Chest No.	GWS-2012
Shipped To (Lab)	TestAmerica St. Louis	Method of Shipment	Commercial Carrier	Bill of Lading/Air Bill No.	7984 2980 0537
Protocol	CERCLA	Priority:	45 Days	Offsite Property No.	3785

POSSIBLE SAMPLE HAZARDS/REMARKS

** ** Contains Radioactive Material at concentations that are not regulated for transportation per 49 CRF but are not releasable per DOE Order 5400 5 (1990/1993)

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐

100 Area Generator Knowledge Information Form applies.
The CACN for all analytical work at WSCF is 401647.

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B2L6K9	N	W	5-23-12	1000	1x500-mL P	300.0_ANIONS_IC: List-1 (5)	48 Hours	Cool~4C
B2L6K9	N	W	5-23-12	1000	1x20-mL P	Activity Scan	6 Months	None

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
DON BROTHERTON / CHPRC			MAY 23 2012 1400	FEDEX			
FEDEX				S Wilson			5.25.12 0920

Matrix *

S	= Soil	DS	= Drum Solids
SE	= Sediment	DL	= Drum Liquids
SO	= Solid	T	= Tissue
SL	= Sludge	WI	= Wipe
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

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A-6004-842 (REV 2)

JULY 24, 2012

REV. 2

CH2MHill Plateau Remediation Company SH271	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # I12-021-523 Page 1 of 1

Collector	DON BROTHERTON / CHPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	376-4650
SAF No.	I12-021	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071ES20
Project Title	100KR4, APRIL 2012	Logbook No.	HNF-N-506 50 / 4	Ice Chest No.	GWS-2012
Shipped To (Lab)	TestAmerica St. Louis	Method of Shipment	Commercial Carrier	Bill of Lading/Air Bill No.	7984 2980 0537
Protocol	CERCLA	Priority:	45 Days	Offsite Property No.	3785

POSSIBLE SAMPLE HAZARDS/REMARKS

** ** Contains Radioactive Material at concentations that are not regulated for transportation per 49 CRF but are not releasable per DOE Order 5400 5 (1990/1993)

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐

100 Area Generator Knowledge Information Form applies.
The CACN for all analytical work at WSCF is 401647.

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B2L6L0	N	W	5-23-12	1000	1x500-mL P	300.0_ANIONS_IC: List-1 (5)	48 Hours	Cool~4C
B2L6L0	N	W	5-23-12	↓	1x20-mL P	Activity Scan	6 Months	None

JULY 24, 2012

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
DON BROTHERTON / CHPRC			MAY 23 2012 1400	FEDEX			
Relinquished By			Date/Time	Received By			Date/Time
FED EX				SWilson			5-25-12 0920
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

REV. 2

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

PRINTED ON 4/23/2012

A-6004-842 (REV 2)

CH2MHill Plateau Remediation Company SL1271	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # I12-021-524 Page 1 of 1

Collector	DON BROTHERTON / CHPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	376-4650
SAF No.	I12-021	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071ES20
Project Title	100KR4, APRIL 2012	Logbook No.	HNF-N-506 50 / 4	Ice Chest No.	GWS-2012
Shipped To (Lab)	TestAmerica St. Louis	Method of Shipment	Commercial Carrier	Bill of Lading/Air Bill No.	7984 2980 0537
Protocol	CERCLA	Priority:	45 Days	Offsite Property No.	3785

POSSIBLE SAMPLE HAZARDS/REMARKS

** ** Contains Radioactive Material at concentations that are not regulated for transportation per 49 CRF but are not releasable per DOE Order 5400 5 (1990/1993)

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐

100 Area Generator Knowledge Information Form applies.
The CACN for all analytical work at WSCF is 401647.

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B2L6L1	N	W	5-23-12	1000	1x500-mL P	300.0_ANIONS_IC: List-1 (5)	48 Hours	Cool~4C
B2L6L1	N	W	5-23-12	1000	1x20-mL P	Activity Scan	6 Months	None

JULY 24, 2012

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
DON BROTHERTON / CHPRC			MAY 23 2012 1400	FEDEX			
FED EX				S Wilson			5-25-12 0920

Matrix *

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

REV. 2

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

PRINTED ON 4/23/2012

A-6004-842 (REV 2)

CH2MHill Plateau Remediation Company SH27H	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # I12-021-525 Page 1 of 1

Collector	DON BROTHERTON / CHPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	376-4650
SAF No.	I12-021	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071ES20
Project Title	100KR4, APRIL 2012	Logbook No.	HNF-N-506 50 / 4	Ice Chest No.	GW S - 2012
Shipped To (Lab)	TestAmerica St. Louis	Method of Shipment	Commercial Carrier	Bill of Lading/Air Bill No.	7984 2980 0537
Protocol	CERCLA	Priority:	45 Days	Offsite Property No.	3785

POSSIBLE SAMPLE HAZARDS/REMARKS

** ** Contains Radioactive Material at concentations that are not regulated for transportation per 49 CRF but are not releasable per DOE Order 5400 5 (1990/1993)

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐

100 Area Generator Knowledge Information Form applies.
The CACN for all analytical work at WSCF is 401647.

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B2L6L2	N	W	5-23-12	1000	1x500-mL P	300.0_ANIONS_IC: List-1 (5)	48 Hours	Cool~4C
B2L6L2	N	W	5-23-12	1000	1x20-mL P	Activity Scan	6 Months	None

JULY 24, 2012

Relinquished By (Print / Sign)	Date/Time	Received By (Print / Sign)	Date/Time
DON BROTHERTON / CHPRC	MAY 23 2012 1400	FEDEX	
FED EX		SWilson	5-25-12 0000

Matrix *

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

REV. 2

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

CH2MHill Plateau Remediation Company SL127	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # I12-021-526 Page 1 of 1

Collector	DON BROTHERTON / CHPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	376-4650
SAF No.	I12-021	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071ES20
Project Title	100KR4, APRIL 2012	Logbook No.	HNF-N-506 50 / 4	Ice Chest No.	GWS-2012
Shipped To (Lab)	TestAmerica St. Louis	Method of Shipment	Commercial Carrier	Bill of Lading/Air Bill No.	7984 2980 0537
Protocol	CERCLA	Priority:	45 Days	Offsite Property No.	3785

POSSIBLE SAMPLE HAZARDS/REMARKS

** ** Contains Radioactive Material at concentations that are not regulated for transportation per 49 CRF but are not releasable per DOE Order 5400 5 (1990/1993)

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐

100 Area Generator Knowledge Information Form applies.
The CACN for all analytical work at WSCF is 401647.

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B2L6L3	N	W	5-23-12	1000	1x500-mL P	300.0_ANIONS_IC: List-1 (5)	48 Hours	Cool~4C
B2L6L3	N	W	5-23-12	1000	1x20-mL P	Activity Scan	6 Months	None

JULY 24, 2012

Relinquished By (Print / Sign)	Date/Time	Received By (Print / Sign)	Date/Time
DON BROTHERTON / CHPRC [signature]	MAY 23 2012 1400	FEDEX	
FED EX		SWilson [signature]	5-25-12 0920

Matrix *

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

REV. 2

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

JULY 24, 2012

REV. 2

Detailed Results

This shipment is part of a multiple-piece shipment

Master tracking no. 798429800490

Total pieces 2
Total shipment weight 134.0 lbs/60.8 kg

View all associated shipments

Tracking no.: 798429800490 (1 of 2) Select time format: 12H | 24H E-mail notifications

Delivered

Initiated → Picked up → In transit → Delivered

Delivered
Signed for by: B.DANIELS

Shipment Dates	Destination
Ship date May 23, 2012	EARTH CITY, MO
Delivery date May 24, 2012 9:35 AM	Signature Proof of Delivery

Shipment Options

Help

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

Shipment Facts

Help

Service type	Priority Overnight	Delivered to	Shipping/Receiving
Pieces	1 of 2	Reference	3EK00/ 300072/ ES10 PTR3785
Weight	67.0 lbs/30.4 kg		
Total Shipment Weight	134.0 lbs/60.8 kg		

Shipment Travel History

Help

Select time zone: Local Scan Time

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

Date/Time	Activity	Location	Details
May 24, 2012 9:35 AM	**Delivered**	EARTH CITY, MO	
May 24, 2012 8:50 AM	At local FedEx facility	EARTH CITY, MO	
May 24, 2012 5:27 AM	At destination sort facility	BERKELEY, MO	
May 24, 2012 4:35 AM	Departed FedEx location	MEMPHIS, TN	
May 24, 2012 12:24 AM	Arrived at FedEx location	MEMPHIS, TN	
May 23, 2012 5:09 PM	Left FedEx origin facility	PASCO, WA	
May 23, 2012 3:18 PM	Picked up	PASCO, WA	
May 23, 2012 2:44 PM	Shipment information sent to FedEx		

Won't be around for delivery?
Have us hold the shipment for convenient pickup.
Learn more ▸

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The ultimate in tracking visibility.
Watch demo ▸

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JULY 24, 2012

REV. 2

Detailed Results

Detailed Results | Notifications | Associated Shipments

This shipment is part of a multiple-piece shipment

Master tracking no. 798429800490

Total pieces 2
Total shipment weight 67.0 lbs/30.4 kg

View all associated shipments

Tracking no.: 798429800537 (2 of 2)

Select time format: 12H | 24H

E-mail notifications

Delivered

Initiated Picked up In transit Delivered

Delivered
Signed for by: S.WILSON

Shipment Dates	Destination
Ship date May 23, 2012	EARTH CITY, MO
Delivery date May 25, 2012 9:20 AM	Signature Proof of Delivery

Shipment Options

Help

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

Shipment Facts

Help

Service type	Priority Overnight	Delivered to	Shipping/Receiving
Pieces	2 of 2	Reference	3EK00/ 300072/ ES10 PTR3785
Weight	67.0 lbs/30.4 kg		
Total Shipment Weight	67.0 lbs/30.4 kg		

Shipment Travel History

Help

Select time zone: Local Scan Time

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

Date/Time	Activity	Location	Details
May 25, 2012 9:20 AM	**Delivered**	EARTH CITY, MO	
May 25, 2012 7:06 AM	On FedEx vehicle for delivery	EARTH CITY, MO	
May 25, 2012 6:58 AM	At local FedEx facility	EARTH CITY, MO	
May 25, 2012 5:26 AM	At destination sort facility	BERKELEY, MO	
May 25, 2012 4:39 AM	Departed FedEx location	MEMPHIS, TN	
May 24, 2012 12:24 AM	Arrived at FedEx location	MEMPHIS, TN	
May 23, 2012 5:09 PM	Left FedEx origin facility	PASCO, WA	
May 23, 2012 3:16 PM	Picked up	PASCO, WA	
May 23, 2012 2:44 PM	Shipment information sent to FedEx		

Won't be around for delivery?
Have us hold the shipment for convenient pickup.
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FedEx Advanced Tracking:
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Watch demo ▸

JULY 24, 2012 REV. 2

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Lot #(s): F2E 240419

CUR Form #: 4 0 1

CONDITION UPON RECEIPT FORM

Client: CHPRC

Quote No:

COC/RFA No: SN below

Initiated By: SN Date: 5.24.12 Time: 0940

Shipping Information

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

Shipping # (s):*

1. 7984 2980 0490 MRS
2. 2980 0537 E 5/25/12 Received. cyf 06-06-12
3.
4.
5.
6.
7.
8.
9.
10.

Sample Temperature (s):**

1. 4
2.
3.
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; Rad tests- Liquid or Solids; Perchlorate

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 N/A	Containers for C-14, H-3 & I-129/131 marked with "Do Not Preserve" label?
5.	Y N N/A	Does the Chain of Custody match sample ID's on the container(s)?	12.	Y N	Sample received in proper containers?
6.	Y N	Was sample received broken?	13.	Y N N/A	Headspace in VOA or TOX liquid samples? (If Yes, note sample ID's below)
7.	Y N	Is sample volume sufficient for analysis?	14.	Y N N/A	Was Internal COC/Workshare received?

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

Notes:

One cooler did not arrive - missing samples for I12-021-521.

I12-021-521 518 519 520

I12-021-522, 23, 24, 25, 26 - all anions out of hold time. SN 6.5.12

Smps received 5/25. cyf 6-6-12

Corrective Action:

☐ Client Contact Name: Informed by:

☐ Sample(s) processed "as is"

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

Project Management Review: CYF Date: 06-04-12

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.

CH2MHill Plateau Remediation Company SL1271 WS 36d

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **W12-003-244**

Collector	RJ Crow CHPRC	**Contact/Requester**	Karen Waters-Husted	**Telephone No.**	376-4650
SAF No.	W12-003	**Sampling Origin**	Hanford Site	**Purchase Order/Charge Code**	300071ES20
Project Title	RCRA, MARCH 2012	**Logbook No.**	HNF-N-506 44182	**Ice Chest No.**	GWS-199
Shipped To (Lab)	TestAmerica St. Louis	**Method of Shipment**	Commercial Carrier	**Bill of Lading/Air Bill No.**	7189 2304 1180
Protocol	RCRA	**Priority:**	**45 Days**	**Offsite Property No.**	3779

POSSIBLE SAMPLE HAZARDS/REMARKS

** ** Contains Radioactive Material at concentations that are not regulated for transportation per 49 CRF but are not releasable per DOE Order 5400 5 (1990/1993)

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐

Site Wide Generator Knowledge Information Form applies.
The CACN for all analytical work at WSCF is 401647.

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B2KFP0	N	W	5-17-12	1023	1x20-mL P	Activity Scan	6 Months	None
B2KFP0	N	W	5-17-12	1023	2x1-L aG	8310_SVOA_HPLC	14/40 Days	Cool~4C

JULY 24, 2012

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
RJ Crow CHPRC	R Crow		5-17-12 1513	SSU-1			5-17-12 1513
Relinquished By			Date/Time	Received By			Date/Time
SSU-1			MAY 22 2012 0700	KC Patterson CHPRC			MAY 22 2012 0700
Relinquished By			Date/Time	Received By			Date/Time
KC Patterson CHPRC			MAY 22 2012 1200	FEDEX			
Relinquished By			Date/Time	Received By			Date/Time
FEDEX				S. Wilson			5.23.12 0920

Matrix *

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

REV. 2

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

227

JULY 24, 2012

REV. 2

Detailed Results

Detailed Results | Notifications | Associated Shipments

This shipment is part of a multiple-piece shipment

Master tracking no. 798423041180

Total pieces 2
Total shipment weight 134.0 lbs/60.8 kg

View all associated shipments

Tracking no.: 798423041180 (1 of 2) Select time format: 12H | 24H E-mail notifications

Delivered

Initiated Picked up In transit Delivered

Delivered
Signed for by: B.DANIELS

Shipment Dates	Destination
Ship date May 22, 2012	EARTH CITY, MO
Delivery date May 23, 2012 9:20 AM	Signature Proof of Delivery

Shipment Options

Help

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

Shipment Facts

Help

Service type	Priority Overnight	Delivered to	Shipping/Receiving
Pieces	1 of 2	Reference	2EK00/ 300072/ ES10
Weight	66.0 lbs/29.9 kg		
Total Shipment Weight	134.0 lbs/60.8 kg		

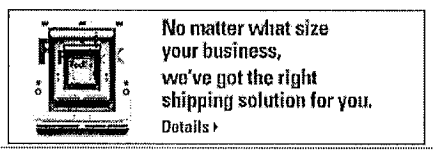
Shipment Travel History

Help

Select time zone: Local Scan Time

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

Date/Time	Activity	Location	Details
May 23, 2012 9:20 AM	**Delivered**	EARTH CITY, MO	
May 23, 2012 8:53 AM	On FedEx vehicle for delivery	EARTH CITY, MO	
May 23, 2012 8:45 AM	At local FedEx facility	EARTH CITY, MO	
May 23, 2012 5:17 AM	At destination sort facility	BERKELEY, MO	
May 23, 2012 4:30 AM	Departed FedEx location	MEMPHIS, TN	
May 23, 2012 12:32 AM	Arrived at FedEx location	MEMPHIS, TN	
May 22, 2012 5:09 PM	Left FedEx origin facility	PASCO, WA	
May 22, 2012 2:57 PM	Picked up	PASCO, WA	
May 22, 2012 11:12 AM	Shipment information sent to FedEx		



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JULY 24, 2012 REV. 2

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

CUR Form #: 3 6 8

Lot #(s): FZE 230450, 457, 452

CONDITION UPON RECEIPT FORM

Client: CHPRC

Quote No: 90229

COC/RFA No: 84 / Delta

Initiated By: Date: 5.23.12 Time: 09.20

Shipping Information

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

Shipping # (s):*		Sample Temperature (s):**	
1. 7984 2304 1180	6.	1. 3	6.
2.	7.	2. 4	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; Rad tests- Liquid or Solids; Perchlorate

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 N/A	Containers for C-14, H-3 & I-129/131 marked with "Do Not Preserve" label?
5.	Y N N/A	Does the Chain of Custody match sample ID's on the container(s)?	12.	Y N	Sample received in proper containers?
6.	Y N	Was sample received broken?	13.	Y N N/A	Headspace in VOA or TOX liquid samples? (If Yes, note sample ID's below)
7.	Y N	Is sample volume sufficient for analysis?	14.	Y N N/A	Was Internal COC/Workshare received?

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

Notes: W12-003-244
I12-025-007
006
I12-021-428

Corrective Action:

☐ Client Contact Name: Informed by:

☐ Sample(s) processed "as is"

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

Project Management Review: CMB Date: 05-24-12

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.

CH2MHill Plateau Remediation Company

5L1271

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # I12-025-007

Collector	FM Hall CHPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	376-4650
SAF No.	I12-025	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071ES20
Project Title	100NR2, JUNE 2012	Logbook No.	HNF-N-506 49 /12	Ice Chest No.	GWS-199
Shipped To (Lab)	TestAmerica St. Louis	Method of Shipment	Commercial Carrier	Bill of Lading/Air Bill No.	7984 2304 1180
Protocol	CERCLA	Priority:	45 Days	Offsite Property No.	3779

POSSIBLE SAMPLE HAZARDS/REMARKS

** ** Contains Radioactive Material at concentations that are not regulated for transportation per 49 CRF but are not releasable per DOE Order 5400 5 (1990/1993)

SPECIAL INSTRUCTIONS **Hold Time**

100 Area Generator Knowledge Information Form applies.
The CACN for all analytical work at WSCF is 401647.
FY11 and FY12 samples cannot be in the same SDG.

Total Activity Exemption: Yes ☑ No ☐

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B2KWK4	N	W	5/21/12	1116	2x1-L aG	8081_PEST_GC: List-1 (19)	14/40 Days	Cool~4C
B2KWK4	N	W	↓	↓	4x40-mL aGs*	8260_VOA_GCMS: List-2 (55)	14 Days	HCl or H2SO4 to pH <2/Cool~4C
B2KWK4	N	W	↓	↓	3x1-L aG	8270_SVOA_GCMS_IX: List-1 (123)	7/40 Days	Cool~4C
B2KWK4	N	W	↓	↓	2x1-L aG	8310_SVOA_HPLC	14/40 Days	Cool~4C
B2KWK4	N	W	↓	↓	1x20-mL P	Activity Scan	6 Months	None

JULY 24, 2012

Relinquished By (Print / Sign)	Date/Time	Received By (Print / Sign)	Date/Time
FM Hall CHPRC	MAY 2 1 2012 1605	SSU#1	MAY 2 1 2012 1605
SSU-1	MAY 2 2 2012 1600	KC Patterson CHPRC	MAY 2 2 2012 1600
KC Patterson CHPRC	MAY 2 2 2012 1200	FEDEX	
FED EX		SWilson	5-23-12 0920

Matrix *

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

REV. 2

FINAL SAMPLE DISPOSITION

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

PRINTED ON 4/19/2012

A-6004-842 (REV 2)

CH2MHill Plateau Remediation Company SL1271	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # I12-025-006 Page 1 of 1

Collector	FM Hall CHPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	376-4650
SAF No.	I12-025	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071ES20
Project Title	100NR2, JUNE 2012	Logbook No.	HNF-N-506 49 / 12	Ice Chest No.	GWSC-050 (68)
Shipped To (Lab)	TestAmerica St. Louis	Method of Shipment	Commercial Carrier	Bill of Lading/Air Bill No.	7984 2304 1206
Protocol	CERCLA	Priority:	45 Days	Offsite Property No.	3779

POSSIBLE SAMPLE HAZARDS/REMARKS

** ** Contains Radioactive Material at concentations that are not regulated for transportation per 49 CRF but are not releasable per DOE Order 5400 5 (1990/1993)

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐

100 Area Generator Knowledge Information Form applies.
The CACN for all analytical work at WSCF is 401647.
FY11 and FY12 samples cannot be in the same SDG.

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B2KWK3	N	W	5/21/12	1116	2x1-L aG	8081_PEST_GC: List-1 (19)	14/40 Days	Cool~4C
B2KWK3	N	W	↓	↓	4x40-mL aGs*	8260_VOA_GCMS: List-2 (55)	14 Days	HCl or H2SO4 to pH <2/Cool~4C
B2KWK3	N	W	↓	↓	3x1-L aG	8270_SVOA_GCMS_IX: List-1 (123)	7/40 Days	Cool~4C
B2KWK3	N	W	↓	↓	2x1-L aG	8310_SVOA_HPLC	14/40 Days	Cool~4C
B2KWK3	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			MAY 2 1 2012 1605	SSU #1			MAY 2 1 2012 1605
SSU-1			MAY 2 2 2012 0700	KC Patterson CHPRC			MAY 2 2 2012 0700
KC Patterson CHPRC			MAY 2 2 2012 1200	FEDEX			

Matrix *

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

Relinquished By	Date/Time	Received By	Date/Time
		SWilson	5-23-12 0920

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

PRINTED ON 4/19/2012

A-6004-842 (REV 2)

JULY 24, 2012

REV. 2

JULY 24, 2012

REV. 2

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Detailed Results

Printer-Friendly Get Link Help

Enter tracking number Track

Detailed Results | Notifications | Associated Shipments

This shipment is part of a multiple-piece shipment

Master tracking no. 798423041180

Total pieces 2
Total shipment weight 134.0 lbs/60.8 kg

View all associated shipments

Tracking no.: 798423041180 (1 of 2) Select time format: 12H | 24H E-mail notifications

Delivered

Initiated Picked up In transit Delivered

Delivered
Signed for by: B.DANIELS

Shipment Dates	Destination
Ship date May 22, 2012	EARTH CITY, MO
Delivery date May 23, 2012 9:20 AM	Signature Proof of Delivery

Shipment Options

Help

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

Shipment Facts

Help

Service type	Priority Overnight	Delivered to	Shipping/Receiving
Pieces	1 of 2	Reference	2EK00/ 300072/ ES10
Weight	66.0 lbs/29.9 kg		
Total Shipment Weight	134.0 lbs/60.8 kg		

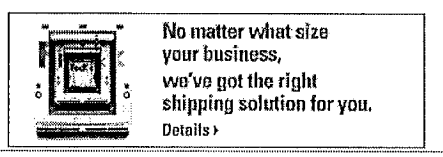
Shipment Travel History

Help

Select time zone: Local Scan Time

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

Date/Time	Activity	Location	Details
May 23, 2012 9:20 AM	**Delivered**	EARTH CITY, MO	
May 23, 2012 6:53 AM	On FedEx vehicle for delivery	EARTH CITY, MO	
May 23, 2012 6:45 AM	At local FedEx facility	EARTH CITY, MO	
May 23, 2012 5:17 AM	At destination sort facility	BERKELEY, MO	
May 23, 2012 4:30 AM	Departed FedEx location	MEMPHIS, TN	
May 23, 2012 12:32 AM	Arrived at FedEx location	MEMPHIS, TN	
May 22, 2012 5:09 PM	Left FedEx origin facility	PASCO, WA	
May 22, 2012 2:57 PM	Picked up	PASCO, WA	
May 22, 2012 11:12 AM	Shipment information sent to FedEx		



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JULY 24, 2012

REV. 2

Detailed Results

Detailed Results | Notifications | Associated Shipments

This shipment is part of a multiple-piece shipment

Master tracking no. 798423041180

Total pieces 2
Total shipment weight 68.0 lbs/30.8 kg

View all associated shipments

Tracking no.: 798423041206 (2 of 2) Select time format: 12H | 24H E-mail notifications

Delivered

Initiated Picked up In transit Delivered

Delivered
Signed for by: B.DANIELS

Shipment Dates	Destination
Ship date May 22, 2012	EARTH CITY, MO
Delivery date May 23, 2012 9:20 AM	Signature Proof of Delivery

Shipment Options

Help

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

Shipment Facts

Help

Service type	Priority Overnight	Delivered to	Shipping/Receiving
Pieces	2 of 2	Reference	2EK00/ 300072/ ES10
Weight	68.0 lbs/30.8 kg		
Total Shipment Weight	68.0 lbs/30.8 kg		

Shipment Travel History

Help

Select time zone: Local Scan Time

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

Date/Time	Activity	Location	Details
May 23, 2012 9:20 AM	**Delivered**	EARTH CITY, MO	
May 23, 2012 7:01 AM	On FedEx vehicle for delivery	EARTH CITY, MO	
May 23, 2012 6:54 AM	At local FedEx facility	EARTH CITY, MO	
May 23, 2012 5:17 AM	At destination sort facility	BERKELEY, MO	
May 23, 2012 4:30 AM	Departed FedEx location	MEMPHIS, TN	
May 23, 2012 12:32 AM	Arrived at FedEx location	MEMPHIS, TN	
May 22, 2012 5:09 PM	Left FedEx origin facility	PASCO, WA	
May 22, 2012 2:57 PM	Picked up	PASCO, WA	
May 22, 2012 11:12 AM	Shipment information sent to FedEx		

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JULY 24, 2012 REV. 2

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CUR Form #: 3 6 8

Lot #(s): FZE 230450
451
452

CONDITION UPON RECEIPT FORM

Client: CHPRC

Quote No: 90229

COC/RFA No: 8N/ Below

Initiated By: Date: 5.23.12 Time: 09.20

Shipping Information

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

Shipping # (s):*

1. 7984 2304 1180
2.
3.
4.
5.
6.
7.
8.
9.
10.

Sample Temperature (s):**

1. 3
2. 4
3.
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; Rad tests- Liquid or Solids; Perchlorate

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 N/A	Containers for C-14, H-3 & I-129/131 marked with "Do Not Preserve" label?
5.	Y N N/A	Does the Chain of Custody match sample ID's on the container(s)?	12.	Y N	Sample received in proper containers?
6.	Y N	Was sample received broken?	13.	Y N N/A	Headspace in VOA or TOX liquid samples? (If Yes, note sample ID's below)
7.	Y N	Is sample volume sufficient for analysis?	14.	Y N N/A	Was Internal COC/Workshare received?

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

Notes: W12-003-244
I12-025-007
006
I12-021-428

Corrective Action:

☐ Client Contact Name: Informed by:

☐ Sample(s) processed "as is"

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

Project Management Review: Date: 5-24-12

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.

CH2MHill Plateau Remediation Company SL1271	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # I12-021-428 Page 1 of 1

Collector	FM Hall CHPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	376-4650
SAF No.	I12-021	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071ES20
Project Title	100KR4, APRIL 2012	Logbook No.	HNF-N-506 49 /12	Ice Chest No.	GWSC-050
Shipped To (Lab)	TestAmerica St. Louis	Method of Shipment	Commercial Carrier	Bill of Lading/Air Bill No.	7984 2304 1206
Protocol	CERCLA	Priority:	45 Days	Offsite Property No.	3779

POSSIBLE SAMPLE HAZARDS/REMARKS

** ** Contains Radioactive Material at concentations that are not regulated for transportation per 49 CRF but are not releasable per DOE Order 5400 5 (1990/1993)

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐

100 Area Generator Knowledge Information Form applies.
The CACN for all analytical work at WSCF is 401647.

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B2L672	N	W	5/21/12	1116	4x40-mL aGs*	8260_VOA_GCMS: List-2 (26)	14 Days	HCl or H2SO4 to pH <2/Cool~4C
B2L672	N	W	↓	↓	1x20-mL P	Activity Scan	6 Months	None

JULY 24, 2012

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
FM Hall CHPRC			MAY 2 1 2012 1605	SSU #1			MAY 2 1 2012 1605
SSU-1			MAY 2 2 2012 0700	KC Patterson CHPRC			MAY 2 2 2012 0700
KC Patterson CHPRC			MAY 2 2 2012 1200	FEDEX			
FEDEX				SWilson			5-23-12 0920

Matrix *

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

REV. 2

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

PRINTED ON 4/16/2012

A-6004-842 (REV 2)

229

JULY 24, 2012

REV. 2

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Ship › Track › Manage My Account › Customs Tools ›

Detailed Results

Printer-Friendly Get Link Help

Enter tracking number Track

Detailed Results | Notifications | Associated Shipments

This shipment is part of a multiple-piece shipment

Master tracking no. 798423041180

Total pieces 2
Total shipment weight 68.0 lbs/30.8 kg

View all associated shipments

Tracking no.: 798423041206 (2 of 2) Select time format: 12H | 24H E-mail notifications

Delivered

Initiated Picked up In transit Delivered

Delivered
Signed for by: B.DANIELS

Shipment Dates	Destination
Ship date May 22, 2012	EARTH CITY, MO
Delivery date May 23, 2012 9:20 AM	Signature Proof of Delivery

Shipment Options

Help

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

Shipment Facts

Help

Service type	Priority Overnight	Delivered to	Shipping/Receiving
Pieces	2 of 2	Reference	2EK00/ 300072/ ES10
Weight	68.0 lbs/30.8 kg		
Total Shipment Weight	68.0 lbs/30.8 kg		

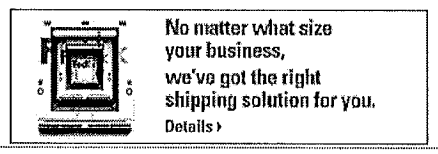
Shipment Travel History

Help

Select time zone: Local Scan Time

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

Date/Time	Activity	Location	Details
May 23, 2012 9:20 AM	Delivered	EARTH CITY, MO	
May 23, 2012 7:01 AM	On FedEx vehicle for delivery	EARTH CITY, MO	
May 23, 2012 6:54 AM	At local FedEx facility	EARTH CITY, MO	
May 23, 2012 5:17 AM	At destination sort facility	BERKELEY, MO	
May 23, 2012 4:30 AM	Departed FedEx location	MEMPHIS, TN	
May 23, 2012 12:32 AM	Arrived at FedEx location	MEMPHIS, TN	
May 22, 2012 5:09 PM	Left FedEx origin facility	PASCO, WA	
May 22, 2012 2:57 PM	Picked up	PASCO, WA	
May 22, 2012 11:12 AM	Shipment information sent to FedEx		



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JULY 24, 2012 REV. 2

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CUR Form #: 3 6 8

Lot #(s): FZE 230450
457
452

CONDITION UPON RECEIPT FORM

Client: CHPRC

Quote No: 90029

COC/RFA No: 8N / Delta

Initiated By: Date: 5.23.12 Time: 09.20

Shipping Information

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

Shipping # (s):*

1. 7984 2304 1180
2.
3.
4.
5.
6.
7.
8.
9.
10.

Sample Temperature (s):**

1. 3
2. 4
3.
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; Rad tests- Liquid or Solids; Perchlorate

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 N/A	Containers for C-14, H-3 & I-129/131 marked with "Do Not Preserve" label?
5.	Y N N/A	Does the Chain of Custody match sample ID's on the container(s)?	12.	Y N	Sample received in proper containers?
6.	Y N	Was sample received broken?	13.	Y N N/A	Headspace in VOA or TOX liquid samples? (If Yes, note sample ID's below)
7.	Y N	Is sample volume sufficient for analysis?	14.	Y N N/A	Was Internal COC/Workshare received?

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

Notes: W12-003-244
I12-025-007
006
I12-021-428

Corrective Action:

☐ Client Contact Name: Informed by:

☐ Sample(s) processed "as is"

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

Project Management Review: CJS Date: 05-24-12

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.

GC/MS VOLATILES

CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2L672

GC/MS Volatiles

Lot-Sample #...: F2E230450-001 **Work Order #...:** MTQML1AC **Matrix.....:** WATER
Date Sampled...: 05/21/12 **Date Received..:** 05/23/12
Prep Date.....: 05/29/12 **Analysis Date..:** 05/29/12
Prep Batch #...: 2150099
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloroethene	ND	1.0	ug/L	0.083
1,4-Dioxane	ND	80	ug/L	7.6
Ethylbenzene	ND	1.0	ug/L	0.086
Vinyl chloride	ND	2.0	ug/L	0.084
Acetone	**4.6**	**2.0**	**ug/L**	**0.34**
Methylene chloride	**1.2**	**1.0**	**ug/L**	**0.27**
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 T	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	102	(85 - 120)
Dibromofluoromethane	100	(85 - 118)
1,2-Dichloroethane-d4	95	(80 - 119)
4-Bromofluorobenzene	105	(84 - 115)

NOTE(S):

T Spike sample recovery is outside control limits.

CH2M Hill Plateau Remediation DOE RL

B2L672

GC/MS Volatiles

Lot-Sample #: F2E230450-001 **Work Order #:** MTQML1AC **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: B2KWK4

GC/MS Volatiles

Lot-Sample #...: F2E230451-001 **Work Order #...:** MTQMP1AF **Matrix.....:** WATER
Date Sampled...: 05/21/12 **Date Received..:** 05/23/12
Prep Date.....: 05/29/12 **Analysis Date..:** 05/29/12
Prep Batch #...: 2150099
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	ND	2.0	ug/L	0.25
Chlorobenzene	ND	1.0	ug/L	0.15
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	ND	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
Chloroprene	ND	1.0	ug/L	0.097
Vinyl chloride	ND	2.0	ug/L	0.084

(Continued on next page)

CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2KWK4

GC/MS Volatiles

Lot-Sample #...: F2E230451-001 **Work Order #...:** MTQMP1AF **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**1.3 J**	**2.0**	**ug/L**	**0.34**
Methylene chloride	**0.34 J**	**1.0**	**ug/L**	**0.27**
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	**0.96 J**	**1.0**	**ug/L**	**0.10**
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.087
Propionitrile	ND T	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	105	(85 - 120)
Dibromofluoromethane	106	(85 - 118)
1,2-Dichloroethane-d4	100	(80 - 119)
4-Bromofluorobenzene	105	(84 - 115)

NOTE(S):

J Estimated result. Result is less than RL.

T Spike sample recovery is outside control limits.

CH2M Hill Plateau Remediation DOE RL

B2KWK4

GC/MS Volatiles

Lot-Sample #: F2E230451-001 **Work Order #:** MTQMP1AF **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: B2KWK3

GC/MS Volatiles

Lot-Sample #...: F2E230451-002 **Work Order #...:** MTQMQ1AF **Matrix.....:** WATER
Date Sampled...: 05/21/12 **Date Received..:** 05/23/12
Prep Date.....: 05/29/12 **Analysis Date..:** 05/29/12
Prep Batch #...: 2150099
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	ND	2.0	ug/L	0.25
Chlorobenzene	ND	1.0	ug/L	0.15
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	**0.082 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	ND	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
Chloroprene	ND	1.0	ug/L	0.097
Vinyl chloride	ND	2.0	ug/L	0.084

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CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2KWK3

GC/MS Volatiles

Lot-Sample #...: F2E230451-002 **Work Order #...:** MTQMQ1AF **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	2.0	ug/L	0.34
Methylene chloride	ND	1.0	ug/L	0.27
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	**0.94 J**	**1.0**	**ug/L**	**0.10**
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.087
Propionitrile	ND T	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	104	(85 - 120)
Dibromofluoromethane	104	(85 - 118)
1,2-Dichloroethane-d4	98	(80 - 119)
4-Bromofluorobenzene	107	(84 - 115)

NOTE(S):

J Estimated result. Result is less than RL.

T Spike sample recovery is outside control limits.

CH2M Hill Plateau Remediation DOE RL

B2KWK3

GC/MS Volatiles

Lot-Sample #: F2E230451-002 **Work Order #:** MTQMQ1AF **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: B2L6K5

GC/MS Volatiles

Lot-Sample #...: F2E240419-001 **Work Order #...:** MTQ521CG **Matrix.....:** WATER
Date Sampled...: 05/23/12 **Date Received..:** 05/24/12
Prep Date.....: 05/29/12 **Analysis Date..:** 05/29/12
Prep Batch #...: 2150099
Dilution Factor: 5 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloroethene	ND	5.0	ug/L	0.42
1,4-Dioxane	ND	400	ug/L	38
Ethylbenzene	ND	5.0	ug/L	0.43
Vinyl chloride	ND	10	ug/L	0.42
Acetone	**3.9 J,D**	**10**	**ug/L**	**1.7**
Methylene chloride	**1.9 J,D**	**5.0**	**ug/L**	**1.4**
Carbon disulfide	ND	5.0	ug/L	0.26
1,1-Dichloroethane	ND	5.0	ug/L	0.34
2-Butanone	ND	25	ug/L	2.6
Chloroform	**210 D**	**5.0**	**ug/L**	**0.51**
cis-1,2-Dichloroethene	ND	5.0	ug/L	0.44
Propionitrile	ND T	25	ug/L	6.8
trans-1,2-Dichloroethene	ND	5.0	ug/L	0.42
1,1,1-Trichloroethane	ND	5.0	ug/L	0.34
1,2-Dichloroethane	ND	5.0	ug/L	0.50
Benzene	ND	5.0	ug/L	0.32
Trichloroethene	**210 D**	**5.0**	**ug/L**	**1.2**
4-Methyl-2-pentanone	ND	25	ug/L	0.60
1,1,2-Trichloroethane	ND	5.0	ug/L	0.75
Tetrachloroethene	**4.8 J,D**	**5.0**	**ug/L**	**0.89**
Tetrahydrofuran	ND	50	ug/L	5.7
Xylenes (total)	ND	15	ug/L	1.0
1,4-Dichlorobenzene	ND	5.0	ug/L	0.58
1-Butanol	ND	200	ug/L	62
Toluene	ND	5.0	ug/L	0.36

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	102	(85 - 120)
Dibromofluoromethane	110	(85 - 118)
1,2-Dichloroethane-d4	96	(80 - 119)
4-Bromofluorobenzene	104	(84 - 115)

NOTE(S):

J Estimated result. Result is less than RL.

D Result was obtained from the analysis of a dilution.

T Spike sample recovery is outside control limits.

CH2M Hill Plateau Remediation DOE RL

B2L6K5

GC/MS Volatiles

Lot-Sample #: F2E240419-001 **Work Order #:** MTQ521CG **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: B2L6K5

GC/MS Volatiles

Lot-Sample #...: F2E240419-001 **Work Order #...:** MTQ522CG **Matrix.....:** WATER
Date Sampled...: 05/23/12 **Date Received..:** 05/24/12
Prep Date.....: 05/29/12 **Analysis Date..:** 05/29/12
Prep Batch #...: 2150099
Dilution Factor: 25 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Carbon tetrachloride	**450 D**	**25**	**ug/L**	**3.1**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	106	(85 - 120)
Dibromofluoromethane	108	(85 - 118)
1,2-Dichloroethane-d4	100	(80 - 119)
4-Bromofluorobenzene	106	(84 - 115)

NOTE(S):

D Result was obtained from the analysis of a dilution.

CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2L6K6

GC/MS Volatiles

Lot-Sample #...: F2E240419-002 **Work Order #...:** MTRC61CG **Matrix.....:** WATER
Date Sampled...: 05/23/12 **Date Received..:** 05/24/12
Prep Date.....: 05/29/12 **Analysis Date..:** 05/29/12
Prep Batch #...: 2150099
Dilution Factor: 5 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloroethene	ND	5.0	ug/L	0.42
1,4-Dioxane	ND	400	ug/L	38
Ethylbenzene	ND	5.0	ug/L	0.43
Vinyl chloride	ND	10	ug/L	0.42
Acetone	ND	10	ug/L	1.7
Methylene chloride	**1.7 J,D**	**5.0**	**ug/L**	**1.4**
Carbon disulfide	ND	5.0	ug/L	0.26
1,1-Dichloroethane	ND	5.0	ug/L	0.34
2-Butanone	ND	25	ug/L	2.6
Chloroform	**200 D**	**5.0**	**ug/L**	**0.51**
cis-1,2-Dichloroethene	ND	5.0	ug/L	0.44
Propionitrile	ND T	25	ug/L	6.8
trans-1,2-Dichloroethene	ND	5.0	ug/L	0.42
1,1,1-Trichloroethane	ND	5.0	ug/L	0.34
1,2-Dichloroethane	ND	5.0	ug/L	0.50
Benzene	ND	5.0	ug/L	0.32
Trichloroethene	**200 D**	**5.0**	**ug/L**	**1.2**
4-Methyl-2-pentanone	ND	25	ug/L	0.60
1,1,2-Trichloroethane	ND	5.0	ug/L	0.75
Tetrachloroethene	**4.6 J,D**	**5.0**	**ug/L**	**0.89**
Tetrahydrofuran	ND	50	ug/L	5.7
Xylenes (total)	ND	15	ug/L	1.0
1,4-Dichlorobenzene	ND	5.0	ug/L	0.58
1-Butanol	ND	200	ug/L	62
Toluene	ND	5.0	ug/L	0.36

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	107	(85 - 120)
Dibromofluoromethane	105	(85 - 118)
1,2-Dichloroethane-d4	92	(80 - 119)
4-Bromofluorobenzene	105	(84 - 115)

NOTE(S):

J Estimated result. Result is less than RL.

D Result was obtained from the analysis of a dilution.

T Spike sample recovery is outside control limits.

CH2M Hill Plateau Remediation DOE RL

B2L6K6

GC/MS Volatiles

Lot-Sample #: F2E240419-002 **Work Order #:** MTRC61CG **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: B2L6K6

GC/MS Volatiles

Lot-Sample #...: F2E240419-002 **Work Order #...:** MTRC62CG **Matrix.....:** WATER
Date Sampled...: 05/23/12 **Date Received..:** 05/24/12
Prep Date.....: 05/29/12 **Analysis Date..:** 05/29/12
Prep Batch #...: 2150099
Dilution Factor: 25 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Carbon tetrachloride	**420 D**	**25**	**ug/L**	**3.1**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	104	(85 - 120)
Dibromofluoromethane	104	(85 - 118)
1,2-Dichloroethane-d4	99	(80 - 119)
4-Bromofluorobenzene	105	(84 - 115)

NOTE(S):

D Result was obtained from the analysis of a dilution.

CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2L6K7

GC/MS Volatiles

Lot-Sample #...: F2E240419-003 **Work Order #...:** MTRC71CG **Matrix.....:** WATER
Date Sampled...: 05/23/12 **Date Received..:** 05/24/12
Prep Date.....: 05/29/12 **Analysis Date..:** 05/29/12
Prep Batch #...: 2150099
Dilution Factor: 5 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloroethene	ND	5.0	ug/L	0.42
1,4-Dioxane	ND	400	ug/L	38
Ethylbenzene	ND	5.0	ug/L	0.43
Vinyl chloride	ND	10	ug/L	0.42
Acetone	**4.2 J,D**	**10**	**ug/L**	**1.7**
Methylene chloride	**1.7 J,D**	**5.0**	**ug/L**	**1.4**
Carbon disulfide	ND	5.0	ug/L	0.26
1,1-Dichloroethane	ND	5.0	ug/L	0.34
2-Butanone	ND	25	ug/L	2.6
Chloroform	**210 D**	**5.0**	**ug/L**	**0.51**
cis-1,2-Dichloroethene	ND	5.0	ug/L	0.44
Propionitrile	ND T	25	ug/L	6.8
trans-1,2-Dichloroethene	ND	5.0	ug/L	0.42
1,1,1-Trichloroethane	ND	5.0	ug/L	0.34
1,2-Dichloroethane	ND	5.0	ug/L	0.50
Benzene	ND	5.0	ug/L	0.32
Trichloroethene	**200 D**	**5.0**	**ug/L**	**1.2**
4-Methyl-2-pentanone	ND	25	ug/L	0.60
1,1,2-Trichloroethane	ND	5.0	ug/L	0.75
Tetrachloroethene	**4.8 J,D**	**5.0**	**ug/L**	**0.89**
Tetrahydrofuran	ND	50	ug/L	5.7
Xylenes (total)	ND	15	ug/L	1.0
1,4-Dichlorobenzene	ND	5.0	ug/L	0.58
1-Butanol	ND	200	ug/L	62
Toluene	ND	5.0	ug/L	0.36

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	106	(85 - 120)
Dibromofluoromethane	109	(85 - 118)
1,2-Dichloroethane-d4	96	(80 - 119)
4-Bromofluorobenzene	108	(84 - 115)

NOTE(S):

J Estimated result. Result is less than RL.

D Result was obtained from the analysis of a dilution.

T Spike sample recovery is outside control limits.

CH2M Hill Plateau Remediation DOE RL

B2L6K7

GC/MS Volatiles

Lot-Sample #: F2E240419-003 **Work Order #:** MTRC71CG **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: B2L6K7

GC/MS Volatiles

Lot-Sample #...: F2E240419-003 **Work Order #...:** MTRC72CG **Matrix.....:** WATER
Date Sampled...: 05/23/12 **Date Received..:** 05/24/12
Prep Date.....: 05/29/12 **Analysis Date..:** 05/29/12
Prep Batch #...: 2150099
Dilution Factor: 25 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Carbon tetrachloride	**420 D**	**25**	**ug/L**	**3.1**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	105	(85 - 120)
Dibromofluoromethane	108	(85 - 118)
1,2-Dichloroethane-d4	97	(80 - 119)
4-Bromofluorobenzene	102	(84 - 115)

NOTE(S):

D Result was obtained from the analysis of a dilution.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: SL1271 **Work Order #...:** MTT2A1AA **Matrix.....:** WATER
MB Lot-Sample #: F2E290000-099

Prep Date.....: 05/29/12
Analysis Date..: 05/29/12 **Prep Batch #...:** 2150099
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
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
Dibromochloromethane	ND	1.0	ug/L	SW846 8260B
Chloroethane	ND	2.0	ug/L	SW846 8260B
Chloromethane	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
2-Hexanone	ND	5.0	ug/L	SW846 8260B
Styrene	ND	1.0	ug/L	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
Acetonitrile	ND	5.0	ug/L	SW846 8260B
Acrolein	ND	10	ug/L	SW846 8260B
Chloroprene	ND	1.0	ug/L	SW846 8260B
1,2-Dibromo-3-chloro-propane	ND	1.0	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
Ethyl methacrylate	ND	1.0	ug/L	SW846 8260B
Trichlorofluoromethane	ND	1.0	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
1,1,1,2-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

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: SL1271 **Work Order #...:** MTT2A1AA **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	101	(85 - 120)
Dibromofluoromethane	102	(85 - 118)
1,2-Dichloroethane-d4	96	(80 - 119)
4-Bromofluorobenzene	102	(84 - 115)

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 #: F2E290000-099 B **Work Order #:** MTT2A1AA **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 #...: SL1271 **Work Order #...:** MTT2A1AC **Matrix.....:** WATER
LCS Lot-Sample#: F2E290000-099
Prep Date.....: 05/29/12 **Analysis Date..:** 05/29/12
Prep Batch #...: 2150099
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
1,2-Dichloroethene (total)	20.0	21.0	ug/L	105	SW846 8260B
1,2-Dichloropropane	10.0	9.88	ug/L	99	SW846 8260B
Bromodichloromethane	10.0	10.0	ug/L	100	SW846 8260B
trans-1,3-Dichloropropene	10.0	10.5	ug/L	105	SW846 8260B
cis-1,3-Dichloropropene	10.0	10.9	ug/L	109	SW846 8260B
Dibromochloromethane	10.0	9.50	ug/L	95	SW846 8260B
Chloromethane	10.0	10.3	ug/L	103	SW846 8260B
Bromomethane	10.0	10.4	ug/L	104	SW846 8260B
Chloroethane	10.0	10.4	ug/L	104	SW846 8260B
1,1-Dichloroethene	10.0	10.6	ug/L	106	SW846 8260B
2-Hexanone	10.0	8.16	ug/L	82	SW846 8260B
Chlorobenzene	10.0	9.64	ug/L	96	SW846 8260B
Bromoform	10.0	9.81	ug/L	98	SW846 8260B
Ethylbenzene	10.0	10.5	ug/L	105	SW846 8260B
Styrene	10.0	10.6	ug/L	106	SW846 8260B
1,1,2,2-Tetrachloroethane	10.0	9.88	ug/L	99	SW846 8260B
Allyl chloride	10.0	9.82	ug/L	98	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)	10.0	8.75	ug/L	87	SW846 8260B
1,2-Dibromoethane	10.0	9.71	ug/L	97	SW846 8260B
trans-1,4-Dichloro-2-butene	10.0	9.22	ug/L	92	SW846 8260B
Dichlorodifluoromethane (Freon 12)	10.0	10.8	ug/L	108	SW846 8260B
Ethyl methacrylate	10.0	8.21	ug/L	82	SW846 8260B
Methyl methacrylate	10.0	8.06	ug/L	81	SW846 8260B
1,1,1,2-Tetrachloroethane	10.0	9.42	ug/L	94	SW846 8260B
Trichlorofluoromethane	10.0	10.5	ug/L	105	SW846 8260B
Acetonitrile	50.0	46.1	ug/L	92	SW846 8260B
Iodomethane	10.0	11.1	ug/L	111	SW846 8260B
Vinyl acetate	10.0	7.61	ug/L	76	SW846 8260B
Acrolein	50.0	44.9	ug/L	90	SW846 8260B
Isobutanol	200	139	ug/L	69	SW846 8260B

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: SL1271 **Work Order #...:** MTT2A1AC **Matrix.....:** WATER
LCS Lot-Sample#: F2E290000-099

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Methacrylonitrile	50.0	41.5	ug/L	83	SW846 8260B
1,4-Dioxane	200	143	ug/L	71	SW846 8260B
Chloroprene	10.0	8.96	ug/L	90	SW846 8260B
Dibromomethane	10.0	9.60	ug/L	96	SW846 8260B
1,2,3-Trichloropropane	10.0	9.91	ug/L	99	SW846 8260B
Vinyl chloride	10.0	10.4	ug/L	104	SW846 8260B
Acetone	10.0	7.39	ug/L	74	SW846 8260B
Methylene chloride	10.0	9.96	ug/L	100	SW846 8260B
Carbon disulfide	10.0	11.6	ug/L	116	SW846 8260B
1,1-Dichloroethane	10.0	10.4	ug/L	104	SW846 8260B
2-Butanone	10.0	8.47	ug/L	85	SW846 8260B
Chloroform	10.0	10.1	ug/L	101	SW846 8260B
cis-1,2-Dichloroethene	10.0	10.5	ug/L	105	SW846 8260B
Propionitrile	50.0	38.0	ug/L	76	SW846 8260B
trans-1,2-Dichloroethene	10.0	10.5	ug/L	105	SW846 8260B
1,1,1-Trichloroethane	10.0	10.4	ug/L	104	SW846 8260B
Carbon tetrachloride	10.0	10.3	ug/L	103	SW846 8260B
1,2-Dichloroethane	10.0	9.46	ug/L	95	SW846 8260B
Benzene	10.0	10.4	ug/L	104	SW846 8260B
Trichloroethene	10.0	10.3	ug/L	103	SW846 8260B
4-Methyl-2-pentanone	10.0	8.73	ug/L	87	SW846 8260B
1,1,2-Trichloroethane	10.0	9.13	ug/L	91	SW846 8260B
Tetrachloroethene	10.0	10.3	ug/L	103	SW846 8260B
Tetrahydrofuran	50.0	39.3	ug/L	79	SW846 8260B
1,4-Dichlorobenzene	10.0	10.0	ug/L	100	SW846 8260B
1-Butanol	100	70.9	ug/L	71	SW846 8260B
Toluene	10.0	9.69	ug/L	97	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	103	(88 - 120)
Dibromofluoromethane	104	(87 - 115)
1,2-Dichloroethane-d4	100	(81 - 117)
4-Bromofluorobenzene	109	(84 - 117)

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: SL1271 **Work Order #...:** MTT2A1AC **Matrix.....:** WATER
LCS Lot-Sample#: F2E290000-099

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 #...: SL1271 **Work Order #...:** MTQML1AD-MS **Matrix.....:** WATER
MS Lot-Sample #: F2E230450-001 MTQML1AE-MSD
Date Sampled...: 05/21/12 **Date Received..:** 05/23/12
Prep Date.....: 05/29/12 **Analysis Date..:** 05/29/12
Prep Batch #...: 2150099
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
1,4-Dioxane	ND	200	133	ug/L	66		SW846 8260B
	ND	200	145	ug/L	73	9.1	SW846 8260B
1,1-Dichloroethene	ND	10.0	9.98	ug/L	100		SW846 8260B
	ND	10.0	9.99	ug/L	100	0.11	SW846 8260B
Ethylbenzene	ND	10.0	10.1	ug/L	101		SW846 8260B
	ND	10.0	10.2	ug/L	102	1.6	SW846 8260B
Trichlorofluoromethane		10.0	9.94	ug/L	99		SW846 8260B
		10.0	10.0	ug/L	100	0.62	SW846 8260B
Methyl methacrylate		10.0	7.70	ug/L	77		SW846 8260B
		10.0	7.38	ug/L	74	4.3	SW846 8260B
1,1,1,2-Tetrachloroethane		10.0	9.30	ug/L	93		SW846 8260B
		10.0	9.29	ug/L	93	0.07	SW846 8260B
Isobutanol		200	119	ug/L	60		SW846 8260B
		200	122	ug/L	61	2.6	SW846 8260B
Methacrylonitrile		50.0	41.0	ug/L	82		SW846 8260B
		50.0	38.5	ug/L	77	6.4	SW846 8260B
Acetonitrile		50.0	41.0	ug/L	82		SW846 8260B
		50.0	39.9	ug/L	80	2.5	SW846 8260B
Iodomethane		10.0	10.5	ug/L	105		SW846 8260B
		10.0	10.8	ug/L	108	2.6	SW846 8260B
Vinyl acetate		10.0	7.71	ug/L	77		SW846 8260B
		10.0	7.51	ug/L	75	2.7	SW846 8260B
Acrolein		50.0	44.4	ug/L	89		SW846 8260B
		50.0	42.1	ug/L	84	5.1	SW846 8260B
cis-1,3-Dichloropropene		10.0	10.5	ug/L	105		SW846 8260B
		10.0	10.3	ug/L	103	1.6	SW846 8260B
Chloromethane		10.0	9.74	ug/L	97		SW846 8260B
		10.0	10.1	ug/L	101	3.4	SW846 8260B
Bromomethane		10.0	10.0	ug/L	100		SW846 8260B
		10.0	10.3	ug/L	103	2.6	SW846 8260B
Chloroethane		10.0	9.83	ug/L	98		SW846 8260B
		10.0	10.2	ug/L	102	3.9	SW846 8260B
1,2-Dichloroethene (total)		20.0	19.8	ug/L	99		SW846 8260B
		20.0	20.1	ug/L	101	1.7	SW846 8260B
1,2-Dichloropropane		10.0	9.84	ug/L	98		SW846 8260B
		10.0	9.69	ug/L	97	1.5	SW846 8260B
Bromodichloromethane		10.0	9.92	ug/L	99		SW846 8260B
		10.0	10.0	ug/L	100	0.97	SW846 8260B

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: SL1271 **Work Order #...:** MTQML1AD-MS **Matrix.....:** WATER
MS Lot-Sample #: F2E230450-001 MTQML1AE-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
trans-1,3-Dichloropropene		10.0	10.3	ug/L	103		SW846 8260B
		10.0	10.1	ug/L	101	1.2	SW846 8260B
2-Hexanone		10.0	7.69	ug/L	77		SW846 8260B
		10.0	7.29	ug/L	73	5.3	SW846 8260B
Chlorobenzene		10.0	9.44	ug/L	94		SW846 8260B
		10.0	9.58	ug/L	96	1.4	SW846 8260B
Bromoform		10.0	8.73	ug/L	87		SW846 8260B
		10.0	9.13	ug/L	91	4.4	SW846 8260B
Styrene		10.0	10.4	ug/L	104		SW846 8260B
		10.0	10.3	ug/L	103	0.77	SW846 8260B
1,1,2,2-Tetrachloroethane		10.0	9.34	ug/L	93		SW846 8260B
		10.0	8.96	ug/L	90	4.2	SW846 8260B
Dibromochloromethane		10.0	9.42	ug/L	94		SW846 8260B
		10.0	8.99	ug/L	90	4.7	SW846 8260B
Allyl chloride		10.0	9.31	ug/L	93		SW846 8260B
		10.0	9.71	ug/L	97	4.1	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)		10.0	9.04	ug/L	90		SW846 8260B
		10.0	8.09	ug/L	81	11	SW846 8260B
1,2-Dibromoethane		10.0	9.39	ug/L	94		SW846 8260B
		10.0	9.25	ug/L	92	1.6	SW846 8260B
trans-1,4-Dichloro-2-butene		10.0	8.63	ug/L	86		SW846 8260B
		10.0	8.30	ug/L	83	3.9	SW846 8260B
Dichlorodifluoromethane (Freon 12)		10.0	9.89	ug/L	99		SW846 8260B
		10.0	10.2	ug/L	102	3.6	SW846 8260B
Ethyl methacrylate		10.0	7.95	ug/L	80		SW846 8260B
		10.0	7.54	ug/L	75	5.4	SW846 8260B
Chloroprene		10.0	8.34	ug/L	83		SW846 8260B
		10.0	8.61	ug/L	86	3.2	SW846 8260B
Dibromomethane		10.0	9.70	ug/L	97		SW846 8260B
		10.0	9.36	ug/L	94	3.6	SW846 8260B
1,2,3-Trichloropropane		10.0	9.28	ug/L	93		SW846 8260B
		10.0	9.00	ug/L	90	3.1	SW846 8260B
Vinyl chloride	ND	10.0	9.34	ug/L	93		SW846 8260B
	ND	10.0	9.91	ug/L	99	5.9	SW846 8260B
Acetone	4.6	10.0	12.6	ug/L	80		SW846 8260B
	4.6	10.0	14.4	ug/L	98	13	SW846 8260B

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: SL1271 **Work Order #...:** MTQML1AD-MS **Matrix.....:** WATER
MS Lot-Sample #: F2E230450-001 MTQML1AE-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Methylene chloride	1.2	10.0	10.9	ug/L	97		SW846 8260B
	1.2	10.0	11.0	ug/L	98	0.82	SW846 8260B
Carbon disulfide	ND	10.0	11.0	ug/L	110		SW846 8260B
	ND	10.0	11.2	ug/L	112	2.0	SW846 8260B
1,1-Dichloroethane	ND	10.0	9.83	ug/L	98		SW846 8260B
	ND	10.0	10.2	ug/L	102	3.7	SW846 8260B
2-Butanone	ND	10.0	8.45	ug/L	85		SW846 8260B
	ND	10.0	7.42	ug/L	74	13	SW846 8260B
Chloroform	ND	10.0	10.2	ug/L	102		SW846 8260B
	ND	10.0	10.0	ug/L	100	1.9	SW846 8260B
cis-1,2-Dichloroethene	ND	10.0	9.88	ug/L	99		SW846 8260B
	ND	10.0	10.1	ug/L	101	1.9	SW846 8260B
Propionitrile	ND	50.0	38.4	ug/L	77		SW846 8260B
	ND	50.0	36.2	ug/L	72 T	6.2	SW846 8260B
trans-1,2-Dichloroethene	ND	10.0	9.90	ug/L	99		SW846 8260B
	ND	10.0	10.0	ug/L	100	1.5	SW846 8260B
1,1,1-Trichloroethane	ND	10.0	9.98	ug/L	100		SW846 8260B
	ND	10.0	10.0	ug/L	100	0.42	SW846 8260B
Carbon tetrachloride	ND	10.0	10.0	ug/L	100		SW846 8260B
	ND	10.0	10.0	ug/L	100	0.30	SW846 8260B
1,2-Dichloroethane	ND	10.0	9.25	ug/L	92		SW846 8260B
	ND	10.0	9.16	ug/L	92	0.92	SW846 8260B
Benzene	ND	10.0	10.2	ug/L	102		SW846 8260B
	ND	10.0	10.3	ug/L	103	0.09	SW846 8260B
Trichloroethene	ND	10.0	9.77	ug/L	98		SW846 8260B
	ND	10.0	9.92	ug/L	99	1.5	SW846 8260B
4-Methyl-2-pentanone	ND	10.0	8.57	ug/L	86		SW846 8260B
	ND	10.0	7.79	ug/L	78	9.5	SW846 8260B
1,1,2-Trichloroethane	ND	10.0	9.29	ug/L	93		SW846 8260B
	ND	10.0	9.17	ug/L	92	1.2	SW846 8260B
Tetrachloroethene	ND	10.0	9.66	ug/L	97		SW846 8260B
	ND	10.0	9.80	ug/L	98	1.4	SW846 8260B
Tetrahydrofuran	ND	50.0	39.0	ug/L	78		SW846 8260B
	ND	50.0	37.5	ug/L	75	3.7	SW846 8260B
1,4-Dichlorobenzene	ND	10.0	9.58	ug/L	96		SW846 8260B
	ND	10.0	9.52	ug/L	95	0.72	SW846 8260B
1-Butanol	ND	100	65.2	ug/L	65		SW846 8260B
	ND	100	61.4	ug/L	61	5.9	SW846 8260B
Toluene	ND	10.0	9.64	ug/L	96		SW846 8260B
	ND	10.0	9.73	ug/L	97	0.94	SW846 8260B

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: SL1271 **Work Order #...:** MTQML1AD-MS **Matrix.....:** WATER
MS Lot-Sample #: F2E230450-001 MTQML1AE-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	102	(85 - 120)
	101	(85 - 120)
Dibromofluoromethane	103	(85 - 118)
	103	(85 - 118)
1,2-Dichloroethane-d4	100	(80 - 119)
	95	(80 - 119)
4-Bromofluorobenzene	103	(84 - 115)
	102	(84 - 115)

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 #...: SL1271 **Work Order #...:** MTQMP1AJ-MS **Matrix.....:** WATER
MS Lot-Sample #: F2E230451-001 MTQMP1AK-MSD
Date Sampled...: 05/21/12 **Date Received..:** 05/23/12
Prep Date.....: 05/29/12 **Analysis Date..:** 05/29/12
Prep Batch #...: 2150099
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
cis-1,3-Dichloropropene	ND	10.0	10.6	ug/L	106		SW846 8260B
	ND	10.0	10.7	ug/L	107	0.56	SW846 8260B
Chloromethane	ND	10.0	8.97	ug/L	90		SW846 8260B
	ND	10.0	9.46	ug/L	95	5.3	SW846 8260B
Bromomethane	ND	10.0	10.1	ug/L	101		SW846 8260B
	ND	10.0	10.3	ug/L	103	1.8	SW846 8260B
Chloroethane	ND	10.0	10.2	ug/L	102		SW846 8260B
	ND	10.0	10.2	ug/L	102	0.49	SW846 8260B
1,1-Dichloroethene	ND	10.0	10.5	ug/L	105		SW846 8260B
	ND	10.0	10.2	ug/L	102	3.1	SW846 8260B
1,2-Dichloroethene (total)	ND	20.0	20.5	ug/L	102		SW846 8260B
	ND	20.0	20.6	ug/L	103	0.73	SW846 8260B
1,2-Dichloropropane	ND	10.0	9.70	ug/L	97		SW846 8260B
	ND	10.0	9.77	ug/L	98	0.72	SW846 8260B
Bromodichloromethane	ND	10.0	10.1	ug/L	101		SW846 8260B
	ND	10.0	10.2	ug/L	102	1.7	SW846 8260B
trans-1,3-Dichloropropene	ND	10.0	10.6	ug/L	106		SW846 8260B
	ND	10.0	10.3	ug/L	103	2.0	SW846 8260B
2-Hexanone	ND	10.0	8.09	ug/L	81		SW846 8260B
	ND	10.0	7.93	ug/L	79	2.0	SW846 8260B
Chlorobenzene	ND	10.0	9.36	ug/L	94		SW846 8260B
	ND	10.0	9.65	ug/L	97	3.1	SW846 8260B
Bromoform	ND	10.0	9.92	ug/L	99		SW846 8260B
	ND	10.0	9.55	ug/L	96	3.8	SW846 8260B
Ethylbenzene	ND	10.0	10.1	ug/L	101		SW846 8260B
	ND	10.0	10.2	ug/L	102	1.7	SW846 8260B
Styrene	ND	10.0	9.93	ug/L	99		SW846 8260B
	ND	10.0	10.2	ug/L	102	2.2	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	10.0	9.66	ug/L	97		SW846 8260B
	ND	10.0	9.56	ug/L	96	1.1	SW846 8260B
Dibromochloromethane	ND	10.0	9.43	ug/L	94		SW846 8260B
	ND	10.0	9.38	ug/L	94	0.54	SW846 8260B
Allyl chloride	ND	10.0	9.44	ug/L	94		SW846 8260B
	ND	10.0	9.50	ug/L	95	0.56	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)	ND	10.0	8.85	ug/L	89		SW846 8260B
	ND	10.0	8.80	ug/L	88	0.63	SW846 8260B

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: SL1271 **Work Order #...:** MTQMP1AJ-MS **Matrix.....:** WATER
MS Lot-Sample #: F2E230451-001 MTQMP1AK-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
1,2-Dibromoethane	ND	10.0	9.36	ug/L	94		SW846 8260B
	ND	10.0	9.38	ug/L	94	0.18	SW846 8260B
trans-1,4-Dichloro-2-butene	ND	10.0	9.52	ug/L	95		SW846 8260B
	ND	10.0	8.66	ug/L	87	9.5	SW846 8260B
Dichlorodifluoromethane (Freon 12)	ND	10.0	10.6	ug/L	106		SW846 8260B
	ND	10.0	10.5	ug/L	105	0.57	SW846 8260B
Ethyl methacrylate	ND	10.0	8.24	ug/L	82		SW846 8260B
	ND	10.0	8.12	ug/L	81	1.5	SW846 8260B
Methyl methacrylate	ND	10.0	7.85	ug/L	78		SW846 8260B
	ND	10.0	7.92	ug/L	79	0.90	SW846 8260B
1,1,1,2-Tetrachloroethane	ND	10.0	9.24	ug/L	92		SW846 8260B
	ND	10.0	9.56	ug/L	96	3.5	SW846 8260B
Trichlorofluoromethane	ND	10.0	10.4	ug/L	104		SW846 8260B
	ND	10.0	10.4	ug/L	104	0.19	SW846 8260B
Acetonitrile	ND	50.0	41.1	ug/L	82		SW846 8260B
	ND	50.0	40.8	ug/L	82	0.80	SW846 8260B
Iodomethane	ND	10.0	11.5	ug/L	115		SW846 8260B
	ND	10.0	11.4	ug/L	114	0.87	SW846 8260B
Vinyl acetate	ND	10.0	8.01	ug/L	80		SW846 8260B
	ND	10.0	8.08	ug/L	81	0.84	SW846 8260B
Acrolein	ND	50.0	46.6	ug/L	93		SW846 8260B
	ND	50.0	45.3	ug/L	91	2.8	SW846 8260B
Isobutanol	ND	200	134	ug/L	67		SW846 8260B
	ND	200	136	ug/L	68	1.2	SW846 8260B
Methacrylonitrile	ND	50.0	41.9	ug/L	84		SW846 8260B
	ND	50.0	40.8	ug/L	82	2.6	SW846 8260B
1,4-Dioxane	ND	200	138	ug/L	69		SW846 8260B
	ND	200	134	ug/L	67	2.6	SW846 8260B
Chloroprene	ND	10.0	8.68	ug/L	87		SW846 8260B
	ND	10.0	8.75	ug/L	88	0.81	SW846 8260B
Dibromomethane	ND	10.0	9.91	ug/L	99		SW846 8260B
	ND	10.0	9.65	ug/L	97	2.6	SW846 8260B
1,2,3-Trichloropropane	ND	10.0	9.74	ug/L	97		SW846 8260B
	ND	10.0	9.59	ug/L	96	1.5	SW846 8260B
Vinyl chloride	ND	10.0	10.2	ug/L	102		SW846 8260B
	ND	10.0	10.0	ug/L	100	1.2	SW846 8260B
Acetone	1.3	10.0	8.06	ug/L	67		SW846 8260B
	1.3	10.0	7.90	ug/L	66	2.0	SW846 8260B

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: SL1271 **Work Order #...:** MTQMP1AJ-MS **Matrix.....:** WATER
MS Lot-Sample #: F2E230451-001 MTQMP1AK-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Methylene chloride	0.34	10.0	10.1	ug/L	98		SW846 8260B
	0.34	10.0	10.5	ug/L	101	3.3	SW846 8260B
Carbon disulfide	ND	10.0	11.3	ug/L	113		SW846 8260B
	ND	10.0	11.5	ug/L	115	1.2	SW846 8260B
1,1-Dichloroethane	ND	10.0	10.1	ug/L	101		SW846 8260B
	ND	10.0	10.2	ug/L	102	0.39	SW846 8260B
2-Butanone	ND	10.0	8.78	ug/L	88		SW846 8260B
	ND	10.0	8.20	ug/L	82	6.8	SW846 8260B
Chloroform	0.96	10.0	11.0	ug/L	101		SW846 8260B
	0.96	10.0	11.1	ug/L	102	0.72	SW846 8260B
cis-1,2-Dichloroethene	ND	10.0	10.3	ug/L	103		SW846 8260B
	ND	10.0	10.2	ug/L	102	1.2	SW846 8260B
Propionitrile	ND	50.0	38.7	ug/L	77		SW846 8260B
	ND	50.0	37.1	ug/L	74	4.2	SW846 8260B
trans-1,2-Dichloroethene	ND	10.0	10.1	ug/L	101		SW846 8260B
	ND	10.0	10.4	ug/L	104	2.5	SW846 8260B
1,1,1-Trichloroethane	ND	10.0	10.1	ug/L	101		SW846 8260B
	ND	10.0	10.2	ug/L	102	0.78	SW846 8260B
Carbon tetrachloride	ND	10.0	10.1	ug/L	101		SW846 8260B
	ND	10.0	10.0	ug/L	100	1.0	SW846 8260B
1,2-Dichloroethane	ND	10.0	9.41	ug/L	94		SW846 8260B
	ND	10.0	9.25	ug/L	92	1.7	SW846 8260B
Benzene	ND	10.0	10.2	ug/L	102		SW846 8260B
	ND	10.0	10.3	ug/L	103	0.29	SW846 8260B
Trichloroethene	ND	10.0	9.92	ug/L	99		SW846 8260B
	ND	10.0	10.2	ug/L	102	3.0	SW846 8260B
4-Methyl-2-pentanone	ND	10.0	8.90	ug/L	89		SW846 8260B
	ND	10.0	8.49	ug/L	85	4.7	SW846 8260B
1,1,2-Trichloroethane	ND	10.0	9.03	ug/L	90		SW846 8260B
	ND	10.0	9.07	ug/L	91	0.42	SW846 8260B
Tetrachloroethene	ND	10.0	9.97	ug/L	100		SW846 8260B
	ND	10.0	10.2	ug/L	102	1.9	SW846 8260B
Tetrahydrofuran	ND	50.0	40.5	ug/L	81		SW846 8260B
	ND	50.0	39.7	ug/L	79	1.8	SW846 8260B
1,4-Dichlorobenzene	ND	10.0	9.58	ug/L	96		SW846 8260B
	ND	10.0	10.0	ug/L	100	4.2	SW846 8260B
1-Butanol	ND	100	70.4	ug/L	70		SW846 8260B
	ND	100	64.3	ug/L	64	9.0	SW846 8260B
Toluene	ND	10.0	9.46	ug/L	95		SW846 8260B
	ND	10.0	9.59	ug/L	96	1.4	SW846 8260B

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: SL1271 **Work Order #...:** MTQMP1AJ-MS **Matrix.....:** WATER
MS Lot-Sample #: F2E230451-001 MTQMP1AK-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	100	(85 - 120)
	102	(85 - 120)
Dibromofluoromethane	106	(85 - 118)
	107	(85 - 118)
1,2-Dichloroethane-d4	101	(80 - 119)
	99	(80 - 119)
4-Bromofluorobenzene	106	(84 - 115)
	107	(84 - 115)

NOTE(S):

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

Bold print denotes control parameters

GC/MS
SEMI-VOLATILES

CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2KWK4

GC/MS Semivolatiles

Lot-Sample #...: F2E230451-001 **Work Order #...:** MTQMP1AE **Matrix.....:** WATER
Date Sampled...: 05/21/12 **Date Received..:** 05/23/12
Prep Date.....: 05/25/12 **Analysis Date..:** 06/09/12
Prep Batch #...: 2146061
Dilution Factor: 1 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Hexachloropropene	ND	100	ug/L	1.0
N-Nitro-o-toluidine	ND	20	ug/L	1.0
3-Methylphenol & 4-Methylphenol	ND	10	ug/L	2.0
Pyridine	ND	20	ug/L	2.0
N-Nitrosodimethylamine	ND	10	ug/L	2.0
2-Picoline	ND	20	ug/L	2.0
N-Nitrosomethylethylamine	ND	10	ug/L	1.0
Methyl methanesulfonate	ND	10	ug/L	1.0
Methyl parathion	ND	50	ug/L	1.0
N-Nitrosodiethylamine	ND	10	ug/L	1.1
Ethyl methanesulfonate	ND	10	ug/L	1.0
Phenol	ND	10	ug/L	2.0
Pentachloroethane	ND	50	ug/L	1.3
Aniline	ND	10	ug/L	1.3
bis(2-Chloroethyl)-ether	ND	10	ug/L	1.0
2-Chlorophenol	ND	10	ug/L	1.0
1,3-Dichlorobenzene	ND	10	ug/L	1.0
1,4-Dichlorobenzene	ND	10	ug/L	1.0
Benzyl alcohol	ND	10	ug/L	1.0
Hexachlorophene	ND	100	ug/L	10
1,2-Dichlorobenzene	ND	10	ug/L	1.0
2-Methylphenol	ND	10	ug/L	1.0
2,2'-oxybis (1-Chloropropane)	ND	10	ug/L	1.0
Acetophenone	ND	10	ug/L	1.1
4-Methylphenol	ND	10	ug/L	10
N-Nitrosopyrrolidine	ND	10	ug/L	1.0
N-Nitrosomorpholine	ND	10	ug/L	1.2
o-Toluidine	ND	20	ug/L	1.0
N-Nitrosodi-n-propyl-amine	ND	10	ug/L	1.0
Hexachloroethane	ND	10	ug/L	1.0
2-Methylnaphthalene	ND	10	ug/L	1.0
Nitrobenzene	ND	10	ug/L	1.1
N-Nitrosopiperidine	ND	10	ug/L	1.0
Isophorone	ND	10	ug/L	1.0
2-Nitrophenol	ND	10	ug/L	1.0

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CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2KWK4

GC/MS Semivolatiles

Lot-Sample #...: F2E230451-001 **Work Order #...:** MTQMP1AE **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4-Dimethylphenol	ND	10	ug/L	1.0
O,O,O-Triethylphosphoro-thioate	ND	50	ug/L	1.1
bis(2-Chloroethoxy) methane	ND	10	ug/L	1.0
alpha,alpha-Dimethylphenethylamine	ND	50	ug/L	22
2,4-Dichlorophenol	ND	10	ug/L	1.1
1,2,4-Trichloro-benzene	ND	10	ug/L	1.0
Naphthalene	ND	10	ug/L	1.0
2,6-Dichlorophenol	ND	10	ug/L	1.0
4-Chloroaniline	ND	10	ug/L	2.2
Hexachlorobutadiene	ND	10	ug/L	1.0
p-Phenylene diamine	ND	100	ug/L	1.0
4-Chloro-3-methylphenol	ND	10	ug/L	1.0
Safrole	ND	20	ug/L	1.0
1,2,4,5-Tetrachloro-benzene	ND	10	ug/L	1.0
Hexachlorocyclopenta-diene	ND	50	ug/L	1.0
2,4,6-Trichloro-phenol	ND	10	ug/L	1.0
2,4,5-Trichloro-phenol	ND	10	ug/L	1.0
2-Chloronaphthalene	ND	10	ug/L	1.0
Isosafrole	ND	20	ug/L	1.3
2-Nitroaniline	ND	50	ug/L	1.0
1,4-Naphthoquinone	ND	50	ug/L	2.3
Dimethyl phthalate	**1.7 J,B**	**10**	**ug/L**	**1.0**
N-Nitrosodi-n-butylamine	ND	10	ug/L	1.0
1,3-Dinitrobenzene	ND	10	ug/L	1.0
Acenaphthylene	ND	10	ug/L	1.0
2,6-Dinitrotoluene	ND	10	ug/L	2.2
3-Nitroaniline	ND	50	ug/L	1.0
Acenaphthene	ND	10	ug/L	1.0
2,4-Dinitrophenol	ND	50	ug/L	2.0
4-Nitrophenol	ND	50	ug/L	2.0
Dibenzofuran	ND	10	ug/L	1.0
Pentachlorobenzene	ND	10	ug/L	1.0
2,4-Dinitrotoluene	ND	10	ug/L	1.0
1-Naphthylamine	ND	10	ug/L	1.2
2,3,4,6-Tetrachlorophenol	ND	50	ug/L	1.2

(Continued on next page)

CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2KWK4

GC/MS Semivolatiles

Lot-Sample #...: F2E230451-001 **Work Order #...:** MTQMP1AE **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2-Naphthylamine	ND	10	ug/L	1.0
O,O-Diethyl-O-(2-pyrazinyl) phosphorothioate	ND	50	ug/L	1.0
Diethyl phthalate	**1.1 J**	**10**	**ug/L**	**1.0**
Fluorene	ND	10	ug/L	1.0
4-Chlorophenyl phenyl ether	ND	10	ug/L	1.0
4-Nitroaniline	ND	50	ug/L	1.0
4,6-Dinitro-2-methylphenol	ND	50	ug/L	1.0
Diphenylamine+N-Nitrosodiphenylamine	ND	10	ug/L	1.0
Azobenzene	ND	10	ug/L	1.0
Tetraethyldithiopyrophosphate	ND	50	ug/L	1.0
1,3,5-Trinitrobenzene	ND	50	ug/L	1.2
Diallate	ND	20	ug/L	2.0
Phorate	ND	50	ug/L	1.0
4-Bromophenyl phenyl ether	ND	10	ug/L	1.0
Phenacetin	ND	20	ug/L	1.0
Dimethoate	ND	20	ug/L	1.0
Hexachlorobenzene	ND	10	ug/L	1.0
Pentachlorophenol	ND	50	ug/L	1.3
Pentachloronitrobenzene	ND	50	ug/L	1.0
4-Aminobiphenyl	ND	50	ug/L	1.0
Pronamide	ND	20	ug/L	1.0
Disulfoton	ND	50	ug/L	1.0
Phenanthrene	ND	10	ug/L	1.0
Anthracene	ND	10	ug/L	1.0
Carbazole	ND	10	ug/L	1.0
Dinoseb	ND	20	ug/L	2.0
4-Nitroquinoline-1-oxide	ND	100	ug/L	5.0
Parathion	ND	50	ug/L	1.0
Methapyrilene	ND	50	ug/L	1.3
Fluoranthene	ND	10	ug/L	1.0
Isodrin	ND	10	ug/L	1.0
Pyrene	ND	10	ug/L	1.0
Aramite 1	ND	20	ug/L	20
Aramite 2	ND	20	ug/L	20
p-Dimethylaminoazobenzene	ND	20	ug/L	1.0
p-Chlorobenzilate	ND	10	ug/L	1.0

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CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2KWK4

GC/MS Semivolatiles

Lot-Sample #...: F2E230451-001 **Work Order #...:** MTQMP1AE **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Famphur	ND	100	ug/L	1.7
Kepone	ND	100	ug/L	20
3,3'-Dimethylbenzidine	ND	50	ug/L	2.6
Butyl benzyl phthalate	ND	10	ug/L	1.0
2-Acetylaminofluorene	ND	100	ug/L	1.0
Benzo(a)anthracene	ND	10	ug/L	1.0
3,3'-Dichlorobenzidine	ND	50	ug/L	1.3
Chrysene	ND	10	ug/L	1.0
bis(2-Ethylhexyl) phthalate	ND	10	ug/L	1.0
Di-n-butyl phthalate	ND	10	ug/L	1.0
Di-n-octyl phthalate	ND	10	ug/L	1.0
7,12-Dimethylbenz(a)-anthracene	ND	20	ug/L	1.0
Benzo(b)fluoranthene	ND	10	ug/L	1.0
Benzo(k)fluoranthene	ND	10	ug/L	1.0
Benzo(a)pyrene	ND	10	ug/L	1.0
3-Methylcholanthrene	ND	20	ug/L	1.0
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	1.0
Benzo(ghi)perylene	ND	10	ug/L	1.0
Dibenz(a,h)anthracene	ND	10	ug/L	1.0
Tributyl phosphate	ND	10	ug/L	1.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	44	(19 - 86)
Phenol-d5	39	(10 - 71)
Nitrobenzene-d5	62	(44 - 100)
2-Fluorobiphenyl	62	(44 - 99)
2,4,6-Tribromophenol	73	(43 - 115)
Terphenyl-d14	89	(45 - 131)

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.

CH2M Hill Plateau Remediation DOE RL

B2KWK4

GC/MS Semivolatiles

Lot-Sample #: F2E230451-001 **Work Order #:** MTQMP1AE **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Unknown aldol condensate		7.6 J	M	3.5663	ug/L

NOTE(S):

M: Result was measured against nearest internal standard assuming a response factor of 1.

CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2KWK3

GC/MS Semivolatiles

Lot-Sample #...: F2E230451-002 **Work Order #...:** MTQMQ1AE **Matrix.....:** WATER
Date Sampled...: 05/21/12 **Date Received..:** 05/23/12
Prep Date.....: 05/25/12 **Analysis Date..:** 06/09/12
Prep Batch #...: 2146061
Dilution Factor: 1 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Hexachloropropene	ND	100	ug/L	1.0
N-Nitro-o-toluidine	ND	20	ug/L	1.0
3-Methylphenol & 4-Methylphenol	ND	20	ug/L	2.0
Pyridine	ND	20	ug/L	2.0
N-Nitrosodimethylamine	ND	10	ug/L	2.0
2-Picoline	ND	20	ug/L	2.0
N-Nitrosomethylethylamine	ND	10	ug/L	1.0
Methyl methanesulfonate	ND	10	ug/L	1.0
Methyl parathion	ND	50	ug/L	1.0
N-Nitrosodiethylamine	ND	10	ug/L	1.1
Ethyl methanesulfonate	ND	10	ug/L	1.0
Phenol	ND	10	ug/L	2.0
Pentachloroethane	ND	50	ug/L	1.3
Aniline	ND	10	ug/L	1.3
bis(2-Chloroethyl)-ether	ND	10	ug/L	1.0
2-Chlorophenol	ND	10	ug/L	1.0
1,3-Dichlorobenzene	ND	10	ug/L	1.0
1,4-Dichlorobenzene	ND	10	ug/L	1.0
Benzyl alcohol	ND	10	ug/L	1.0
Hexachlorophene	ND	100	ug/L	10
1,2-Dichlorobenzene	ND	10	ug/L	1.0
2-Methylphenol	ND	10	ug/L	1.0
2,2'-oxybis (1-Chloropropane)	ND	10	ug/L	1.0
Acetophenone	ND	10	ug/L	1.1
4-Methylphenol	ND	10	ug/L	10
N-Nitrosopyrrolidine	ND	10	ug/L	1.0
N-Nitrosomorpholine	ND	10	ug/L	1.2
o-Toluidine	ND	20	ug/L	1.0
N-Nitrosodi-n-propyl-amine	ND	10	ug/L	1.0
Hexachloroethane	ND	10	ug/L	1.0
2-Methylnaphthalene	ND	10	ug/L	1.0
Nitrobenzene	ND	10	ug/L	1.1
N-Nitrosopiperidine	ND	10	ug/L	1.0
Isophorone	ND	10	ug/L	1.0
2-Nitrophenol	ND	10	ug/L	1.0

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CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2KWK3

GC/MS Semivolatiles

Lot-Sample #...: F2E230451-002 **Work Order #...:** MTQMQ1AE **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4-Dimethylphenol	ND	10	ug/L	1.0
O,O,O-Triethylphosphoro-thioate	ND	50	ug/L	1.1
bis(2-Chloroethoxy) methane	ND	10	ug/L	1.0
alpha,alpha-Dimethylphenethylamine	ND	50	ug/L	22
2,4-Dichlorophenol	ND	10	ug/L	1.1
1,2,4-Trichloro-benzene	ND	10	ug/L	1.0
Naphthalene	ND	10	ug/L	1.0
2,6-Dichlorophenol	ND	10	ug/L	1.0
4-Chloroaniline	ND	10	ug/L	2.2
Hexachlorobutadiene	ND	10	ug/L	1.0
p-Phenylene diamine	ND	100	ug/L	1.0
4-Chloro-3-methylphenol	ND	10	ug/L	1.0
Safrole	ND	20	ug/L	1.0
1,2,4,5-Tetrachloro-benzene	ND	10	ug/L	1.0
Hexachlorocyclopenta-diene	ND	50	ug/L	1.0
2,4,6-Trichloro-phenol	ND	10	ug/L	1.0
2,4,5-Trichloro-phenol	ND	10	ug/L	1.0
2-Chloronaphthalene	ND	10	ug/L	1.0
Isosafrole	ND	20	ug/L	1.3
2-Nitroaniline	ND	50	ug/L	1.0
1,4-Naphthoquinone	ND	50	ug/L	2.3
Dimethyl phthalate	ND	10	ug/L	1.0
N-Nitrosodi-n-butylamine	ND	10	ug/L	1.0
1,3-Dinitrobenzene	ND	10	ug/L	1.0
Acenaphthylene	ND	10	ug/L	1.0
2,6-Dinitrotoluene	ND	10	ug/L	2.2
3-Nitroaniline	ND	50	ug/L	1.0
Acenaphthene	ND	10	ug/L	1.0
2,4-Dinitrophenol	ND	50	ug/L	2.0
4-Nitrophenol	ND	50	ug/L	2.0
Dibenzofuran	ND	10	ug/L	1.0
Pentachlorobenzene	ND	10	ug/L	1.0
2,4-Dinitrotoluene	ND	10	ug/L	1.0
1-Naphthylamine	ND	10	ug/L	1.2
2,3,4,6-Tetrachlorophenol	ND	50	ug/L	1.2

(Continued on next page)

CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2KWK3

GC/MS Semivolatiles

Lot-Sample #...: F2E230451-002 **Work Order #...:** MTQMQ1AE **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2-Naphthylamine	ND	10	ug/L	1.0
O,O-Diethyl-O-(2-pyrazinyl) phosphorothioate	ND	50	ug/L	1.0
Diethyl phthalate	ND	10	ug/L	1.0
Fluorene	ND	10	ug/L	1.0
4-Chlorophenyl phenyl ether	ND	10	ug/L	1.0
4-Nitroaniline	ND	50	ug/L	1.0
4,6-Dinitro-2-methylphenol	ND	50	ug/L	1.0
Diphenylamine+N-Nitrosodiphenylamine	ND	10	ug/L	1.0
Azobenzene	ND	10	ug/L	1.0
Tetraethyldithiopyrophosphate	ND	50	ug/L	1.0
1,3,5-Trinitrobenzene	ND	50	ug/L	1.2
Diallate	ND	20	ug/L	2.0
Phorate	ND	50	ug/L	1.0
4-Bromophenyl phenyl ether	ND	10	ug/L	1.0
Phenacetin	ND	20	ug/L	1.0
Dimethoate	ND	20	ug/L	1.0
Hexachlorobenzene	ND	10	ug/L	1.0
Pentachlorophenol	ND	50	ug/L	1.3
Pentachloronitrobenzene	ND	50	ug/L	1.0
4-Aminobiphenyl	ND	50	ug/L	1.0
Pronamide	ND	20	ug/L	1.0
Disulfoton	ND	50	ug/L	1.0
Phenanthrene	ND	10	ug/L	1.0
Anthracene	ND	10	ug/L	1.0
Carbazole	ND	10	ug/L	1.0
Dinoseb	ND	20	ug/L	2.0
4-Nitroquinoline-1-oxide	ND	100	ug/L	5.0
Parathion	ND	50	ug/L	1.0
Methapyrilene	ND	50	ug/L	1.3
Fluoranthene	ND	10	ug/L	1.0
Isodrin	ND	10	ug/L	1.0
Pyrene	ND	10	ug/L	1.0
Aramite 1	ND	20	ug/L	20
Aramite 2	ND	20	ug/L	20
p-Dimethylaminoazobenzene	ND	20	ug/L	1.0
p-Chlorobenzilate	ND	10	ug/L	1.0

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CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2KWK3

GC/MS Semivolatiles

Lot-Sample #...: F2E230451-002 **Work Order #...:** MTQMQ1AE **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Famphur	ND	100	ug/L	1.7
Kepone	ND	100	ug/L	20
3,3'-Dimethylbenzidine	ND	50	ug/L	2.6
Butyl benzyl phthalate	ND	10	ug/L	1.0
2-Acetylaminofluorene	ND	100	ug/L	1.0
Benzo(a)anthracene	ND	10	ug/L	1.0
3,3'-Dichlorobenzidine	ND	50	ug/L	1.3
Chrysene	ND	10	ug/L	1.0
bis(2-Ethylhexyl) phthalate	ND	10	ug/L	1.0
Di-n-butyl phthalate	ND	10	ug/L	1.0
Di-n-octyl phthalate	ND	10	ug/L	1.0
7,12-Dimethylbenz(a)-anthracene	ND	20	ug/L	1.0
Benzo(b)fluoranthene	ND	10	ug/L	1.0
Benzo(k)fluoranthene	ND	10	ug/L	1.0
Benzo(a)pyrene	ND	10	ug/L	1.0
3-Methylcholanthrene	ND	20	ug/L	1.0
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	1.0
Benzo(ghi)perylene	ND	10	ug/L	1.0
Dibenz(a,h)anthracene	ND	10	ug/L	1.0
Tributyl phosphate	ND	10	ug/L	1.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	24	(19 - 86)
Phenol-d5	18	(10 - 71)
Nitrobenzene-d5	41 *	(44 - 100)
2-Fluorobiphenyl	47	(44 - 99)
2,4,6-Tribromophenol	66	(43 - 115)
Terphenyl-d14	85	(45 - 131)

NOTE(S):

* Surrogate recovery is outside stated control limits.

CH2M Hill Plateau Remediation DOE RL

B2KWK3

GC/MS Semivolatiles

Lot-Sample #: F2E230451-002 **Work Order #:** MTQMQ1AE **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Unknown		6.7 J	M	3.0046	ug/L

NOTE(S):

M: Result was measured against nearest internal standard assuming a response factor of 1.

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: SL1271 **Work Order #...:** MTR3X1AA **Matrix.....:** WATER
MB Lot-Sample #: F2E250000-061

Prep Date.....: 05/25/12
Analysis Date..: 06/09/12 **Prep Batch #...:** 2146061
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Hexachloropropene	ND	100	ug/L	SW846 8270C
N-Nitro-o-toluidine	ND	20	ug/L	SW846 8270C
3-Methylphenol & 4-Methylphenol	ND	20	ug/L	SW846 8270C
Pyridine	ND	20	ug/L	SW846 8270C
N-Nitrosodimethylamine	ND	10	ug/L	SW846 8270C
2-Picoline	ND	20	ug/L	SW846 8270C
N-Nitrosomethylethylamine	ND	10	ug/L	SW846 8270C
Methyl methanesulfonate	ND	10	ug/L	SW846 8270C
Methyl parathion	ND	50	ug/L	SW846 8270C
N-Nitrosodiethylamine	ND	10	ug/L	SW846 8270C
Ethyl methanesulfonate	ND	10	ug/L	SW846 8270C
Phenol	ND	10	ug/L	SW846 8270C
Pentachloroethane	ND	50	ug/L	SW846 8270C
Aniline	ND	10	ug/L	SW846 8270C
bis(2-Chloroethyl)-ether	ND	10	ug/L	SW846 8270C
2-Chlorophenol	ND	10	ug/L	SW846 8270C
1,3-Dichlorobenzene	ND	10	ug/L	SW846 8270C
1,4-Dichlorobenzene	ND	10	ug/L	SW846 8270C
Hexachlorophene	ND	100	ug/L	SW846 8270C
Benzyl alcohol	ND	10	ug/L	SW846 8270C
1,2-Dichlorobenzene	ND	10	ug/L	SW846 8270C
2-Methylphenol	ND	10	ug/L	SW846 8270C
2,2'-oxybis (1-Chloropropane)	ND	10	ug/L	SW846 8270C
Acetophenone	ND	10	ug/L	SW846 8270C
4-Methylphenol	ND	10	ug/L	SW846 8270C
N-Nitrosopyrrolidine	ND	10	ug/L	SW846 8270C
N-Nitrosomorpholine	ND	10	ug/L	SW846 8270C
o-Toluidine	ND	20	ug/L	SW846 8270C
N-Nitrosodi-n-propyl-amine	ND	10	ug/L	SW846 8270C
Hexachloroethane	ND	10	ug/L	SW846 8270C
2-Methylnaphthalene	ND	10	ug/L	SW846 8270C
Nitrobenzene	ND	10	ug/L	SW846 8270C
N-Nitrosopiperidine	ND	10	ug/L	SW846 8270C
Isophorone	ND	10	ug/L	SW846 8270C
2-Nitrophenol	ND	10	ug/L	SW846 8270C
2,4-Dimethylphenol	ND	10	ug/L	SW846 8270C
O,O,O-Triethylphosphoro-thioate	ND	50	ug/L	SW846 8270C

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METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: SL1271 **Work Order #...:** MTR3X1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
bis(2-Chloroethoxy) methane	ND	10	ug/L	SW846 8270C
alpha,alpha-Dimethylphene	ND	50	ug/L	SW846 8270C
2,4-Dichlorophenol	ND	10	ug/L	SW846 8270C
1,2,4-Trichloro- benzene	ND	10	ug/L	SW846 8270C
Naphthalene	ND	10	ug/L	SW846 8270C
2,6-Dichlorophenol	ND	10	ug/L	SW846 8270C
4-Chloroaniline	ND	10	ug/L	SW846 8270C
Hexachlorobutadiene	ND	10	ug/L	SW846 8270C
p-Phenylene diamine	ND	100	ug/L	SW846 8270C
4-Chloro-3-methylphenol	ND	10	ug/L	SW846 8270C
Safrole	ND	20	ug/L	SW846 8270C
1,2,4,5-Tetrachloro- benzene	ND	10	ug/L	SW846 8270C
Hexachlorocyclopenta- diene	ND	50	ug/L	SW846 8270C
2,4,6-Trichloro- phenol	ND	10	ug/L	SW846 8270C
2,4,5-Trichloro- phenol	ND	10	ug/L	SW846 8270C
2-Chloronaphthalene	ND	10	ug/L	SW846 8270C
Isosafrole	ND	20	ug/L	SW846 8270C
2-Nitroaniline	ND	50	ug/L	SW846 8270C
1,4-Naphthoquinone	ND	50	ug/L	SW846 8270C
Dimethyl phthalate	**13**	**10**	**ug/L**	**SW846 8270C**
N-Nitrosodi-n-butylamine	ND	10	ug/L	SW846 8270C
1,3-Dinitrobenzene	ND	10	ug/L	SW846 8270C
Acenaphthylene	ND	10	ug/L	SW846 8270C
2,6-Dinitrotoluene	ND	10	ug/L	SW846 8270C
3-Nitroaniline	ND	50	ug/L	SW846 8270C
Acenaphthene	ND	10	ug/L	SW846 8270C
2,4-Dinitrophenol	ND	50	ug/L	SW846 8270C
4-Nitrophenol	ND	50	ug/L	SW846 8270C
Dibenzofuran	ND	10	ug/L	SW846 8270C
Pentachlorobenzene	ND	10	ug/L	SW846 8270C
2,4-Dinitrotoluene	ND	10	ug/L	SW846 8270C
1-Naphthylamine	ND	10	ug/L	SW846 8270C
2,3,4,6-Tetrachlorophenol	ND	50	ug/L	SW846 8270C
2-Naphthylamine	ND	10	ug/L	SW846 8270C
O,O-Diethyl-O-(2-pyraziny	ND	50	ug/L	SW846 8270C
Diethyl phthalate	ND	10	ug/L	SW846 8270C
Fluorene	ND	10	ug/L	SW846 8270C
4-Chlorophenyl phenyl ether	ND	10	ug/L	SW846 8270C

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METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: SL1271 **Work Order #...:** MTR3X1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
4-Nitroaniline	ND	50	ug/L	SW846 8270C
4,6-Dinitro-2-methylphenol	ND	50	ug/L	SW846 8270C
Diphenylamine+N-Nitrosodi	ND	10	ug/L	SW846 8270C
Azobenzene	ND	10	ug/L	SW846 8270C
Tetraethyldithiopyro-phosphate	ND	50	ug/L	SW846 8270C
1,3,5-Trinitrobenzene	ND	50	ug/L	SW846 8270C
Diallate	ND	20	ug/L	SW846 8270C
Phorate	ND	50	ug/L	SW846 8270C
4-Bromophenyl phenyl ether	ND	10	ug/L	SW846 8270C
Phenacetin	ND	20	ug/L	SW846 8270C
Dimethoate	ND	20	ug/L	SW846 8270C
Hexachlorobenzene	ND	10	ug/L	SW846 8270C
Pentachlorophenol	ND	50	ug/L	SW846 8270C
Pentachloronitrobenzene	ND	50	ug/L	SW846 8270C
4-Aminobiphenyl	ND	50	ug/L	SW846 8270C
Pronamide	ND	20	ug/L	SW846 8270C
Disulfoton	ND	50	ug/L	SW846 8270C
Phenanthrene	ND	10	ug/L	SW846 8270C
Anthracene	ND	10	ug/L	SW846 8270C
Carbazole	ND	10	ug/L	SW846 8270C
Dinoseb	ND	20	ug/L	SW846 8270C
4-Nitroquinoline-1-oxide	ND	100	ug/L	SW846 8270C
Parathion	ND	50	ug/L	SW846 8270C
Methapyrilene	ND	50	ug/L	SW846 8270C
Fluoranthene	ND	10	ug/L	SW846 8270C
Isodrin	ND	10	ug/L	SW846 8270C
Pyrene	ND	10	ug/L	SW846 8270C
Aramite 1	ND	20	ug/L	SW846 8270C
Aramite 2	ND	20	ug/L	SW846 8270C
p-Dimethylaminoazobenzene	ND	20	ug/L	SW846 8270C
p-Chlorobenzilate	ND	10	ug/L	SW846 8270C
Famphur	ND	100	ug/L	SW846 8270C
Kepone	ND	100	ug/L	SW846 8270C
3,3'-Dimethylbenzidine	ND	50	ug/L	SW846 8270C
Butyl benzyl phthalate	ND	10	ug/L	SW846 8270C
2-Acetylaminofluorene	ND	100	ug/L	SW846 8270C
Benzo(a)anthracene	ND	10	ug/L	SW846 8270C
3,3'-Dichlorobenzidine	ND	50	ug/L	SW846 8270C
Chrysene	ND	10	ug/L	SW846 8270C
bis(2-Ethylhexyl) phthalate	ND	10	ug/L	SW846 8270C

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METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: SL1271 **Work Order #...:** MTR3X1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Di-n-butyl phthalate	ND	10	ug/L	SW846 8270C
Di-n-octyl phthalate	ND	10	ug/L	SW846 8270C
7,12-Dimethylbenz(a)-anthracene	ND	20	ug/L	SW846 8270C
Benzo(b)fluoranthene	ND	10	ug/L	SW846 8270C
Benzo(k)fluoranthene	ND	10	ug/L	SW846 8270C
Benzo(a)pyrene	ND	10	ug/L	SW846 8270C
3-Methylcholanthrene	ND	20	ug/L	SW846 8270C
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	SW846 8270C
Benzo(ghi)perylene	ND	10	ug/L	SW846 8270C
Dibenz(a,h)anthracene	ND	10	ug/L	SW846 8270C
Tributyl phosphate	ND	10	ug/L	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	41	(19 - 86)
Phenol-d5	29	(10 - 71)
Nitrobenzene-d5	64	(44 - 100)
2-Fluorobiphenyl	62	(44 - 99)
2,4,6-Tribromophenol	64	(43 - 115)
Terphenyl-d14	86	(45 - 131)

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 Semivolatiles

Lot-Sample #: F2E250000-061 B **Work Order #:** MTR3X1AA **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Unknown		16 J	M	3.2239	ug/L
Unknown aldol condensate		30 J	M	3.577	ug/L
Dimethyl phthalate	131-11-3	10 J	M	9.53	ug/L

NOTE(S):

M: Result was measured against nearest internal standard assuming a response factor of 1.

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: SL1271 Work Order #...: MTR3X1AC Matrix.....: WATER
LCS Lot-Sample#: F2E250000-061
Prep Date.....: 05/25/12 Analysis Date..: 06/09/12
Prep Batch #...: 2146061
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
3-Methylphenol & 4-Methylphenol	100	58.1	ug/L	58	SW846 8270C
Phenol	100	26.2	ug/L	26	SW846 8270C
bis(2-Chloroethyl)-ether	100	57.7	ug/L	58	SW846 8270C
2-Chlorophenol	100	55.8	ug/L	56	SW846 8270C
1,3-Dichlorobenzene	100	50.3	ug/L	50	SW846 8270C
1,4-Dichlorobenzene	100	50.2	ug/L	50	SW846 8270C
1,2-Dichlorobenzene	100	53.4	ug/L	53	SW846 8270C
2-Methylphenol	100	52.9	ug/L	53	SW846 8270C
2,2'-oxybis (1-Chloropropane)	100	59.4	ug/L	59	SW846 8270C
N-Nitrosodi-n-propyl-amine	100	65.9	ug/L	66	SW846 8270C
Hexachloroethane	100	51.1	ug/L	51	SW846 8270C
Nitrobenzene	100	58.4	ug/L	58	SW846 8270C
2-Methylnaphthalene	100	57.4	ug/L	57	SW846 8270C
Isophorone	100	56.8	ug/L	57	SW846 8270C
2-Nitrophenol	100	59.7	ug/L	60	SW846 8270C
2,4-Dimethylphenol	100	58.2	ug/L	58	SW846 8270C
bis(2-Chloroethoxy) methane	100	60.5	ug/L	60	SW846 8270C
2,4-Dichlorophenol	100	58.5	ug/L	58	SW846 8270C
1,2,4-Trichloro-benzene	100	53.9	ug/L	54	SW846 8270C
Naphthalene	100	56.4	ug/L	56	SW846 8270C
4-Chloroaniline	100	41.8	ug/L	42	SW846 8270C
Hexachlorobutadiene	100	50.3	ug/L	50	SW846 8270C
4-Chloro-3-methylphenol	100	63.9	ug/L	64	SW846 8270C
Hexachlorocyclopenta-diene	100	66.2	ug/L	66	SW846 8270C
2,4,6-Trichloro-phenol	100	63.6	ug/L	64	SW846 8270C
2,4,5-Trichloro-phenol	100	68.2	ug/L	68	SW846 8270C

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: SL1271 **Work Order #...:** MTR3X1AC **Matrix.....:** WATER
LCS Lot-Sample#: F2E250000-061

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
2-Chloronaphthalene	100	60.7	ug/L	61	SW846 8270C
2-Nitroaniline	100	72.7	ug/L	73	SW846 8270C
Dimethyl phthalate	100	71.8	ug/L	72	SW846 8270C
Acenaphthylene	100	64.9	ug/L	65	SW846 8270C
2,6-Dinitrotoluene	100	74.2	ug/L	74	SW846 8270C
3-Nitroaniline	100	63.8	ug/L	64	SW846 8270C
Acenaphthene	100	64.5	ug/L	64	SW846 8270C
2,4-Dinitrophenol	100	66.2	ug/L	66	SW846 8270C
4-Nitrophenol	100	29.3	ug/L	29	SW846 8270C
Dibenzofuran	100	62.4	ug/L	62	SW846 8270C
2,4-Dinitrotoluene	100	76.3	ug/L	76	SW846 8270C
Diethyl phthalate	100	72.6	ug/L	73	SW846 8270C
Fluorene	100	67.3	ug/L	67	SW846 8270C
4-Chlorophenyl phenyl ether	100	66.1	ug/L	66	SW846 8270C
4-Nitroaniline	100	72.1	ug/L	72	SW846 8270C
4,6-Dinitro-2-methylphenol	100	77.5	ug/L	77	SW846 8270C
Diphenylamine+N-Nitrosodi	100	90.2	ug/L	90	SW846 8270C
4-Bromophenyl phenyl ether	100	71.0	ug/L	71	SW846 8270C
Hexachlorobenzene	100	70.4	ug/L	70	SW846 8270C
Pentachlorophenol	100	69.7	ug/L	70	SW846 8270C
Phenanthrene	100	71.6	ug/L	72	SW846 8270C
Anthracene	100	71.4	ug/L	71	SW846 8270C
Carbazole	100	75.8	ug/L	76	SW846 8270C
Fluoranthene	100	75.7	ug/L	76	SW846 8270C
Pyrene	100	77.0	ug/L	77	SW846 8270C
Butyl benzyl phthalate	100	80.2	ug/L	80	SW846 8270C
Benzo(a)anthracene	100	85.6	ug/L	86	SW846 8270C
3,3'-Dichlorobenzidine	100	58.0	ug/L	58	SW846 8270C
Chrysene	100	76.7	ug/L	77	SW846 8270C
bis(2-Ethylhexyl) phthalate	100	82.6	ug/L	83	SW846 8270C
Di-n-butyl phthalate	100	77.4	ug/L	77	SW846 8270C
Di-n-octyl phthalate	100	81.3	ug/L	81	SW846 8270C
Benzo(b)fluoranthene	100	78.4	ug/L	78	SW846 8270C

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: SL1271 **Work Order #...:** MTR3X1AC **Matrix.....:** WATER
LCS Lot-Sample#: F2E250000-061

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Benzo(k)fluoranthene	**100**	**82.6**	**ug/L**	**83**	**SW846 8270C**
Benzo(a)pyrene	**100**	**74.3**	**ug/L**	**74**	**SW846 8270C**
Indeno(1,2,3-cd)pyrene	**100**	**83.2**	**ug/L**	**83**	**SW846 8270C**
Benzo(ghi)perylene	**100**	**83.9**	**ug/L**	**84**	**SW846 8270C**
Dibenz(a,h)anthracene	**100**	**77.2**	**ug/L**	**77**	**SW846 8270C**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	37	(29 - 62)
Phenol-d5	26	(20 - 42)
Nitrobenzene-d5	60	(51 - 98)
2-Fluorobiphenyl	60	(50 - 93)
2,4,6-Tribromophenol	71	(54 - 109)
Terphenyl-d14	87	(60 - 121)

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 Semivolatiles

Client Lot #...: SL1271 **Work Order #...:** MTQMQ1AJ-MS **Matrix.....:** WATER
MS Lot-Sample #: F2E230451-002 MTQMQ1AK-MSD
Date Sampled...: 05/21/12 **Date Received..:** 05/23/12
Prep Date.....: 05/25/12 **Analysis Date..:** 06/09/12
Prep Batch #...: 2146061
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
3-Methylphenol & 4-Methylphenol	ND	95.3	62.1	ug/L	65		SW846 8270C
	ND	95.5	64.1	ug/L	67	3.1	SW846 8270C
Phenol	ND	95.3	27.0	ug/L	28		SW846 8270C
	ND	95.5	28.1	ug/L	29	3.9	SW846 8270C
bis(2-Chloroethyl)-ether	ND	95.3	69.1	ug/L	72		SW846 8270C
	ND	95.5	71.6	ug/L	75	3.5	SW846 8270C
2-Chlorophenol	ND	95.3	64.6	ug/L	68		SW846 8270C
	ND	95.5	66.8	ug/L	70	3.4	SW846 8270C
1,3-Dichlorobenzene	ND	95.3	63.9	ug/L	67		SW846 8270C
	ND	95.5	66.4	ug/L	69	3.8	SW846 8270C
1,4-Dichlorobenzene	ND	95.3	63.8	ug/L	67		SW846 8270C
	ND	95.5	66.0	ug/L	69	3.4	SW846 8270C
1,2-Dichlorobenzene	ND	95.3	66.9	ug/L	70		SW846 8270C
	ND	95.5	68.6	ug/L	72	2.5	SW846 8270C
2-Methylphenol	ND	95.3	58.3	ug/L	61		SW846 8270C
	ND	95.5	59.6	ug/L	62	2.2	SW846 8270C
2,2'-oxybis (1-Chloropropane)	ND	95.3	71.3	ug/L	75		SW846 8270C
	ND	95.5	74.6	ug/L	78	4.6	SW846 8270C
N-Nitrosodi-n-propyl-amine	ND	95.3	75.2	ug/L	79		SW846 8270C
	ND	95.5	77.8	ug/L	81	3.4	SW846 8270C
Hexachloroethane	ND	95.3	66.4	ug/L	70		SW846 8270C
	ND	95.5	69.5	ug/L	73	4.5	SW846 8270C
Nitrobenzene	ND	95.3	68.7	ug/L	72		SW846 8270C
	ND	95.5	72.0	ug/L	75	4.6	SW846 8270C
2-Methylnaphthalene	ND	95.3	65.4	ug/L	69		SW846 8270C
	ND	95.5	67.5	ug/L	71	3.2	SW846 8270C
Isophorone	ND	95.3	64.3	ug/L	68		SW846 8270C
	ND	95.5	66.2	ug/L	69	3.0	SW846 8270C
2-Nitrophenol	ND	95.3	68.7	ug/L	72		SW846 8270C
	ND	95.5	72.1	ug/L	75	4.9	SW846 8270C
2,4-Dimethylphenol	ND	95.3	65.0	ug/L	68		SW846 8270C
	ND	95.5	67.1	ug/L	70	3.2	SW846 8270C

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: SL1271 **Work Order #...:** MTQMQ1AJ-MS **Matrix.....:** WATER
MS Lot-Sample #: F2E230451-002 MTQMQ1AK-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
bis(2-Chloroethoxy) methane	ND	95.3	69.5	ug/L	73		SW846 8270C
	ND	95.5	72.0	ug/L	75	3.6	SW846 8270C
2,4-Dichlorophenol	ND	95.3	66.3	ug/L	70		SW846 8270C
	ND	95.5	68.6	ug/L	72	3.5	SW846 8270C
1,2,4-Trichloro-benzene	ND	95.3	64.2	ug/L	67		SW846 8270C
	ND	95.5	66.6	ug/L	70	3.7	SW846 8270C
Naphthalene	ND	95.3	65.6	ug/L	69		SW846 8270C
	ND	95.5	68.0	ug/L	71	3.6	SW846 8270C
4-Chloroaniline	ND	95.3	43.6	ug/L	46		SW846 8270C
	ND	95.5	44.0	ug/L	46	1.1	SW846 8270C
Hexachlorobutadiene	ND	95.3	62.2	ug/L	65		SW846 8270C
	ND	95.5	66.0	ug/L	69	6.0	SW846 8270C
4-Chloro-3-methylphenol	ND	95.3	67.0	ug/L	70		SW846 8270C
	ND	95.5	69.7	ug/L	73	3.9	SW846 8270C
Hexachlorocyclopenta-diene	ND	95.3	79.1	ug/L	83		SW846 8270C
	ND	95.5	86.2	ug/L	90	8.7	SW846 8270C
2,4,6-Trichloro-phenol	ND	95.3	67.9	ug/L	71		SW846 8270C
	ND	95.5	70.4	ug/L	74	3.7	SW846 8270C
2,4,5-Trichloro-phenol	ND	95.3	70.9	ug/L	74		SW846 8270C
	ND	95.5	72.9	ug/L	76	2.7	SW846 8270C
2-Chloronaphthalene	ND	95.3	67.9	ug/L	71		SW846 8270C
	ND	95.5	69.6	ug/L	73	2.5	SW846 8270C
2-Nitroaniline	ND	95.3	74.5	ug/L	78		SW846 8270C
	ND	95.5	77.7	ug/L	81	4.2	SW846 8270C
Dimethyl phthalate	ND	95.3	73.0	ug/L	77		SW846 8270C
	ND	95.5	74.9	ug/L	78	2.5	SW846 8270C
Acenaphthylene	ND	95.3	70.0	ug/L	74		SW846 8270C
	ND	95.5	72.2	ug/L	76	3.0	SW846 8270C
2,6-Dinitrotoluene	ND	95.3	74.7	ug/L	78		SW846 8270C
	ND	95.5	77.3	ug/L	81	3.4	SW846 8270C
3-Nitroaniline	ND	95.3	62.7	ug/L	66		SW846 8270C
	ND	95.5	62.2	ug/L	65	0.78	SW846 8270C

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: SL1271 **Work Order #...:** MTQMQ1AJ-MS **Matrix.....:** WATER
MS Lot-Sample #: F2E230451-002 MTQMQ1AK-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Acenaphthene	ND	95.3	69.0	ug/L	72		SW846 8270C
	ND	95.5	71.3	ug/L	75	3.2	SW846 8270C
2,4-Dinitrophenol	ND	95.3	67.6	ug/L	71		SW846 8270C
	ND	95.5	73.9	ug/L	77	8.9	SW846 8270C
4-Nitrophenol	ND	95.3	27.3	ug/L	29		SW846 8270C
	ND	95.5	29.2	ug/L	31	6.8	SW846 8270C
Dibenzofuran	ND	95.3	65.4	ug/L	69		SW846 8270C
	ND	95.5	67.8	ug/L	71	3.5	SW846 8270C
2,4-Dinitrotoluene	ND	95.3	76.0	ug/L	80		SW846 8270C
	ND	95.5	78.8	ug/L	82	3.6	SW846 8270C
Diethyl phthalate	ND	95.3	73.8	ug/L	77		SW846 8270C
	ND	95.5	76.1	ug/L	80	3.1	SW846 8270C
Fluorene	ND	95.3	69.6	ug/L	73		SW846 8270C
	ND	95.5	71.5	ug/L	75	2.7	SW846 8270C
4-Chlorophenyl phenyl ether	ND	95.3	69.2	ug/L	73		SW846 8270C
	ND	95.5	70.8	ug/L	74	2.3	SW846 8270C
4-Nitroaniline	ND	95.3	72.7	ug/L	76		SW846 8270C
	ND	95.5	74.2	ug/L	78	2.0	SW846 8270C
4,6-Dinitro-2-methylphenol	ND	95.3	77.3	ug/L	81		SW846 8270C
	ND	95.5	81.6	ug/L	85	5.5	SW846 8270C
Diphenylamine+N-Nitrosodi	ND	95.3	92.2	ug/L	97		SW846 8270C
	ND	95.5	95.2	ug/L	100	3.2	SW846 8270C
4-Bromophenyl phenyl ether	ND	95.3	72.2	ug/L	76		SW846 8270C
	ND	95.5	75.5	ug/L	79	4.4	SW846 8270C
Hexachlorobenzene	ND	95.3	71.2	ug/L	75		SW846 8270C
	ND	95.5	74.9	ug/L	78	5.1	SW846 8270C
Pentachlorophenol	ND	95.3	70.2	ug/L	74		SW846 8270C
	ND	95.5	75.3	ug/L	79	7.0	SW846 8270C
Phenanthrene	ND	95.3	72.2	ug/L	76		SW846 8270C
	ND	95.5	74.4	ug/L	78	3.0	SW846 8270C
Anthracene	ND	95.3	72.4	ug/L	76		SW846 8270C
	ND	95.5	74.4	ug/L	78	2.6	SW846 8270C
Carbazole	ND	95.3	75.7	ug/L	79		SW846 8270C
	ND	95.5	78.3	ug/L	82	3.3	SW846 8270C
Fluoranthene	ND	95.3	75.4	ug/L	79		SW846 8270C
	ND	95.5	78.4	ug/L	82	4.0	SW846 8270C

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: SL1271 **Work Order #...:** MTQMQ1AJ-MS **Matrix.....:** WATER
MS Lot-Sample #: F2E230451-002 MTQMQ1AK-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Pyrene	ND	95.3	77.8	ug/L	82		SW846 8270C
	ND	95.5	79.6	ug/L	83	2.2	SW846 8270C
Butyl benzyl phthalate	ND	95.3	79.6	ug/L	84		SW846 8270C
	ND	95.5	82.0	ug/L	86	2.9	SW846 8270C
Benzo(a)anthracene	ND	95.3	85.3	ug/L	90		SW846 8270C
	ND	95.5	87.9	ug/L	92	3.0	SW846 8270C
3,3'-Dichlorobenzidine	ND	95.3	58.3	ug/L	61		SW846 8270C
	ND	95.5	60.7	ug/L	64	4.1	SW846 8270C
Chrysene	ND	95.3	75.9	ug/L	80		SW846 8270C
	ND	95.5	78.5	ug/L	82	3.4	SW846 8270C
bis(2-Ethylhexyl) phthalate	ND	95.3	81.0	ug/L	85		SW846 8270C
	ND	95.5	83.2	ug/L	87	2.7	SW846 8270C
Di-n-butyl phthalate	ND	95.3	76.8	ug/L	81		SW846 8270C
	ND	95.5	79.9	ug/L	84	3.8	SW846 8270C
Di-n-octyl phthalate	ND	95.3	79.2	ug/L	83		SW846 8270C
	ND	95.5	82.1	ug/L	86	3.6	SW846 8270C
Benzo(b)fluoranthene	ND	95.3	78.2	ug/L	82		SW846 8270C
	ND	95.5	79.1	ug/L	83	1.2	SW846 8270C
Benzo(k)fluoranthene	ND	95.3	80.2	ug/L	84		SW846 8270C
	ND	95.5	84.2	ug/L	88	4.9	SW846 8270C
Benzo(a)pyrene	ND	95.3	75.1	ug/L	79		SW846 8270C
	ND	95.5	75.8	ug/L	79	0.95	SW846 8270C
Indeno(1,2,3-cd)pyrene	ND	95.3	80.9	ug/L	85		SW846 8270C
	ND	95.5	85.1	ug/L	89	5.0	SW846 8270C
Benzo(ghi)perylene	ND	95.3	82.6	ug/L	87		SW846 8270C
	ND	95.5	85.8	ug/L	90	3.8	SW846 8270C
Dibenz(a,h)anthracene	ND	95.3	79.3	ug/L	83		SW846 8270C
	ND	95.5	82.3	ug/L	86	3.8	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	43	(19 - 86)
	45	(19 - 86)
Phenol-d5	28	(10 - 71)
	29	(10 - 71)
Nitrobenzene-d5	74	(44 - 100)
	77	(44 - 100)
2-Fluorobiphenyl	70	(44 - 99)
	73	(44 - 99)

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: SL1271 **Work Order #...:** MTQMQ1AJ-MS **Matrix.....:** WATER
MS Lot-Sample #: F2E230451-002 MTQMQ1AK-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2,4,6-Tribromophenol	75	(43 - 115)
	79	(43 - 115)
Terphenyl-d14	91	(45 - 131)
	93	(45 - 131)

NOTE(S):

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

Bold print denotes control parameters

PAHs

CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2KWK4

HPLC

Lot-Sample #...: F2E230451-001 **Work Order #...:** MTQMP1AD **Matrix.....:** WATER
Date Sampled...: 05/21/12 **Date Received..:** 05/23/12
Prep Date.....: 05/24/12 **Analysis Date..:** 06/01/12
Prep Batch #...: 2145124
Dilution Factor: 1 **Method.....:** SW846 8310

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	5.0	ug/L	0.65
Acenaphthylene	ND	5.0	ug/L	0.44
Anthracene	ND	1.0	ug/L	0.020
Benzo(a)anthracene	ND	1.0	ug/L	0.063
Benzo(b)fluoranthene	ND	1.0	ug/L	0.051
Benzo(k)fluoranthene	ND	1.0	ug/L	0.074
Benzo(ghi)perylene	ND	1.0	ug/L	0.16
Benzo(a)pyrene	ND	1.0	ug/L	0.075
Chrysene	ND	1.0	ug/L	0.035
Dibenz(a,h)anthracene	ND	1.0	ug/L	0.15
Fluoranthene	ND	1.0	ug/L	0.18
Fluorene	ND	1.0	ug/L	0.071
Indeno(1,2,3-cd)pyrene	ND	1.0	ug/L	0.14
Naphthalene	ND	5.0	ug/L	0.34
Phenanthrene	ND	1.0	ug/L	0.30
Pyrene	ND	1.0	ug/L	0.083

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
p-Terphenyl	86	(60 - 98)

CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2KWK3

HPLC

Lot-Sample #...: F2E230451-002 **Work Order #...:** MTQMQ1AD **Matrix.....:** WATER
Date Sampled...: 05/21/12 **Date Received..:** 05/23/12
Prep Date.....: 05/24/12 **Analysis Date..:** 06/01/12
Prep Batch #...: 2145124
Dilution Factor: 1 **Method.....:** SW846 8310

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	5.0	ug/L	0.65
Acenaphthylene	ND	5.0	ug/L	0.44
Anthracene	ND	1.0	ug/L	0.020
Benzo(a)anthracene	ND	1.0	ug/L	0.063
Benzo(b)fluoranthene	ND	1.0	ug/L	0.051
Benzo(k)fluoranthene	ND	1.0	ug/L	0.074
Benzo(ghi)perylene	ND	1.0	ug/L	0.16
Benzo(a)pyrene	ND	1.0	ug/L	0.075
Chrysene	ND	1.0	ug/L	0.035
Dibenz(a,h)anthracene	ND	1.0	ug/L	0.15
Fluoranthene	ND	1.0	ug/L	0.18
Fluorene	ND	1.0	ug/L	0.071
Indeno(1,2,3-cd)pyrene	ND	1.0	ug/L	0.14
Naphthalene	ND	5.0	ug/L	0.34
Phenanthrene	ND	1.0	ug/L	0.30
Pyrene	ND	1.0	ug/L	0.083

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
p-Terphenyl	90	(60 - 98)

CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2KFP0

HPLC

Lot-Sample #...: F2E230452-001 **Work Order #...:** MTQMT1AC **Matrix.....:** WATER
Date Sampled...: 05/17/12 **Date Received..:** 05/23/12
Prep Date.....: 05/24/12 **Analysis Date..:** 06/01/12
Prep Batch #...: 2145124
Dilution Factor: 1 **Method.....:** SW846 8310

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	5.0	ug/L	0.65
Acenaphthylene	ND	5.0	ug/L	0.44
Anthracene	ND	1.0	ug/L	0.020
Benzo(a)anthracene	ND	1.0	ug/L	0.063
Benzo(b)fluoranthene	ND	1.0	ug/L	0.051
Benzo(k)fluoranthene	ND	1.0	ug/L	0.074
Benzo(ghi)perylene	ND	1.0	ug/L	0.16
Benzo(a)pyrene	ND	1.0	ug/L	0.075
Chrysene	ND	1.0	ug/L	0.035
Dibenz(a,h)anthracene	ND	1.0	ug/L	0.15
Fluoranthene	ND	1.0	ug/L	0.18
Fluorene	ND	1.0	ug/L	0.071
Indeno(1,2,3-cd)pyrene	ND	1.0	ug/L	0.14
Naphthalene	ND	5.0	ug/L	0.34
Phenanthrene	ND	1.0	ug/L	0.30
Pyrene	ND	1.0	ug/L	0.083

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
p-Terphenyl	87	(60 - 98)

METHOD BLANK REPORT

HPLC

Client Lot #...: SL1271 **Work Order #...:** MTRLP1AA **Matrix.....:** WATER
MB Lot-Sample #: F2E240000-124

Prep Date.....: 05/24/12
Analysis Date..: 06/01/12 **Prep Batch #...:** 2145124
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acenaphthene	ND	5.0	ug/L	SW846 8310
Acenaphthylene	ND	5.0	ug/L	SW846 8310
Anthracene	ND	1.0	ug/L	SW846 8310
Benzo(a)anthracene	ND	1.0	ug/L	SW846 8310
Benzo(b)fluoranthene	ND	1.0	ug/L	SW846 8310
Benzo(k)fluoranthene	ND	1.0	ug/L	SW846 8310
Benzo(ghi)perylene	ND	1.0	ug/L	SW846 8310
Benzo(a)pyrene	ND	1.0	ug/L	SW846 8310
Chrysene	ND	1.0	ug/L	SW846 8310
Dibenz(a,h)anthracene	ND	1.0	ug/L	SW846 8310
Fluoranthene	ND	1.0	ug/L	SW846 8310
Fluorene	ND	1.0	ug/L	SW846 8310
Indeno(1,2,3-cd)pyrene	ND	1.0	ug/L	SW846 8310
Naphthalene	ND	5.0	ug/L	SW846 8310
Phenanthrene	ND	1.0	ug/L	SW846 8310
Pyrene	ND	1.0	ug/L	SW846 8310

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
p-Terphenyl	85	(60 - 98)

NOTE(S):

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

LABORATORY CONTROL SAMPLE DATA REPORT

HPLC

Client Lot #...: SL1271 **Work Order #...:** MTRLP1AC **Matrix.....:** WATER
LCS Lot-Sample#: F2E240000-124
Prep Date.....: 05/24/12 **Analysis Date..:** 06/01/12
Prep Batch #...: 2145124
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Acenaphthene	20.0	15.5	ug/L	77	SW846 8310
Acenaphthylene	40.0	31.0	ug/L	78	SW846 8310
Anthracene	2.00	1.64	ug/L	82	SW846 8310
Benzo(a)anthracene	2.00	1.73	ug/L	86	SW846 8310
Benzo(b)fluoranthene	4.00	3.38	ug/L	84	SW846 8310
Benzo(k)fluoranthene	2.00	1.69	ug/L	84	SW846 8310
Benzo(ghi)perylene	4.00	3.38	ug/L	85	SW846 8310
Benzo(a)pyrene	2.00	1.65	ug/L	82	SW846 8310
Chrysene	2.00	1.68	ug/L	84	SW846 8310
Dibenz(a,h)anthracene	4.00	3.15	ug/L	79	SW846 8310
Fluoranthene	4.00	3.38	ug/L	85	SW846 8310
Fluorene	4.00	3.17	ug/L	79	SW846 8310
Indeno(1,2,3-cd)pyrene	2.00	1.71	ug/L	85	SW846 8310
Naphthalene	20.0	15.0	ug/L	75	SW846 8310
Phenanthrene	2.00	1.63	ug/L	82	SW846 8310
Pyrene	2.00	1.67	ug/L	83	SW846 8310

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
p-Terphenyl	89	(56 - 108)

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

HPLC

Client Lot #...: SL1271 **Work Order #...:** MTQMQ1AG-MS **Matrix.....:** WATER
MS Lot-Sample #: F2E230451-002 MTQMQ1AH-MSD
Date Sampled...: 05/21/12 **Date Received..:** 05/23/12
Prep Date.....: 05/24/12 **Analysis Date..:** 06/01/12
Prep Batch #...: 2145124
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Acenaphthene	ND	19.0	14.5	ug/L	76		SW846 8310
	ND	19.1	14.4	ug/L	76	0.55	SW846 8310
Acenaphthylene	ND	38.0	28.9	ug/L	76		SW846 8310
	ND	38.2	28.9	ug/L	76	0.03	SW846 8310
Anthracene	ND	1.90	1.53	ug/L	80		SW846 8310
	ND	1.91	1.52	ug/L	80	0.26	SW846 8310
Benzo(a)anthracene	ND	1.90	1.59	ug/L	84		SW846 8310
	ND	1.91	1.59	ug/L	83	0.12	SW846 8310
Benzo(b)fluoranthene	ND	3.80	3.17	ug/L	83		SW846 8310
	ND	3.82	3.20	ug/L	84	1.1	SW846 8310
Benzo(k)fluoranthene	ND	1.90	1.58	ug/L	83		SW846 8310
	ND	1.91	1.57	ug/L	82	0.12	SW846 8310
Benzo(ghi)perylene	ND	3.80	3.13	ug/L	83		SW846 8310
	ND	3.82	3.15	ug/L	83	0.57	SW846 8310
Benzo(a)pyrene	ND	1.90	1.58	ug/L	83		SW846 8310
	ND	1.91	1.55	ug/L	81	1.9	SW846 8310
Chrysene	ND	1.90	1.54	ug/L	81		SW846 8310
	ND	1.91	1.55	ug/L	81	0.51	SW846 8310
Dibenz(a,h)anthracene	ND	3.80	2.94	ug/L	77		SW846 8310
	ND	3.82	2.99	ug/L	78	1.8	SW846 8310
Fluoranthene	ND	3.80	3.12	ug/L	82		SW846 8310
	ND	3.82	3.15	ug/L	83	1.1	SW846 8310
Fluorene	ND	3.80	2.93	ug/L	77		SW846 8310
	ND	3.82	2.90	ug/L	76	1.0	SW846 8310
Indeno(1,2,3-cd)pyrene	ND	1.90	1.56	ug/L	82		SW846 8310
	ND	1.91	1.59	ug/L	83	1.7	SW846 8310
Naphthalene	ND	19.0	14.4	ug/L	76		SW846 8310
	ND	19.1	14.3	ug/L	75	0.13	SW846 8310
Phenanthrene	ND	1.90	1.49	ug/L	78		SW846 8310
	ND	1.91	1.49	ug/L	78	0.20	SW846 8310
Pyrene	ND	1.90	1.54	ug/L	81		SW846 8310
	ND	1.91	1.55	ug/L	81	0.64	SW846 8310

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
p-Terphenyl	86	(60 - 98)
	86	(60 - 98)

NOTE(S):

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

Bold print denotes control parameters

PESTICIDES

CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2KWK4

GC Semivolatiles

Lot-Sample #...: F2E230451-001 **Work Order #...:** MTQMP1AC **Matrix.....:** WATER
Date Sampled...: 05/21/12 **Date Received..:** 05/23/12
Prep Date.....: 05/25/12 **Analysis Date..:** 06/01/12
Prep Batch #...: 2146101
Dilution Factor: 1 **Method.....:** SW846 8081A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aldrin	ND	0.050	ug/L	0.010
alpha-BHC	ND	0.050	ug/L	0.010
beta-BHC	ND	0.050	ug/L	0.013
delta-BHC	ND	0.050	ug/L	0.010
gamma-BHC (Lindane)	ND	0.050	ug/L	0.010
Chlordane (technical)	ND	0.50	ug/L	0.23
4,4'-DDD	ND	0.050	ug/L	0.010
4,4'-DDE	ND	0.050	ug/L	0.010
4,4'-DDT	ND	0.050	ug/L	0.010
Dieldrin	ND	0.050	ug/L	0.010
Endosulfan I	ND N	0.050	ug/L	0.010
Endosulfan II	ND	0.050	ug/L	0.010
Endosulfan sulfate	ND	0.050	ug/L	0.010
Endrin	ND	0.050	ug/L	0.017
Endrin aldehyde	ND	0.050	ug/L	0.010
Heptachlor	ND	0.050	ug/L	0.010
Heptachlor epoxide	ND	0.050	ug/L	0.017
Methoxychlor	ND	0.10	ug/L	0.010
Toxaphene	ND	2.0	ug/L	0.66

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	85	(56 - 136)
Decachlorobiphenyl	73 *	(74 - 127)

NOTE(S):

* Surrogate recovery is outside stated control limits.

N Spiked analyte recovery is outside stated control limits.

CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2KWK3

GC Semivolatiles

Lot-Sample #...: F2E230451-002 **Work Order #...:** MTQMQ1AC **Matrix.....:** WATER
Date Sampled...: 05/21/12 **Date Received..:** 05/23/12
Prep Date.....: 05/25/12 **Analysis Date..:** 06/01/12
Prep Batch #...: 2146101
Dilution Factor: 1 **Method.....:** SW846 8081A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aldrin	ND	0.050	ug/L	0.010
alpha-BHC	ND	0.050	ug/L	0.010
beta-BHC	ND	0.050	ug/L	0.013
delta-BHC	ND	0.050	ug/L	0.010
gamma-BHC (Lindane)	ND	0.050	ug/L	0.010
Chlordane (technical)	ND	0.50	ug/L	0.23
4,4'-DDD	ND	0.050	ug/L	0.010
4,4'-DDE	ND	0.050	ug/L	0.010
4,4'-DDT	ND	0.050	ug/L	0.010
Dieldrin	ND	0.050	ug/L	0.010
Endosulfan I	ND N	0.050	ug/L	0.010
Endosulfan II	ND	0.050	ug/L	0.010
Endosulfan sulfate	ND	0.050	ug/L	0.010
Endrin	ND	0.050	ug/L	0.017
Endrin aldehyde	ND	0.050	ug/L	0.010
Heptachlor	ND	0.050	ug/L	0.010
Heptachlor epoxide	ND	0.050	ug/L	0.017
Methoxychlor	ND	0.10	ug/L	0.010
Toxaphene	ND	2.0	ug/L	0.66

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	89	(56 - 136)
Decachlorobiphenyl	90	(74 - 127)

NOTE(S):

N Spiked analyte recovery is outside stated control limits.

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: SL1271 **Work Order #...:** MTR8K1AA **Matrix.....:** WATER
MB Lot-Sample #: F2E250000-101

Prep Date.....: 05/25/12
Analysis Date..: 06/01/12 **Prep Batch #...:** 2146101
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Aldrin	ND	0.050	ug/L	SW846 8081A
alpha-BHC	ND	0.050	ug/L	SW846 8081A
beta-BHC	ND	0.050	ug/L	SW846 8081A
delta-BHC	ND	0.050	ug/L	SW846 8081A
gamma-BHC (Lindane)	ND	0.050	ug/L	SW846 8081A
Chlordane (technical)	ND	0.50	ug/L	SW846 8081A
4,4'-DDD	ND	0.050	ug/L	SW846 8081A
4,4'-DDE	ND	0.050	ug/L	SW846 8081A
4,4'-DDT	ND	0.050	ug/L	SW846 8081A
Dieldrin	ND	0.050	ug/L	SW846 8081A
Endosulfan I	ND	0.050	ug/L	SW846 8081A
Endosulfan II	ND	0.050	ug/L	SW846 8081A
Endosulfan sulfate	ND	0.050	ug/L	SW846 8081A
Endrin	ND	0.050	ug/L	SW846 8081A
Endrin aldehyde	ND	0.050	ug/L	SW846 8081A
Heptachlor	ND	0.050	ug/L	SW846 8081A
Heptachlor epoxide	ND	0.050	ug/L	SW846 8081A
Methoxychlor	ND	0.10	ug/L	SW846 8081A
Toxaphene	ND	2.0	ug/L	SW846 8081A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	79	(56 - 136)
Decachlorobiphenyl	86	(74 - 127)

NOTE(S):

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

LABORATORY CONTROL SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: SL1271 **Work Order #...:** MTR8K1AC **Matrix.....:** WATER
LCS Lot-Sample#: F2E250000-101
Prep Date.....: 05/25/12 **Analysis Date..:** 06/01/12
Prep Batch #...: 2146101
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Aldrin	**0.500**	**0.483**	**ug/L**	**97**	**SW846 8081A**
alpha-BHC	**0.500**	**0.505**	**ug/L**	**101**	**SW846 8081A**
beta-BHC	**0.500**	**0.480**	**ug/L**	**96**	**SW846 8081A**
delta-BHC	**0.500**	**0.582**	**ug/L**	**116**	**SW846 8081A**
gamma-BHC (Lindane)	**0.500**	**0.502**	**ug/L**	**100**	**SW846 8081A**
4,4'-DDD	**0.500**	**0.531**	**ug/L**	**106**	**SW846 8081A**
4,4'-DDE	**0.500**	**0.506**	**ug/L**	**101**	**SW846 8081A**
4,4'-DDT	**0.500**	**0.535**	**ug/L**	**107**	**SW846 8081A**
Dieldrin	**0.500**	**0.484**	**ug/L**	**97**	**SW846 8081A**
Endosulfan I	**0.500**	**0.332**	**ug/L**	**66**	**SW846 8081A**
Endosulfan II	**0.500**	**0.369**	**ug/L**	**74**	**SW846 8081A**
Endosulfan sulfate	**0.500**	**0.484**	**ug/L**	**97**	**SW846 8081A**
Endrin	**0.500**	**0.511**	**ug/L**	**102**	**SW846 8081A**
Endrin aldehyde	**0.500**	**0.493**	**ug/L**	**99**	**SW846 8081A**
Heptachlor	**0.500**	**0.574**	**ug/L**	**115**	**SW846 8081A**
Heptachlor epoxide	**0.500**	**0.484**	**ug/L**	**97**	**SW846 8081A**
Methoxychlor	**0.500**	**0.569**	**ug/L**	**114**	**SW846 8081A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	93	(66 - 127)
Decachlorobiphenyl	84	(76 - 120)

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 #...: SL1271 **Work Order #...:** MTQMP1AG-MS **Matrix.....:** WATER
MS Lot-Sample #: F2E230451-001 MTQMP1AH-MSD
Date Sampled...: 05/21/12 **Date Received..:** 05/23/12
Prep Date.....: 05/25/12 **Analysis Date..:** 06/01/12
Prep Batch #...: 2146101
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY		RPD	METHOD
Aldrin	ND	0.473	0.413	ug/L	87			SW846 8081A
	ND	0.475	0.416	ug/L	88		0.72	SW846 8081A
alpha-BHC	ND	0.473	0.437	ug/L	92			SW846 8081A
	ND	0.475	0.431	ug/L	91		1.4	SW846 8081A
beta-BHC	ND	0.473	0.426	ug/L	90			SW846 8081A
	ND	0.475	0.412	ug/L	87		3.3	SW846 8081A
delta-BHC	ND	0.473	0.454	ug/L	96			SW846 8081A
	ND	0.475	0.449	ug/L	95		1.1	SW846 8081A
gamma-BHC (Lindane)	ND	0.473	0.431	ug/L	91			SW846 8081A
	ND	0.475	0.423	ug/L	89		1.9	SW846 8081A
4,4'-DDD	ND	0.473	0.475	ug/L	100			SW846 8081A
	ND	0.475	0.463	ug/L	97		2.6	SW846 8081A
4,4'-DDE	ND	0.473	0.445	ug/L	94			SW846 8081A
	ND	0.475	0.434	ug/L	91		2.5	SW846 8081A
4,4'-DDT	ND	0.473	0.480	ug/L	101			SW846 8081A
	ND	0.475	0.463	ug/L	97		3.6	SW846 8081A
Dieldrin	ND	0.473	0.426	ug/L	90			SW846 8081A
	ND	0.475	0.416	ug/L	88		2.4	SW846 8081A
Endosulfan I	ND	0.473	0.309	ug/L	65			SW846 8081A
	ND	0.475	0.290	ug/L	61	N	6.3	SW846 8081A
Endosulfan II	ND	0.473	0.335	ug/L	71			SW846 8081A
	ND	0.475	0.319	ug/L	67		4.9	SW846 8081A
Endosulfan sulfate	ND	0.473	0.434	ug/L	92			SW846 8081A
	ND	0.475	0.422	ug/L	89		2.8	SW846 8081A
Endrin	ND	0.473	0.477	ug/L	101			SW846 8081A
	ND	0.475	0.460	ug/L	97		3.6	SW846 8081A
Endrin aldehyde	ND	0.473	0.436	ug/L	92			SW846 8081A
	ND	0.475	0.422	ug/L	89		3.3	SW846 8081A
Heptachlor	ND	0.473	0.437	ug/L	92			SW846 8081A
	ND	0.475	0.486	ug/L	102		11	SW846 8081A
Heptachlor epoxide	ND	0.473	0.422	ug/L	89			SW846 8081A
	ND	0.475	0.415	ug/L	87		1.7	SW846 8081A
Methoxychlor	ND	0.473	0.514	ug/L	109			SW846 8081A
	ND	0.475	0.503	ug/L	106		2.2	SW846 8081A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	84	(56 - 136)
	85	(56 - 136)

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: SL1271 **Work Order #...:** MTQMP1AG-MS **Matrix.....:** WATER
MS Lot-Sample #: F2E230451-001 MTQMP1AH-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	94	(74 - 127)
	91	(74 - 127)

NOTE(S):

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

Bold print denotes control parameters

N Spiked analyte recovery is outside stated control limits.

METALS

CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2L6K5

TOTAL Metals

Lot-Sample #...: F2E240419-001 **Matrix.....:** WATER
Date Sampled...: 05/23/12 **Date Received..:** 05/24/12

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2151097						
Antimony	5.3 B	60.0	ug/L	SW846 6010B	05/30-06/03/12	MTQ521AV
		Dilution Factor: 1		MDL.....: 4.0		
Barium	205	200	ug/L	SW846 6010B	05/30-06/03/12	MTQ521AW
		Dilution Factor: 1		MDL.....: 4.0		
Beryllium	5.2	5.0	ug/L	SW846 6010B	05/30-06/03/12	MTQ521AX
		Dilution Factor: 1		MDL.....: 0.61		
Cadmium	5.4	5.0	ug/L	SW846 6010B	05/30-06/03/12	MTQ521A0
		Dilution Factor: 1		MDL.....: 0.91		
Calcium	22500	5000	ug/L	SW846 6010B	05/30-06/03/12	MTQ521A1
		Dilution Factor: 1		MDL.....: 106		
Chromium	29.1	10.0	ug/L	SW846 6010B	05/30-06/03/12	MTQ521A2
		Dilution Factor: 1		MDL.....: 3.1		
Cobalt	28.6 B	50.0	ug/L	SW846 6010B	05/30-06/03/12	MTQ521A3
		Dilution Factor: 1		MDL.....: 4.0		
Copper	26.5	25.0	ug/L	SW846 6010B	05/30-06/03/12	MTQ521A4
		Dilution Factor: 1		MDL.....: 4.6		
Iron	213	100	ug/L	SW846 6010B	05/30-06/03/12	MTQ521A5
		Dilution Factor: 1		MDL.....: 28.2		
Magnesium	213 B	5000	ug/L	SW846 6010B	05/30-06/03/12	MTQ521A6
		Dilution Factor: 1		MDL.....: 132		
Manganese	25.8	15.0	ug/L	SW846 6010B	05/30-06/03/12	MTQ521A7
		Dilution Factor: 1		MDL.....: 3.3		
Nickel	31.0 B	40.0	ug/L	SW846 6010B	05/30-06/03/12	MTQ521A8
		Dilution Factor: 1		MDL.....: 13.3		
Potassium	5160	5000	ug/L	SW846 6010B	05/30-06/03/12	MTQ521A9
		Dilution Factor: 1		MDL.....: 1650		
Silver	ND	10.0	ug/L	SW846 6010B	05/30-06/03/12	MTQ521CA
		Dilution Factor: 1		MDL.....: 6.0		

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CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2L6K5

TOTAL Metals

Lot-Sample #...: F2E240419-001 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Sodium	21100	5000	ug/L	SW846 6010B	05/30-06/03/12	MTQ521CC
		Dilution Factor: 1		MDL.....: 324		
Strontium	210	50.0	ug/L	SW846 6010B	05/30-06/03/12	MTQ521CD
		Dilution Factor: 1		MDL.....: 0.54		
Vanadium	6.4 B	50.0	ug/L	SW846 6010B	05/30-06/03/12	MTQ521CE
		Dilution Factor: 1		MDL.....: 4.1		
Zinc	33.3 C	20.0	ug/L	SW846 6010B	05/30-06/03/12	MTQ521CF
		Dilution Factor: 1		MDL.....: 7.0		
Prep Batch #...: 2151098						
Silver	5.2	2.0	ug/L	SW846 6020	05/30-06/06/12	MTQ521AQ
		Dilution Factor: 1		MDL.....: 0.050		
Aluminum	207	30.0	ug/L	SW846 6020	05/30-06/05/12	MTQ521AC
		Dilution Factor: 1		MDL.....: 12.9		
Arsenic	5.1 B	10.0	ug/L	SW846 6020	05/30-06/05/12	MTQ521AE
		Dilution Factor: 1		MDL.....: 1.2		
Barium	197	2.0	ug/L	SW846 6020	05/30-06/05/12	MTQ521AF
		Dilution Factor: 1		MDL.....: 0.22		
Beryllium	5.0	0.50	ug/L	SW846 6020	05/30-06/05/12	MTQ521AG
		Dilution Factor: 1		MDL.....: 0.35		
Boron	34.9 B	50.0	ug/L	SW846 6020	05/30-06/05/12	MTQ521AH
		Dilution Factor: 1		MDL.....: 10.0		
Cadmium	4.8	0.50	ug/L	SW846 6020	05/30-06/05/12	MTQ521AJ
		Dilution Factor: 1		MDL.....: 0.10		
Cobalt	24.5	2.0	ug/L	SW846 6020	05/30-06/05/12	MTQ521AK
		Dilution Factor: 1		MDL.....: 0.22		
Chromium	25.6	10.0	ug/L	SW846 6020	05/30-06/05/12	MTQ521AU
		Dilution Factor: 1		MDL.....: 3.3		
Copper	24.1	1.0	ug/L	SW846 6020	05/30-06/05/12	MTQ521AL
		Dilution Factor: 1		MDL.....: 0.45		

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CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2L6K5

TOTAL Metals

Lot-Sample #...: F2E240419-001 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Molybdenum	ND	5.0	ug/L	SW846 6020	05/30-06/05/12	MTQ521AN
		Dilution Factor: 1		MDL.....: 1.0		
Lead	**5.1**	**3.0**	**ug/L**	**SW846 6020**	**05/30-06/05/12**	**MTQ521AM**
		Dilution Factor: 1		MDL.....: 0.17		
Antimony	**4.9 B**	**5.0**	**ug/L**	**SW846 6020**	**05/30-06/05/12**	**MTQ521AD**
		Dilution Factor: 1		MDL.....: 1.7		
Selenium	**5.2**	**5.0**	**ug/L**	**SW846 6020**	**05/30-06/05/12**	**MTQ521AP**
		Dilution Factor: 1		MDL.....: 1.6		
Tin	ND	2.0	ug/L	SW846 6020	05/30-06/05/12	MTQ521AT
		Dilution Factor: 1		MDL.....: 1.0		
Thallium	**5.6**	**2.0**	**ug/L**	**SW846 6020**	**05/30-06/05/12**	**MTQ521AR**
		Dilution Factor: 1		MDL.....: 0.55		

NOTE(S):

B Estimated result. Result is less than RL.

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

CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2L6K6

TOTAL Metals

Lot-Sample #...: F2E240419-002 **Matrix.....:** WATER
Date Sampled...: 05/23/12 **Date Received..:** 05/24/12

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2151097						
Antimony	**7.0 B**	**60.0**	**ug/L**	**SW846 6010B**	**05/30-06/03/12**	**MTRC61A7**
		Dilution Factor: 1		MDL.....: 4.0		
Barium	**204**	**200**	**ug/L**	**SW846 6010B**	**05/30-06/03/12**	**MTRC61A8**
		Dilution Factor: 1		MDL.....: 4.0		
Beryllium	**5.2**	**5.0**	**ug/L**	**SW846 6010B**	**05/30-06/03/12**	**MTRC61A9**
		Dilution Factor: 1		MDL.....: 0.61		
Cadmium	**5.7**	**5.0**	**ug/L**	**SW846 6010B**	**05/30-06/03/12**	**MTRC61AA**
		Dilution Factor: 1		MDL.....: 0.91		
Calcium	**22700**	**5000**	**ug/L**	**SW846 6010B**	**05/30-06/03/12**	**MTRC61AC**
		Dilution Factor: 1		MDL.....: 106		
Chromium	**29.1**	**10.0**	**ug/L**	**SW846 6010B**	**05/30-06/03/12**	**MTRC61AD**
		Dilution Factor: 1		MDL.....: 3.1		
Cobalt	**28.8 B**	**50.0**	**ug/L**	**SW846 6010B**	**05/30-06/03/12**	**MTRC61AE**
		Dilution Factor: 1		MDL.....: 4.0		
Copper	**26.3**	**25.0**	**ug/L**	**SW846 6010B**	**05/30-06/03/12**	**MTRC61AF**
		Dilution Factor: 1		MDL.....: 4.6		
Iron	**208**	**100**	**ug/L**	**SW846 6010B**	**05/30-06/03/12**	**MTRC61AG**
		Dilution Factor: 1		MDL.....: 28.2		
Magnesium	**213 B**	**5000**	**ug/L**	**SW846 6010B**	**05/30-06/03/12**	**MTRC61AH**
		Dilution Factor: 1		MDL.....: 132		
Manganese	**25.5**	**15.0**	**ug/L**	**SW846 6010B**	**05/30-06/03/12**	**MTRC61AJ**
		Dilution Factor: 1		MDL.....: 3.3		
Nickel	**31.2 B**	**40.0**	**ug/L**	**SW846 6010B**	**05/30-06/03/12**	**MTRC61AK**
		Dilution Factor: 1		MDL.....: 13.3		
Potassium	**5160**	**5000**	**ug/L**	**SW846 6010B**	**05/30-06/03/12**	**MTRC61AL**
		Dilution Factor: 1		MDL.....: 1650		
Silver	ND	10.0	ug/L	SW846 6010B	05/30-06/03/12	MTRC61CA
		Dilution Factor: 1		MDL.....: 6.0		

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CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2L6K6

TOTAL Metals

Lot-Sample #...: F2E240419-002 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Sodium	21200	5000	ug/L	SW846 6010B	05/30-06/03/12	MTRC61CC
		Dilution Factor: 1		MDL.....: 324		
Strontium	209	50.0	ug/L	SW846 6010B	05/30-06/03/12	MTRC61CD
		Dilution Factor: 1		MDL.....: 0.54		
Vanadium	6.0 B	50.0	ug/L	SW846 6010B	05/30-06/03/12	MTRC61CE
		Dilution Factor: 1		MDL.....: 4.1		
Zinc	34.8 C	20.0	ug/L	SW846 6010B	05/30-06/03/12	MTRC61CF
		Dilution Factor: 1		MDL.....: 7.0		
Prep Batch #...: 2151098						
Silver	5.2	2.0	ug/L	SW846 6020	05/30-06/06/12	MTRC61A3
		Dilution Factor: 1		MDL.....: 0.050		
Aluminum	207	30.0	ug/L	SW846 6020	05/30-06/05/12	MTRC61AN
		Dilution Factor: 1		MDL.....: 12.9		
Arsenic	5.8 B	10.0	ug/L	SW846 6020	05/30-06/05/12	MTRC61AQ
		Dilution Factor: 1		MDL.....: 1.2		
Barium	199	2.0	ug/L	SW846 6020	05/30-06/05/12	MTRC61AR
		Dilution Factor: 1		MDL.....: 0.22		
Beryllium	4.9	0.50	ug/L	SW846 6020	05/30-06/05/12	MTRC61AT
		Dilution Factor: 1		MDL.....: 0.35		
Boron	38.3 B	50.0	ug/L	SW846 6020	05/30-06/05/12	MTRC61AU
		Dilution Factor: 1		MDL.....: 10.0		
Cadmium	4.9	0.50	ug/L	SW846 6020	05/30-06/05/12	MTRC61AV
		Dilution Factor: 1		MDL.....: 0.10		
Cobalt	24.7	2.0	ug/L	SW846 6020	05/30-06/05/12	MTRC61AW
		Dilution Factor: 1		MDL.....: 0.22		
Chromium	25.8	10.0	ug/L	SW846 6020	05/30-06/05/12	MTRC61A6
		Dilution Factor: 1		MDL.....: 3.3		
Copper	24.2	1.0	ug/L	SW846 6020	05/30-06/05/12	MTRC61AX
		Dilution Factor: 1		MDL.....: 0.45		

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CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2L6K6

TOTAL Metals

Lot-Sample #...: F2E240419-002 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Molybdenum	ND	5.0	ug/L	SW846 6020	05/30-06/05/12	MTRC61A1
		Dilution Factor: 1		MDL.....: 1.0		
Lead	5.2	3.0	ug/L	SW846 6020	05/30-06/05/12	MTRC61A0
		Dilution Factor: 1		MDL.....: 0.17		
Antimony	4.8 B	5.0	ug/L	SW846 6020	05/30-06/05/12	MTRC61AP
		Dilution Factor: 1		MDL.....: 1.7		
Selenium	4.1 B	5.0	ug/L	SW846 6020	05/30-06/05/12	MTRC61A2
		Dilution Factor: 1		MDL.....: 1.6		
Tin	1.0 B	2.0	ug/L	SW846 6020	05/30-06/05/12	MTRC61A5
		Dilution Factor: 1		MDL.....: 1.0		
Thallium	5.8	2.0	ug/L	SW846 6020	05/30-06/05/12	MTRC61A4
		Dilution Factor: 1		MDL.....: 0.55		

NOTE(S):

B Estimated result. Result is less than RL.

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

CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2L6K7

TOTAL Metals

Lot-Sample #...: F2E240419-003 **Matrix.....:** WATER
Date Sampled...: 05/23/12 **Date Received..:** 05/24/12

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2151097						
Antimony	7.1 B	60.0	ug/L	SW846 6010B	05/30-06/03/12	MTRC71A7
		Dilution Factor: 1		MDL.....: 4.0		
Barium	204	200	ug/L	SW846 6010B	05/30-06/03/12	MTRC71A8
		Dilution Factor: 1		MDL.....: 4.0		
Beryllium	5.2	5.0	ug/L	SW846 6010B	05/30-06/03/12	MTRC71A9
		Dilution Factor: 1		MDL.....: 0.61		
Cadmium	5.3	5.0	ug/L	SW846 6010B	05/30-06/03/12	MTRC71AA
		Dilution Factor: 1		MDL.....: 0.91		
Calcium	21900	5000	ug/L	SW846 6010B	05/30-06/03/12	MTRC71AC
		Dilution Factor: 1		MDL.....: 106		
Chromium	27.6	10.0	ug/L	SW846 6010B	05/30-06/03/12	MTRC71AD
		Dilution Factor: 1		MDL.....: 3.1		
Cobalt	27.5 B	50.0	ug/L	SW846 6010B	05/30-06/03/12	MTRC71AE
		Dilution Factor: 1		MDL.....: 4.0		
Copper	24.5 B	25.0	ug/L	SW846 6010B	05/30-06/03/12	MTRC71AF
		Dilution Factor: 1		MDL.....: 4.6		
Iron	212	100	ug/L	SW846 6010B	05/30-06/03/12	MTRC71AG
		Dilution Factor: 1		MDL.....: 28.2		
Magnesium	211 B	5000	ug/L	SW846 6010B	05/30-06/03/12	MTRC71AH
		Dilution Factor: 1		MDL.....: 132		
Manganese	25.4	15.0	ug/L	SW846 6010B	05/30-06/03/12	MTRC71AJ
		Dilution Factor: 1		MDL.....: 3.3		
Nickel	30.5 B	40.0	ug/L	SW846 6010B	05/30-06/03/12	MTRC71AK
		Dilution Factor: 1		MDL.....: 13.3		
Potassium	5110	5000	ug/L	SW846 6010B	05/30-06/03/12	MTRC71AL
		Dilution Factor: 1		MDL.....: 1650		
Silver	ND	10.0	ug/L	SW846 6010B	05/30-06/03/12	MTRC71CA
		Dilution Factor: 1		MDL.....: 6.0		

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CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2L6K7

TOTAL Metals

Lot-Sample #...: F2E240419-003 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Sodium	21000	5000	ug/L	SW846 6010B	05/30-06/03/12	MTRC71CC
		Dilution Factor: 1		MDL.....: 324		
Strontium	207	50.0	ug/L	SW846 6010B	05/30-06/03/12	MTRC71CD
		Dilution Factor: 1		MDL.....: 0.54		
Vanadium	6.1 B	50.0	ug/L	SW846 6010B	05/30-06/03/12	MTRC71CE
		Dilution Factor: 1		MDL.....: 4.1		
Zinc	34.1 C	20.0	ug/L	SW846 6010B	05/30-06/03/12	MTRC71CF
		Dilution Factor: 1		MDL.....: 7.0		
Prep Batch #...: 2151098						
Silver	5.1	2.0	ug/L	SW846 6020	05/30-06/06/12	MTRC71A3
		Dilution Factor: 1		MDL.....: 0.050		
Aluminum	210	30.0	ug/L	SW846 6020	05/30-06/05/12	MTRC71AN
		Dilution Factor: 1		MDL.....: 12.9		
Arsenic	4.5 B	10.0	ug/L	SW846 6020	05/30-06/05/12	MTRC71AQ
		Dilution Factor: 1		MDL.....: 1.2		
Barium	197	2.0	ug/L	SW846 6020	05/30-06/05/12	MTRC71AR
		Dilution Factor: 1		MDL.....: 0.22		
Beryllium	4.8	0.50	ug/L	SW846 6020	05/30-06/05/12	MTRC71AT
		Dilution Factor: 1		MDL.....: 0.35		
Boron	33.1 B	50.0	ug/L	SW846 6020	05/30-06/05/12	MTRC71AU
		Dilution Factor: 1		MDL.....: 10.0		
Cadmium	4.8	0.50	ug/L	SW846 6020	05/30-06/05/12	MTRC71AV
		Dilution Factor: 1		MDL.....: 0.10		
Cobalt	24.6	2.0	ug/L	SW846 6020	05/30-06/05/12	MTRC71AW
		Dilution Factor: 1		MDL.....: 0.22		
Chromium	25.2	10.0	ug/L	SW846 6020	05/30-06/05/12	MTRC71A6
		Dilution Factor: 1		MDL.....: 3.3		
Copper	24.2	1.0	ug/L	SW846 6020	05/30-06/05/12	MTRC71AX
		Dilution Factor: 1		MDL.....: 0.45		

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CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2L6K7

TOTAL Metals

Lot-Sample #...: F2E240419-003 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Molybdenum	ND	5.0	ug/L	SW846 6020	05/30-06/05/12	MTRC71A1
		Dilution Factor: 1		MDL.....: 1.0		
Lead	**5.0**	**3.0**	**ug/L**	**SW846 6020**	**05/30-06/05/12**	**MTRC71A0**
		Dilution Factor: 1		MDL.....: 0.17		
Antimony	**4.8 B**	**5.0**	**ug/L**	**SW846 6020**	**05/30-06/05/12**	**MTRC71AP**
		Dilution Factor: 1		MDL.....: 1.7		
Selenium	**3.1 B**	**5.0**	**ug/L**	**SW846 6020**	**05/30-06/05/12**	**MTRC71A2**
		Dilution Factor: 1		MDL.....: 1.6		
Tin	ND	2.0	ug/L	SW846 6020	05/30-06/05/12	MTRC71A5
		Dilution Factor: 1		MDL.....: 1.0		
Thallium	**5.4**	**2.0**	**ug/L**	**SW846 6020**	**05/30-06/05/12**	**MTRC71A4**
		Dilution Factor: 1		MDL.....: 0.55		

NOTE(S):

B Estimated result. Result is less than RL.

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

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: SL1271 **Matrix.....:** WATER

MB Lot-Sample #: F2E300000-097 **Prep Batch #...:** 2151097

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Antimony	ND	60.0	ug/L	SW846 6010B	05/30-06/03/12	MTV101AA
		Dilution Factor: 1				
Barium	ND	200	ug/L	SW846 6010B	05/30-06/03/12	MTV101AC
		Dilution Factor: 1				
Beryllium	ND	5.0	ug/L	SW846 6010B	05/30-06/03/12	MTV101AD
		Dilution Factor: 1				
Cadmium	ND	5.0	ug/L	SW846 6010B	05/30-06/03/12	MTV101AE
		Dilution Factor: 1				
Calcium	ND	5000	ug/L	SW846 6010B	05/30-06/03/12	MTV101AF
		Dilution Factor: 1				
Chromium	ND	10.0	ug/L	SW846 6010B	05/30-06/03/12	MTV101AG
		Dilution Factor: 1				
Cobalt	ND	50.0	ug/L	SW846 6010B	05/30-06/03/12	MTV101AH
		Dilution Factor: 1				
Copper	ND	25.0	ug/L	SW846 6010B	05/30-06/03/12	MTV101AJ
		Dilution Factor: 1				
Iron	ND	100	ug/L	SW846 6010B	05/30-06/03/12	MTV101AK
		Dilution Factor: 1				
Magnesium	ND	5000	ug/L	SW846 6010B	05/30-06/03/12	MTV101AL
		Dilution Factor: 1				
Manganese	ND	15.0	ug/L	SW846 6010B	05/30-06/03/12	MTV101AM
		Dilution Factor: 1				
Nickel	ND	40.0	ug/L	SW846 6010B	05/30-06/03/12	MTV101AN
		Dilution Factor: 1				
Potassium	ND	5000	ug/L	SW846 6010B	05/30-06/03/12	MTV101AP
		Dilution Factor: 1				
Silver	ND	10.0	ug/L	SW846 6010B	05/30-06/03/12	MTV101AQ
		Dilution Factor: 1				
Sodium	**326 B**	**5000**	**ug/L**	**SW846 6010B**	**05/30-06/03/12**	**MTV101AR**
		Dilution Factor: 1				

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METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: SL1271 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Strontium	ND	50.0	ug/L	SW846 6010B	05/30-06/03/12	MTV101AT
		Dilution Factor: 1				
Vanadium	ND	50.0	ug/L	SW846 6010B	05/30-06/03/12	MTV101AU
		Dilution Factor: 1				
Zinc	**8.2 B**	**20.0**	**ug/L**	**SW846 6010B**	**05/30-06/03/12**	**MTV101AV**
		Dilution Factor: 1				

MB Lot-Sample #: F2E300000-098 **Prep Batch #...:** 2151098

Aluminum	ND	30.0	ug/L	SW846 6020	05/30-06/05/12	MTV241AA
		Dilution Factor: 1				
Antimony	ND	5.0	ug/L	SW846 6020	05/30-06/05/12	MTV241AC
		Dilution Factor: 1				
Arsenic	ND	10.0	ug/L	SW846 6020	05/30-06/05/12	MTV241AD
		Dilution Factor: 1				
Barium	ND	2.0	ug/L	SW846 6020	05/30-06/05/12	MTV241AE
		Dilution Factor: 1				
Beryllium	ND	0.50	ug/L	SW846 6020	05/30-06/05/12	MTV241AF
		Dilution Factor: 1				
Boron	ND	50.0	ug/L	SW846 6020	05/30-06/05/12	MTV241AG
		Dilution Factor: 1				
Cadmium	ND	0.50	ug/L	SW846 6020	05/30-06/05/12	MTV241AH
		Dilution Factor: 1				
Chromium	ND	10.0	ug/L	SW846 6020	05/30-06/05/12	MTV241AT
		Dilution Factor: 1				
Cobalt	ND	2.0	ug/L	SW846 6020	05/30-06/05/12	MTV241AJ
		Dilution Factor: 1				
Copper	ND	1.0	ug/L	SW846 6020	05/30-06/05/12	MTV241AK
		Dilution Factor: 1				
Lead	ND	3.0	ug/L	SW846 6020	05/30-06/05/12	MTV241AL
		Dilution Factor: 1				
Molybdenum	ND	5.0	ug/L	SW846 6020	05/30-06/05/12	MTV241AM
		Dilution Factor: 1				

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METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: SL1271 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Selenium	ND	5.0	ug/L	SW846 6020	05/30-06/05/12	MTV241AN
		Dilution Factor: 1				
Silver	ND	2.0	ug/L	SW846 6020	05/30-06/06/12	MTV241AP
		Dilution Factor: 1				
Thallium	ND	2.0	ug/L	SW846 6020	05/30-06/05/12	MTV241AQ
		Dilution Factor: 1				
Tin	ND	2.0	ug/L	SW846 6020	05/30-06/05/12	MTV241AR
		Dilution Factor: 1				

NOTE(S):

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

B Estimated result. Result is less than RL.

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: SL1271 **Matrix.....:** WATER

LCS Lot-Sample#: F2E300000-097 **Prep Batch #...:** 2151097

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Antimony	500	553	ug/L	111	SW846 6010B	05/30-06/03/12	MTV101AW
			Dilution Factor: 1				
Barium	1000	1040	ug/L	104	SW846 6010B	05/30-06/03/12	MTV101AX
			Dilution Factor: 1				
Beryllium	1000	1030	ug/L	103	SW846 6010B	05/30-06/03/12	MTV101A0
			Dilution Factor: 1				
Cadmium	1000	1060	ug/L	106	SW846 6010B	05/30-06/03/12	MTV101A1
			Dilution Factor: 1				
Calcium	10000	11000	ug/L	110	SW846 6010B	05/30-06/03/12	MTV101A2
			Dilution Factor: 1				
Chromium	1000	1080	ug/L	108	SW846 6010B	05/30-06/03/12	MTV101A3
			Dilution Factor: 1				
Cobalt	1000	1090	ug/L	109	SW846 6010B	05/30-06/03/12	MTV101A4
			Dilution Factor: 1				
Copper	1000	1100	ug/L	110	SW846 6010B	05/30-06/03/12	MTV101A5
			Dilution Factor: 1				
Iron	10000	10400	ug/L	104	SW846 6010B	05/30-06/03/12	MTV101A6
			Dilution Factor: 1				
Magnesium	10000	10300	ug/L	103	SW846 6010B	05/30-06/03/12	MTV101A7
			Dilution Factor: 1				
Manganese	1000	1040	ug/L	104	SW846 6010B	05/30-06/03/12	MTV101A8
			Dilution Factor: 1				
Nickel	1000	1090	ug/L	109	SW846 6010B	05/30-06/03/12	MTV101A9
			Dilution Factor: 1				
Potassium	10000	10300	ug/L	103	SW846 6010B	05/30-06/03/12	MTV101CA
			Dilution Factor: 1				
Silver	100	108	ug/L	108	SW846 6010B	05/30-06/03/12	MTV101CC
			Dilution Factor: 1				

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LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: SL1271 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Sodium	10000	10400	ug/L	104	SW846 6010B	05/30-06/03/12	MTV101CD
			Dilution Factor: 1				
Strontium	1000	1050	ug/L	105	SW846 6010B	05/30-06/03/12	MTV101CE
			Dilution Factor: 1				
Vanadium	1000	1010	ug/L	101	SW846 6010B	05/30-06/03/12	MTV101CF
			Dilution Factor: 1				
Zinc	1000	1070	ug/L	107	SW846 6010B	05/30-06/03/12	MTV101CG
			Dilution Factor: 1				
LCS Lot-Sample#: F2E300000-098 **Prep Batch #...:** 2151098							
Aluminum	10000	9670	ug/L	97	SW846 6020	05/30-06/05/12	MTV241AU
			Dilution Factor: 1				
Antimony	500	499	ug/L	100	SW846 6020	05/30-06/05/12	MTV241AV
			Dilution Factor: 1				
Arsenic	1000	955	ug/L	95	SW846 6020	05/30-06/05/12	MTV241AW
			Dilution Factor: 1				
Barium	1000	986	ug/L	99	SW846 6020	05/30-06/05/12	MTV241AX
			Dilution Factor: 1				
Beryllium	1000	1010	ug/L	101	SW846 6020	05/30-06/05/12	MTV241A0
			Dilution Factor: 1				
Boron	1000	1040	ug/L	104	SW846 6020	05/30-06/05/12	MTV241A1
			Dilution Factor: 1				
Cadmium	1000	963	ug/L	96	SW846 6020	05/30-06/05/12	MTV241A2
			Dilution Factor: 1				
Cobalt	1000	967	ug/L	97	SW846 6020	05/30-06/05/12	MTV241A3
			Dilution Factor: 1				
Copper	1000	910	ug/L	91	SW846 6020	05/30-06/05/12	MTV241A4
			Dilution Factor: 1				
Lead	1000	968	ug/L	97	SW846 6020	05/30-06/05/12	MTV241A5
			Dilution Factor: 1				

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LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: SL1271 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Molybdenum	1000	1070	ug/L	107	SW846 6020	05/30-06/05/12	MTV241A6
			Dilution Factor: 1				
Selenium	1000	902	ug/L	90	SW846 6020	05/30-06/05/12	MTV241A7
			Dilution Factor: 1				
Silver	100	104	ug/L	104	SW846 6020	05/30-06/06/12	MTV241A8
			Dilution Factor: 1				
Thallium	200	197	ug/L	99	SW846 6020	05/30-06/05/12	MTV241A9
			Dilution Factor: 1				
Tin	1000	1000	ug/L	100	SW846 6020	05/30-06/05/12	MTV241CA
			Dilution Factor: 1				
Chromium	1000	965	ug/L	97	SW846 6020	05/30-06/05/12	MTV241CC
			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 #...: SL1271 **Matrix.....:** WATER
Date Sampled...: 05/23/12 **Date Received..:** 05/24/12

MS Lot-Sample #: F2E240419-001 **Prep Batch #...:** 2151097

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Antimony									
	5.3	500	560	ug/L	111		SW846 6010B	05/30-06/03/12	MTQ521FM
	5.3	500	560	ug/L	111	0.01	SW846 6010B	05/30-06/03/12	MTQ521FN
			Dilution Factor: 1						
Barium									
	205	1000	1260	ug/L	106		SW846 6010B	05/30-06/03/12	MTQ521FP
	205	1000	1250	ug/L	104	1.2	SW846 6010B	05/30-06/03/12	MTQ521FQ
			Dilution Factor: 1						
Beryllium									
	5.2	1000	1050	ug/L	104		SW846 6010B	05/30-06/03/12	MTQ521FR
	5.2	1000	1040	ug/L	103	0.86	SW846 6010B	05/30-06/03/12	MTQ521FT
			Dilution Factor: 1						
Cadmium									
	5.4	1000	1080	ug/L	107		SW846 6010B	05/30-06/03/12	MTQ521FU
	5.4	1000	1080	ug/L	107	0.18	SW846 6010B	05/30-06/03/12	MTQ521FV
			Dilution Factor: 1						
Calcium									
	22500	10000	31900	ug/L	94		SW846 6010B	05/30-06/03/12	MTQ521FW
	22500	10000	32100	ug/L	96	0.65	SW846 6010B	05/30-06/03/12	MTQ521FX
			Dilution Factor: 1						
Chromium									
	29.1	1000	1100	ug/L	107		SW846 6010B	05/30-06/03/12	MTQ521F0
	29.1	1000	1100	ug/L	107	0.0	SW846 6010B	05/30-06/03/12	MTQ521F1
			Dilution Factor: 1						
Cobalt									
	28.6	1000	1110	ug/L	108		SW846 6010B	05/30-06/03/12	MTQ521F2
	28.6	1000	1110	ug/L	109	0.27	SW846 6010B	05/30-06/03/12	MTQ521F3
			Dilution Factor: 1						
Copper									
	26.5	1000	1110	ug/L	109		SW846 6010B	05/30-06/03/12	MTQ521F4
	26.5	1000	1120	ug/L	109	0.26	SW846 6010B	05/30-06/03/12	MTQ521F5
			Dilution Factor: 1						

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MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: SL1271 **Matrix.....:** WATER
Date Sampled...: 05/23/12 **Date Received..:** 05/24/12

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron									
	213	10000	10600	ug/L	104		SW846 6010B	05/30-06/03/12	MTQ521F6
	213	10000	10500	ug/L	103	1.0	SW846 6010B	05/30-06/03/12	MTQ521F7
			Dilution Factor: 1						
Magnesium									
	213	10000	10600	ug/L	104		SW846 6010B	05/30-06/03/12	MTQ521F8
	213	10000	10500	ug/L	103	0.94	SW846 6010B	05/30-06/03/12	MTQ521F9
			Dilution Factor: 1						
Manganese									
	25.8	1000	1070	ug/L	104		SW846 6010B	05/30-06/03/12	MTQ521GA
	25.8	1000	1060	ug/L	103	0.84	SW846 6010B	05/30-06/03/12	MTQ521GC
			Dilution Factor: 1						
Nickel									
	31.0	1000	1120	ug/L	108		SW846 6010B	05/30-06/03/12	MTQ521GD
	31.0	1000	1120	ug/L	109	0.26	SW846 6010B	05/30-06/03/12	MTQ521GE
			Dilution Factor: 1						
Potassium									
	5160	10000	15600	ug/L	104		SW846 6010B	05/30-06/03/12	MTQ521GF
	5160	10000	15400	ug/L	103	1.0	SW846 6010B	05/30-06/03/12	MTQ521GG
			Dilution Factor: 1						
Silver									
	ND	100	114	ug/L	114		SW846 6010B	05/30-06/03/12	MTQ521GH
	ND	100	113	ug/L	113	0.88	SW846 6010B	05/30-06/03/12	MTQ521GJ
			Dilution Factor: 1						
Sodium									
	21100	10000	31800	ug/L	107		SW846 6010B	05/30-06/03/12	MTQ521GK
	21100	10000	31600	ug/L	105	0.59	SW846 6010B	05/30-06/03/12	MTQ521GL
			Dilution Factor: 1						
Strontium									
	210	1000	1280	ug/L	107		SW846 6010B	05/30-06/03/12	MTQ521GM
	210	1000	1260	ug/L	105	1.0	SW846 6010B	05/30-06/03/12	MTQ521GN
			Dilution Factor: 1						
Vanadium									
	6.4	1000	1050	ug/L	104		SW846 6010B	05/30-06/03/12	MTQ521GP
	6.4	1000	1030	ug/L	103	1.4	SW846 6010B	05/30-06/03/12	MTQ521GQ
			Dilution Factor: 1						

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MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: SL1271 **Matrix.....:** WATER
Date Sampled...: 05/23/12 **Date Received..:** 05/24/12

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Zinc									
	33.3	1000	1100	ug/L	107		SW846 6010B	05/30-06/03/12	MTQ521GR
	33.3	1000	1100	ug/L	107	0.18	SW846 6010B	05/30-06/03/12	MTQ521GT
			Dilution Factor: 1						

MS Lot-Sample #: F2E240419-001 **Prep Batch #...:** 2151098

Aluminum									
	207	10000	9960	ug/L	97		SW846 6020	05/30-06/05/12	MTQ521GU
	207	10000	9900	ug/L	97	0.60	SW846 6020	05/30-06/05/12	MTQ521GV
			Dilution Factor: 1						
Antimony									
	4.9	500	506	ug/L	100		SW846 6020	05/30-06/05/12	MTQ521GW
	4.9	500	496	ug/L	98	2.1	SW846 6020	05/30-06/05/12	MTQ521GX
			Dilution Factor: 1						
Arsenic									
	5.1	1000	948	ug/L	94		SW846 6020	05/30-06/05/12	MTQ521G0
	5.1	1000	946	ug/L	94	0.24	SW846 6020	05/30-06/05/12	MTQ521G1
			Dilution Factor: 1						
Barium									
	197	1000	1200	ug/L	100		SW846 6020	05/30-06/05/12	MTQ521G2
	197	1000	1180	ug/L	98	1.9	SW846 6020	05/30-06/05/12	MTQ521G3
			Dilution Factor: 1						
Beryllium									
	5.0	1000	1020	ug/L	102		SW846 6020	05/30-06/05/12	MTQ521G4
	5.0	1000	994	ug/L	99	2.8	SW846 6020	05/30-06/05/12	MTQ521G5
			Dilution Factor: 1						
Boron									
	34.9	1000	1110	ug/L	108		SW846 6020	05/30-06/05/12	MTQ521G6
	34.9	1000	1080	ug/L	105	2.7	SW846 6020	05/30-06/05/12	MTQ521G7
			Dilution Factor: 1						
Cadmium									
	4.8	1000	960	ug/L	96		SW846 6020	05/30-06/05/12	MTQ521G8
	4.8	1000	957	ug/L	95	0.36	SW846 6020	05/30-06/05/12	MTQ521G9
			Dilution Factor: 1						

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MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: SL1271 **Matrix.....:** WATER
Date Sampled...: 05/23/12 **Date Received..:** 05/24/12

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Chromium									
	25.6	1000	1000	ug/L	98		SW846 6020	05/30-06/05/12	MTQ521HU
	25.6	1000	1000	ug/L	98	0.0	SW846 6020	05/30-06/05/12	MTQ521HV
			Dilution Factor: 1						
Cobalt									
	24.5	1000	968	ug/L	94		SW846 6020	05/30-06/05/12	MTQ521HA
	24.5	1000	973	ug/L	95	0.50	SW846 6020	05/30-06/05/12	MTQ521HC
			Dilution Factor: 1						
Copper									
	24.1	1000	924	ug/L	90		SW846 6020	05/30-06/05/12	MTQ521HD
	24.1	1000	922	ug/L	90	0.21	SW846 6020	05/30-06/05/12	MTQ521HE
			Dilution Factor: 1						
Lead									
	5.1	1000	981	ug/L	98		SW846 6020	05/30-06/05/12	MTQ521HF
	5.1	1000	972	ug/L	97	0.97	SW846 6020	05/30-06/05/12	MTQ521HG
			Dilution Factor: 1						
Molybdenum									
	ND	1000	1070	ug/L	107		SW846 6020	05/30-06/05/12	MTQ521HH
	ND	1000	1050	ug/L	105	2.4	SW846 6020	05/30-06/05/12	MTQ521HJ
			Dilution Factor: 1						
Selenium									
	5.2	1000	885	ug/L	88		SW846 6020	05/30-06/05/12	MTQ521HK
	5.2	1000	869	ug/L	86	1.8	SW846 6020	05/30-06/05/12	MTQ521HL
			Dilution Factor: 1						
Silver									
	5.2	100	108	ug/L	107		SW846 6020	05/30-06/06/12	MTQ521HM
	5.2	100	110	ug/L	109	1.9	SW846 6020	05/30-06/06/12	MTQ521HN
			Dilution Factor: 1						
Thallium									
	5.6	200	206	ug/L	100		SW846 6020	05/30-06/05/12	MTQ521HP
	5.6	200	205	ug/L	100	0.08	SW846 6020	05/30-06/05/12	MTQ521HQ
			Dilution Factor: 1						
Tin									
	ND	1000	1000	ug/L	100		SW846 6020	05/30-06/05/12	MTQ521HR
	ND	1000	997	ug/L	100	0.62	SW846 6020	05/30-06/05/12	MTQ521HT
			Dilution Factor: 1						

NOTE(S):

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

WET CHEMISTRY

CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2L6K5

General Chemistry

Lot-Sample #...: F2E240419-001 **Work Order #...:** MTQ52 **Matrix.....:** WATER
Date Sampled...: 05/23/12 **Date Received..:** 05/24/12

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride	61.4 N,D	4.0	mg/L	MCAWW 300.0A	05/25/12	2146132
		Dilution Factor: 20		MDL.....: 0.40		
Conductivity	444	1.0	uS/cm	MCAWW 120.1	05/24/12	2145085
		Dilution Factor: 1		MDL.....: 0.097		
Fluoride	0.62 N	0.10	mg/L	MCAWW 300.0A	05/25/12	2146133
		Dilution Factor: 1		MDL.....: 0.010		
Nitrogen, Nitrate	1.7 D	0.40	mg/L	MCAWW 300.0A	05/25/12	2146136
		Dilution Factor: 20		MDL.....: 0.17		
Nitrogen, Nitrite	0.12 N	0.020	mg/L	MCAWW 300.0A	05/25/12	2146135
		Dilution Factor: 1		MDL.....: 0.0030		
Sulfate	13.9	0.50	mg/L	MCAWW 300.0A	05/25/12	2146134
		Dilution Factor: 1		MDL.....: 0.050		
Total Cyanide	208	5.0	ug/L	SW846 9012	05/30-05/31/12	2151055
		Dilution Factor: 1		MDL.....: 1.5		
TOX	493 D	50.0	ug/L	SW846 9020B	05/31/12	2151046
		Dilution Factor: 10		MDL.....: 17.9		

NOTE(S):

RL Reporting Limit

N Spiked analyte recovery is outside stated control limits.

D Result was obtained from the analysis of a dilution.

CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2L6K6

General Chemistry

Lot-Sample #...: F2E240419-002 **Work Order #...:** MTRC6 **Matrix.....:** WATER
Date Sampled...: 05/23/12 **Date Received..:** 05/24/12

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride	63.2 N,D	4.0	mg/L	MCAWW 300.0A	05/25/12	2146132
		Dilution Factor: 20		MDL.....: 0.40		
Conductivity	446	1.0	uS/cm	MCAWW 120.1	05/24/12	2145085
		Dilution Factor: 1		MDL.....: 0.097		
Fluoride	0.60 N	0.10	mg/L	MCAWW 300.0A	05/25/12	2146133
		Dilution Factor: 1		MDL.....: 0.010		
Nitrogen, Nitrate	1.8 D	0.40	mg/L	MCAWW 300.0A	05/25/12	2146136
		Dilution Factor: 20		MDL.....: 0.17		
Nitrogen, Nitrite	0.11 N	0.020	mg/L	MCAWW 300.0A	05/25/12	2146135
		Dilution Factor: 1		MDL.....: 0.0030		
Sulfate	13.9	0.50	mg/L	MCAWW 300.0A	05/25/12	2146134
		Dilution Factor: 1		MDL.....: 0.050		
Total Cyanide	224	5.0	ug/L	SW846 9012	05/30-05/31/12	2151055
		Dilution Factor: 1		MDL.....: 1.5		
TOX	467 D	50.0	ug/L	SW846 9020B	05/31/12	2151046
		Dilution Factor: 10		MDL.....: 17.9		

NOTE(S):

RL Reporting Limit

N Spiked analyte recovery is outside stated control limits.

D Result was obtained from the analysis of a dilution.

CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2L6K7

General Chemistry

Lot-Sample #...: F2E240419-003 **Work Order #...:** MTRC7 **Matrix.....:** WATER
Date Sampled...: 05/23/12 **Date Received..:** 05/24/12

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride	63.5 N,D	4.0	mg/L	MCAWW 300.0A	05/25/12	2146132
		Dilution Factor: 20		MDL.....: 0.40		
Conductivity	444	1.0	uS/cm	MCAWW 120.1	05/24/12	2145085
		Dilution Factor: 1		MDL.....: 0.097		
Fluoride	0.61 N	0.10	mg/L	MCAWW 300.0A	05/25/12	2146133
		Dilution Factor: 1		MDL.....: 0.010		
Nitrogen, Nitrate	1.8 D	0.40	mg/L	MCAWW 300.0A	05/25/12	2146136
		Dilution Factor: 20		MDL.....: 0.17		
Nitrogen, Nitrite	0.11 N	0.020	mg/L	MCAWW 300.0A	05/25/12	2146135
		Dilution Factor: 1		MDL.....: 0.0030		
Sulfate	14.0	0.50	mg/L	MCAWW 300.0A	05/25/12	2146134
		Dilution Factor: 1		MDL.....: 0.050		
Total Cyanide	217	5.0	ug/L	SW846 9012	05/30-05/31/12	2151055
		Dilution Factor: 1		MDL.....: 1.5		
TOX	484 D	50.0	ug/L	SW846 9020B	05/31/12	2151046
		Dilution Factor: 10		MDL.....: 17.9		

NOTE(S):

RL Reporting Limit

N Spiked analyte recovery is outside stated control limits.

D Result was obtained from the analysis of a dilution.

CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2L6L5

General Chemistry

Lot-Sample #...: F2E240419-004 **Work Order #...:** MTTDR **Matrix.....:** WATER
Date Sampled...: 05/23/12 **Date Received..:** 05/25/12

PARAMETER	RESULT		RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Organic Carbon	2.0		1.0	mg/L	SW846 9060	05/29/12	2150062
	Dilution Factor: 1				MDL.....: 0.26		
TOX	406	D	50.0	ug/L	SW846 9020B	05/31/12	2151046
	Dilution Factor: 10				MDL.....: 17.9		

NOTE(S):

RL Reporting Limit

D Result was obtained from the analysis of a dilution.

CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2L6L4

General Chemistry

Lot-Sample #...: F2E240419-005 **Work Order #...:** MTTDW **Matrix.....:** WATER
Date Sampled...: 05/23/12 **Date Received..:** 05/25/12

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Organic Carbon	2.0	1.0	mg/L	SW846 9060	05/29/12	2150062
	Dilution Factor: 1			MDL.....: 0.26		
TOX	410 D	50.0	ug/L	SW846 9020B	05/31/12	2151046
	Dilution Factor: 10			MDL.....: 17.9		

NOTE(S):

RL Reporting Limit

D Result was obtained from the analysis of a dilution.

CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2L6L6

General Chemistry

Lot-Sample #...: F2E240419-006 **Work Order #...:** MTTD0 **Matrix.....:** WATER
Date Sampled...: 05/23/12 **Date Received..:** 05/25/12

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Organic Carbon	1.9	1.0	mg/L	SW846 9060	05/29/12	2150062
	Dilution Factor: 1			MDL.....: 0.26		
TOX	379 D	50.0	ug/L	SW846 9020B	05/31/12	2151046
	Dilution Factor: 10			MDL.....: 17.9		

NOTE(S):

RL Reporting Limit

D Result was obtained from the analysis of a dilution.

CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2L6L7

General Chemistry

Lot-Sample #...: F2E240419-007 **Work Order #...:** MTTD3 **Matrix.....:** WATER
Date Sampled...: 05/23/12 **Date Received..:** 05/25/12

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Organic Carbon	1.9	1.0	mg/L	SW846 9060	05/29/12	2150062
	Dilution Factor: 1			MDL.....: 0.26		
TOX	383 D	50.0	ug/L	SW846 9020B	05/31/12	2151046
	Dilution Factor: 10			MDL.....: 17.9		

NOTE(S):

RL Reporting Limit

D Result was obtained from the analysis of a dilution.

CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2L6K8

General Chemistry

Lot-Sample #...: F2E240419-008 **Work Order #...:** MTTD6 **Matrix.....:** WATER
Date Sampled...: 05/23/12 **Date Received..:** 05/25/12

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride	**56.4 N,D**	**4.0**	**mg/L**	**MCAWW 300.0A**	**05/25/12**	**2146132**
		Dilution Factor: 20		MDL.....: 0.40		
Fluoride	**0.58**	**0.10**	**mg/L**	**MCAWW 300.0A**	**05/31/12**	**2152113**
		Dilution Factor: 1		MDL.....: 0.010		
Nitrogen, Nitrate	**1.5 D**	**0.40**	**mg/L**	**MCAWW 300.0A**	**05/25/12**	**2146136**
		Dilution Factor: 20		MDL.....: 0.17		
Nitrogen, Nitrite	ND N	0.020	mg/L	MCAWW 300.0A	05/25/12	2146135
		Dilution Factor: 1		MDL.....: 0.0030		
Sulfate	**13.1**	**0.50**	**mg/L**	**MCAWW 300.0A**	**05/31/12**	**2152114**
		Dilution Factor: 1		MDL.....: 0.050		

NOTE(S):

RL Reporting Limit

N Spiked analyte recovery is outside stated control limits.

D Result was obtained from the analysis of a dilution.

CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2L6K9

General Chemistry

Lot-Sample #...: F2E240419-009 **Work Order #...:** MTTE5 **Matrix.....:** WATER
Date Sampled...: 05/23/12 **Date Received..:** 05/25/12

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride	**59.6 N,D**	**4.0**	**mg/L**	**MCAWW 300.0A**	**05/25/12**	**2146132**
		Dilution Factor: 20		MDL.....: 0.40		
Fluoride	**0.57 N**	**0.10**	**mg/L**	**MCAWW 300.0A**	**05/25/12**	**2146133**
		Dilution Factor: 1		MDL.....: 0.010		
Nitrogen, Nitrate	**1.6 D**	**0.40**	**mg/L**	**MCAWW 300.0A**	**05/25/12**	**2146136**
		Dilution Factor: 20		MDL.....: 0.17		
Nitrogen, Nitrite	ND N	0.020	mg/L	MCAWW 300.0A	05/25/12	2146135
		Dilution Factor: 1		MDL.....: 0.0030		
Sulfate	**12.9**	**0.50**	**mg/L**	**MCAWW 300.0A**	**05/25/12**	**2146134**
		Dilution Factor: 1		MDL.....: 0.050		

NOTE(S):

RL Reporting Limit

N Spiked analyte recovery is outside stated control limits.

D Result was obtained from the analysis of a dilution.

CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2L6L0

General Chemistry

Lot-Sample #...: F2E240419-010 **Work Order #...:** MTTFA **Matrix.....:** WATER
Date Sampled...: 05/23/12 **Date Received..:** 05/25/12

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride	**58.4 N,D**	**4.0**	**mg/L**	**MCAWW 300.0A**	**05/25/12**	**2146132**
		Dilution Factor: 20		MDL.....: 0.40		
Fluoride	**0.57 N**	**0.10**	**mg/L**	**MCAWW 300.0A**	**05/25/12**	**2146133**
		Dilution Factor: 1		MDL.....: 0.010		
Nitrogen, Nitrate	**1.4 D**	**0.40**	**mg/L**	**MCAWW 300.0A**	**05/25/12**	**2146136**
		Dilution Factor: 20		MDL.....: 0.17		
Nitrogen, Nitrite	ND N	0.020	mg/L	MCAWW 300.0A	05/25/12	2146135
		Dilution Factor: 1		MDL.....: 0.0030		
Sulfate	**12.7**	**0.50**	**mg/L**	**MCAWW 300.0A**	**05/25/12**	**2146134**
		Dilution Factor: 1		MDL.....: 0.050		

NOTE(S):

RL Reporting Limit

N Spiked analyte recovery is outside stated control limits.

D Result was obtained from the analysis of a dilution.

CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2L6L1

General Chemistry

Lot-Sample #...: F2E240419-011 **Work Order #...:** MTTFD **Matrix.....:** WATER
Date Sampled...: 05/23/12 **Date Received..:** 05/25/12

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride	3.6 N	0.20	mg/L	MCAWW 300.0A	05/25/12	2146132
		Dilution Factor: 1		MDL.....: 0.020		
Fluoride	0.53 N	0.10	mg/L	MCAWW 300.0A	05/25/12	2146133
		Dilution Factor: 1		MDL.....: 0.010		
Nitrogen, Nitrate	1.4 D	0.40	mg/L	MCAWW 300.0A	05/25/12	2146136
		Dilution Factor: 20		MDL.....: 0.17		
Nitrogen, Nitrite	0.11 N	0.020	mg/L	MCAWW 300.0A	05/25/12	2146135
		Dilution Factor: 1		MDL.....: 0.0030		
Sulfate	12.8	0.50	mg/L	MCAWW 300.0A	05/25/12	2146134
		Dilution Factor: 1		MDL.....: 0.050		

NOTE(S):

RL Reporting Limit

N Spiked analyte recovery is outside stated control limits.

D Result was obtained from the analysis of a dilution.

CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2L6L2

General Chemistry

Lot-Sample #...: F2E240419-012 **Work Order #...:** MTTFE **Matrix.....:** WATER
Date Sampled...: 05/23/12 **Date Received..:** 05/25/12

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride	3.4 N	0.20	mg/L	MCAWW 300.0A	05/25/12	2146132
		Dilution Factor: 1		MDL.....: 0.020		
Fluoride	0.54 N	0.10	mg/L	MCAWW 300.0A	05/25/12	2146133
		Dilution Factor: 1		MDL.....: 0.010		
Nitrogen, Nitrate	1.4 D	0.20	mg/L	MCAWW 300.0A	05/29/12	2150067
		Dilution Factor: 10		MDL.....: 0.086		
Nitrogen, Nitrite	0.11 N	0.020	mg/L	MCAWW 300.0A	05/25/12	2146135
		Dilution Factor: 1		MDL.....: 0.0030		
Sulfate	12.4	0.50	mg/L	MCAWW 300.0A	05/25/12	2146134
		Dilution Factor: 1		MDL.....: 0.050		

NOTE(S):

RL Reporting Limit

N Spiked analyte recovery is outside stated control limits.

D Result was obtained from the analysis of a dilution.

CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2L6L3

General Chemistry

Lot-Sample #...: F2E240419-013 **Work Order #...:** MTTFG **Matrix.....:** WATER
Date Sampled...: 05/23/12 **Date Received..:** 05/25/12

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride	3.4 N	0.20	mg/L	MCAWW 300.0A	05/25/12	2146132
		Dilution Factor: 1		MDL.....: 0.020		
Fluoride	0.60	0.10	mg/L	MCAWW 300.0A	05/31/12	2152113
		Dilution Factor: 1		MDL.....: 0.010		
Nitrogen, Nitrate	1.6 D	0.40	mg/L	MCAWW 300.0A	05/25/12	2146136
		Dilution Factor: 20		MDL.....: 0.17		
Nitrogen, Nitrite	0.10 N	0.020	mg/L	MCAWW 300.0A	05/25/12	2146135
		Dilution Factor: 1		MDL.....: 0.0030		
Sulfate	13.3	0.50	mg/L	MCAWW 300.0A	05/31/12	2152114
		Dilution Factor: 1		MDL.....: 0.050		

NOTE(S):

RL Reporting Limit

N Spiked analyte recovery is outside stated control limits.

D Result was obtained from the analysis of a dilution.

METHOD BLANK REPORT

General Chemistry

Client Lot #...: SL1271 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride		Work Order #: MTWD41AA		MB Lot-Sample #:	F2E250000-132	
	ND	0.20	mg/L	MCAWW 300.0A	05/25/12	2146132
		Dilution Factor: 1				
Conductivity		Work Order #: MTXV41AA		MB Lot-Sample #:	F2E240000-085	
	0.34 B	**1.0**	**uS/cm**	**MCAWW 120.1**	**05/24/12**	**2145085**
		Dilution Factor: 1				
Fluoride		Work Order #: MTWD51AA		MB Lot-Sample #:	F2E250000-133	
	ND	0.10	mg/L	MCAWW 300.0A	05/25/12	2146133
		Dilution Factor: 1				
Fluoride		Work Order #: MTXLF1AA		MB Lot-Sample #:	F2E310000-113	
	ND	0.10	mg/L	MCAWW 300.0A	05/31/12	2152113
		Dilution Factor: 1				
Nitrogen, Nitrate		Work Order #: MTWD81AA		MB Lot-Sample #:	F2E250000-136	
	ND	0.020	mg/L	MCAWW 300.0A	05/25/12	2146136
		Dilution Factor: 1				
Nitrogen, Nitrate		Work Order #: MTWKL1AA		MB Lot-Sample #:	F2E290000-067	
	ND	0.020	mg/L	MCAWW 300.0A	05/29/12	2150067
		Dilution Factor: 1				
Nitrogen, Nitrite		Work Order #: MTWD71AA		MB Lot-Sample #:	F2E250000-135	
	ND	0.020	mg/L	MCAWW 300.0A	05/25/12	2146135
		Dilution Factor: 1				
Sulfate		Work Order #: MTWD61AA		MB Lot-Sample #:	F2E250000-134	
	ND	0.50	mg/L	MCAWW 300.0A	05/25/12	2146134
		Dilution Factor: 1				
Sulfate		Work Order #: MTXLG1AA		MB Lot-Sample #:	F2E310000-114	
	ND	0.50	mg/L	MCAWW 300.0A	05/31/12	2152114
		Dilution Factor: 1				
Total Cyanide		Work Order #: MTVTE1AA		MB Lot-Sample #:	F2E300000-055	
	ND	5.0	ug/L	SW846 9012	05/30-05/31/12	2151055
		Dilution Factor: 1				
Total Organic Carbon		Work Order #: MTVP81AA		MB Lot-Sample #:	F2E290000-062	
	ND	1.0	mg/L	SW846 9060	05/29/12	2150062
		Dilution Factor: 1				

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METHOD BLANK REPORT

General Chemistry

Client Lot #...: SL1271 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
TOX		Work Order #: MTWLG1AA		MB Lot-Sample #:	F2E300000-046	
	3.5 B	5.0	ug/L	SW846 9020B	05/30-05/31/12	2151046
		Dilution Factor: 1				

NOTE(S):

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

B Estimated result. Result is less than RL.

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Client Lot #...: SL1271 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride			Work Order #: MTWD41AC		LCS Lot-Sample#:	F2E250000-132	
	2.00	1.90	mg/L	95	MCAWW 300.0A	05/24/12	2146132
			Dilution Factor: 1				
Conductivity			Work Order #: MTXV41AC		LCS Lot-Sample#:	F2E240000-085	
	500	504	uS/cm	101	MCAWW 120.1	05/24/12	2145085
			Dilution Factor: 1				
Fluoride			Work Order #: MTWD51AC		LCS Lot-Sample#:	F2E250000-133	
	1.00	0.997	mg/L	100	MCAWW 300.0A	05/24/12	2146133
			Dilution Factor: 1				
Fluoride			Work Order #: MTXLF1AC		LCS Lot-Sample#:	F2E310000-113	
	1.00	0.999	mg/L	100	MCAWW 300.0A	05/31/12	2152113
			Dilution Factor: 1				
Nitrogen, Nitrate			Work Order #: MTWD81AC		LCS Lot-Sample#:	F2E250000-136	
	0.400	0.398	mg/L	99	MCAWW 300.0A	05/24/12	2146136
			Dilution Factor: 1				
Nitrogen, Nitrate			Work Order #: MTWKL1AC		LCS Lot-Sample#:	F2E290000-067	
	0.400	0.377	mg/L	94	MCAWW 300.0A	05/29/12	2150067
			Dilution Factor: 1				
Nitrogen, Nitrite			Work Order #: MTWD71AC		LCS Lot-Sample#:	F2E250000-135	
	0.160	0.149	mg/L	93	MCAWW 300.0A	05/24/12	2146135
			Dilution Factor: 1				
Sulfate			Work Order #: MTWD61AC		LCS Lot-Sample#:	F2E250000-134	
	8.00	7.92	mg/L	99	MCAWW 300.0A	05/24/12	2146134
			Dilution Factor: 1				
Sulfate			Work Order #: MTXLG1AC		LCS Lot-Sample#:	F2E310000-114	
	8.00	7.65	mg/L	96	MCAWW 300.0A	05/31/12	2152114
			Dilution Factor: 1				
Total Cyanide			Work Order #: MTVTE1AC		LCS Lot-Sample#:	F2E300000-055	
	200	213	ug/L	106	SW846 9012	05/30-05/31/12	2151055
			Dilution Factor: 1				
Total Cyanide			Work Order #: MTVTE1AD		LCS Lot-Sample#:	F2E300000-055	
	400	398	ug/L	100	SW846 9012	05/30-05/31/12	2151055
			Dilution Factor: 1				

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LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Client Lot #...: SL1271 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Organic Carbon			Work Order #: MTVP81AC LCS Lot-Sample#: F2E290000-062				
	6.00	6.22	mg/L	104	SW846 9060	05/29/12	2150062
			Dilution Factor: 1				
TOX			Work Order #: MTWLG1AC LCS Lot-Sample#: F2E300000-046				
	100	111	ug/L	111	SW846 9020B	05/30-05/31/12	2151046
			Dilution Factor: 1				

NOTE(S):

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

MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #...: SL1271 **Matrix.....:** WATER
Date Sampled...: 05/23/12 **Date Received..:** 05/24/12

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride			Work Order #...:		MTQ521FA		MS Lot-Sample #:	F2E240419-001
	61.4	40.0	106 N	mg/L	111	MCAWW 300.0A	05/25/12	2146132
			Dilution Factor: 20					
Conductivity			Work Order #...:		MTQ521E0		MS Lot-Sample #:	F2E240419-001
	444	1410	1900	uS/cm	103	MCAWW 120.1	05/24/12	2145085
			Dilution Factor: 1					
Fluoride			Work Order #...:		MTQ521FC		MS Lot-Sample #:	F2E240419-001
	0.62	2.00	2.85 N	mg/L	112	MCAWW 300.0A	05/25/12	2146133
			Dilution Factor: 1					
Fluoride			Work Order #...:		MTTD61AH		MS Lot-Sample #:	F2E240419-008
	0.58	2.00	2.66	mg/L	104	MCAWW 300.0A	05/31/12	2152113
			Dilution Factor: 1					
Nitrogen, Nitrate			Work Order #...:		MTQ521FF		MS Lot-Sample #:	F2E240419-001
	1.7	8.00	9.95	mg/L	103	MCAWW 300.0A	05/25/12	2146136
			Dilution Factor: 20					
Nitrogen, Nitrate			Work Order #...:		MTTFE1AG		MS Lot-Sample #:	F2E240419-012
	1.4	4.00	5.36	mg/L	100	MCAWW 300.0A	05/29/12	2150067
			Dilution Factor: 10					
Nitrogen, Nitrite			Work Order #...:		MTQ521FE		MS Lot-Sample #:	F2E240419-001
	0.12	0.100	0.202 N	mg/L	85	MCAWW 300.0A	05/25/12	2146135
			Dilution Factor: 1					
Sulfate			Work Order #...:		MTQ521FD		MS Lot-Sample #:	F2E240419-001
	13.9	4.00	17.9	mg/L	100	MCAWW 300.0A	05/25/12	2146134
			Dilution Factor: 1					
Sulfate			Work Order #...:		MTTD61AK		MS Lot-Sample #:	F2E240419-008
	13.1	4.00	17.5	mg/L	109	MCAWW 300.0A	05/31/12	2152114
			Dilution Factor: 1					
Total Cyanide			Work Order #...:		MTQ521E1		MS Lot-Sample #:	F2E240419-001
	208	200	441	ug/L	117	SW846 9012	05/30-05/31/12	2151055
			Dilution Factor: 1					
Total Organic Carbon			Work Order #...:		MTKGN1AQ		MS Lot-Sample #:	F2E150431-003
	ND	5.00	5.51	mg/L	110	SW846 9060	05/29/12	2150062
			Dilution Factor: 1					

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MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #...: SL1271 **Matrix.....:** WATER
Date Sampled...: 05/23/12 **Date Received..:** 05/24/12

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Organic Carbon			Work Order #...: MTTD31AE			MS Lot-Sample #: F2E240419-007		
	1.9	5.00	7.39	mg/L	110	SW846 9060	05/29/12	2150062
			Dilution Factor: 1					
TOX			Work Order #...: MTQ521EX			MS Lot-Sample #: F2E240419-001		
	493	1000	1520	ug/L	103	SW846 9020B	05/31/12	2151046
			Dilution Factor: 10					

NOTE(S):

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

N Spiked analyte recovery is outside stated control limits.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: F2E230450 **Work Order #...:** MTQ52-SMP MTQ52-DUP **Matrix.....:** WATER

Date Sampled...: 05/23/12 **Date Received..:** 05/24/12

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride						SD Lot-Sample #:	F2E240419-001	
	61.4 N,D	64.3 N,D	mg/L	4.6	(0-20)	MCAWW 300.0A	05/25/12	2146132
			Dilution Factor: 20					
Fluoride						SD Lot-Sample #:	F2E240419-001	
	0.62 N	0.63 N	mg/L	1.4	(0-20)	MCAWW 300.0A	05/25/12	2146133
			Dilution Factor: 1					
Sulfate						SD Lot-Sample #:	F2E240419-001	
	13.9	14.0	mg/L	0.78	(0-20)	MCAWW 300.0A	05/25/12	2146134
			Dilution Factor: 1					
Nitrogen, Nitrite						SD Lot-Sample #:	F2E240419-001	
	0.12 N	0.11 N	mg/L	2.4	(0-20)	MCAWW 300.0A	05/25/12	2146135
			Dilution Factor: 1					
Nitrogen, Nitrate						SD Lot-Sample #:	F2E240419-001	
	1.7 D	1.8 D	mg/L	3.3	(0-20)	MCAWW 300.0A	05/25/12	2146136
			Dilution Factor: 20					
TOX						SD Lot-Sample #:	F2E240419-001	
	493 D	501 D	ug/L	1.7	(0-20)	SW846 9020B	05/31/12	2151046
			Dilution Factor: 10					
Conductivity						SD Lot-Sample #:	F2E240419-001	
	444	444	uS/cm	0.0	(0-20)	MCAWW 120.1	05/24/12	2145085
			Dilution Factor: 1					
Total Cyanide						SD Lot-Sample #:	F2E240419-001	
	208	218	ug/L	4.8	(0-20)	SW846 9012	05/30-05/31/12	2151055
			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.

D Result was obtained from the analysis of a dilution.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: F2E230450 **Work Order #...:** MTKGN-SMP MTKGN-DUP **Matrix.....:** WATER

Date Sampled...: 05/14/12 **Date Received..:** 05/15/12

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Organic Carbon						SD Lot-Sample #:	F2E150431-003	
	ND	ND	mg/L	0	(0-20)	SW846 9060	05/29/12	2150062

Dilution Factor: 1

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: F2E230450 **Work Order #...:** MTTD3-SMP MTTD3-DUP **Matrix.....:** WATER

Date Sampled...: 05/23/12 **Date Received..:** 05/24/12

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Organic Carbon						SD Lot-Sample #: F2E240419-007		
	1.9	1.9	mg/L	1.4	(0-20)	SW846 9060	05/29/12	2150062

Dilution Factor: 1

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: F2E230450 **Work Order #...:** MTTFE-SMP MTTFE-DUP **Matrix.....:** WATER

Date Sampled...: 05/23/12 **Date Received..:** 05/24/12

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrogen, Nitrate						SD Lot-Sample #:	F2E240419-012	
	1.4 D	1.5 D	mg/L	7.2	(0-20)	MCAWW 300.0A	05/29/12	2150067

Dilution Factor: 10

NOTE(S):

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

D Result was obtained from the analysis of a dilution.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: F2E230450 **Work Order #...:** MTTD6-SMP MTTD6-DUP **Matrix.....:** WATER

Date Sampled...: 05/23/12 **Date Received..:** 05/24/12

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Fluoride						SD Lot-Sample #:	F2E240419-008	
	0.58	0.59	mg/L	1.5	(0-20)	MCAWW 300.0A	05/31/12	2152113
			Dilution Factor: 1					
Sulfate						SD Lot-Sample #:	F2E240419-008	
	13.1	13.3	mg/L	1.4	(0-20)	MCAWW 300.0A	05/31/12	2152114
			Dilution Factor: 1					