TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

ANALYTICAL REPORT

I12-020

Lot #: F2D120462
SDG #: SL1265

Scot Fitzgerald

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

TESTAMERICA LABORATORIES, INC.

Jayna Awalt
Project Manager

April 30, 2012

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CASE NARRATIVE

CH2MHill Plateau Remediation Company
P.O. Box 1600
MS B3-60
Richland, Washington 99352
April 30, 2012
Attention: Scot Fitzgerald

TestAmerica Laboratories, Inc.

SDG	: SL1265
Number of Samples	: 25 samples
Sample Matrix	: Water
Data Deliverable	: Summary
Date SDG Closed	: April 18, 2012

II. Introduction

Between April 12, 2012 and April 18, 2012, 25 water samples were received by TestAmerica - St. Louis for chemical analysis. The samples were received within temperature criteria. See the COC and CUR forms for documentation of any variations on receipt conditions and temperature. Upon receipt, the samples were given laboratory Ids to correspond with specific client Ids. Please refer to the Sample Summary sheets attached to this case narrative. This report is incomplete without the narrative.

The following SAFs are associated with this SDG: I12-020, W12-004, I12-016, 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: 2109084

The CCV recovery was outside the upper QC limit (greater than 20% D) for Bromomethane indicating a potential high bias for this analyte in the samples associated with this CCV. This analyte was not detected above the reporting limit in the associated samples.
Affected Samples:
F2D120462 (1): B2KFW5
F2D120462 (2): B2KFW6
F2D130430 (1): B2KFX5
F2D170439 (1): B2KFF2
F2D170441 (1): B2K4B7
F2D170442 (12): B2L247

The MS recovery for Methylene chloride is outside the established QC limits. The RPD value for this analyte is within method acceptance criteria indicating possible matrix interference. Method performance is demonstrated by acceptable LCS recovery. This analyte has been qualified accordingly with a "T" flag in the associated samples.
Affected Samples:
F2D120462 (1): B2KFW5
F2D120462 (2): B2KFW6
F2D130430 (1): B2KFX5
F2D170439 (1): B2KFF2
F2D170441 (1): B2K4B7
F2D170442 (12): B2L247

The MS/MSD RPD for 1,4-Dioxane is not within method acceptance criteria. MS/MSD recoveries are within QC limits demonstrating good extraction performance in the sample matrix.
Affected Samples:
F2D120462 (1): B2KFW5
F2D120462 (2): B2KFW6
F2D130430 (1): B2KFX5
F2D170439 (1): B2KFF2

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F2D170441 (1): B2K4B7
F2D170442 (12): B2L247

The samples were analyzed at a 25x dilution due to high concentrations of Carbon tetrachloride. The reporting limit has been adjusted only for this target reported from the dilution analysis. This analyte has been qualified accordingly with a "D" flag in the associated samples.
Affected Samples:
F2D120462 (2): B2KFW6
F2D130430 (1): B2KFX5

Batch: 2108089

The MS/MSD RPD for 1,4-Dioxane is not within method acceptance criteria. MS/MSD recoveries are within QC limits demonstrating good extraction performance in the sample matrix.
Affected Samples:
F2D120464 (1): B2L245
F2D130428 (1): B2L246

Semivolatiles

Batch: 2109120

Two liters were received for this sample. Three liters is the method suggested volume for sample, MS and MSD. Lab practice is to retain volume in case a QC failure requires a re-extraction. LCS/LCSD was performed to demonstrate accuracy and replicate precision in place of the MS/MSD.
Affected Samples:
F2D170439 (1): B2KFF2

The CCV recovery was outside the upper QC limit (greater than 20% D) for Famphur indicating a potential high bias for this analyte in the samples associated with this CCV. This analyte was not detected above the reporting limit in the associated sample.
Affected Samples:
F2D170439 (1): B2KFF2

Batch: 2111079

Three liters is the method suggested volume for sample, MS and MSD. Lab practice is to retain volume in case a QC failure requires a re-extraction. The MS/MSD was extracted at a lesser volume to preserve a liter for re-analysis.
Affected Samples:
F2D180412 (1): B2KL30
F2D180412 (2): B2KL50
F2D180412 (3): B2KL60
F2D180412 (4): B2KL70
F2D180412 (5): B2KL81

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F2D180412 (6): B2KL82

GC Phenols

Batch: 2110096

Three liters is the method suggested volume for sample, MS and MSD. Lab practice is to retain volume in case a QC failure requires a re-extraction. The MS/MSD was extracted at a lesser volume to preserve a liter for re-analysis.
Affected Samples:
F2D170442 (1): B2KK55
F2D170442 (2): B2KK67
F2D170442 (3): B2KK60
F2D170442 (4): B2KK12
F2D170442 (5): B2KKH1
F2D170442 (6): B2KK82
F2D170442 (7): B2KKH0
F2D170442 (8): B2KK17
F2D170442 (9): B2KK02
F2D170442 (10): B2KK34
F2D170442 (11): B2KK39

Sample surrogate recoveries are outside established QC limits. The sample was reprepared/reanalyzed outside hold time, but within the 2X hold time window. The reanalysis data had acceptable QC recoveries. Both sets of data were non-detect for target analytes. Per SDR 12-245, the original data, with the failing surrogate recoveries performed within hold time, has been reported.
Affected Samples:
F2D170442 (11): B2KK39

Pesticides

Batch: 2109122

Two liters were received for these samples. Three liters is the method suggested volume for sample, MS and MSD. Lab practice is to retain volume in case a QC failure requires a re-extraction. LCS/LCSD was performed to demonstrate accuracy and replicate precision in place of the MS/MSD.
Affected Samples:
F2D170439 (1): B2KFF2

The LCS and LCSD recovery for delta-BHC is outside the upper QC limits, indicating a potential positive bias for this analyte. This analyte was not detected above the reporting limit in the associated samples; therefore the sample data was not adversely affected by this excursion. The original sample results are provided.
Affected Samples:
F2D170439 (1): B2KFF2

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The %D between the primary and secondary column result for beta-BHC and Aldrin is greater than 40%. SW method 8000C prescribes reporting the lower of the two column results in the absence of chromatographic anomalies observed on the column yielding the lower result. The lower result is reported.
Affected Samples:
F2D170439 (1): B2KFF2

Sample surrogate recovery is outside established QC limits. This excursion is attributed to a matrix interference which is physically evident in the sample. There is a chromatographic evidence of interference.
Affected Samples:
F2D170439 (1): B2KFF2

PAHs

Batch: 2109121

Anthracene was detected in the method blank above the method detection limit but below the reporting limit. This analyte has been qualified accordingly with a "B" flag in the associated sample.
Affected Samples:
F2D170439 (1): B2KFF2

Two liters were received for these samples. Three liters is the method suggested volume for sample, MS and MSD. Lab practice is to retain volume in case a QC failure requires a re-extraction. LCS/LCSD was performed to demonstrate accuracy and replicate precision in place of the MS/MSD.
Affected Samples:
F2D170439 (1): B2KFF2

Several analytes detected in the associated samples were given the "S" qualifier. The "S" was used to designate positive analyte detection on the primary column that appeared questionable during spectral confirmation. The software used to perform the confirmation of hits reviews an overlay of the sample and the reference library spectra. The software evaluates the differences in the spectra and assigns a "match" value. Values above 700 are considered a confirmation and results are reported. Values under the 700 threshold are flagged with the "S" qualifier.
Affected Samples:
F2D170439 (1): B2KFF2

There were no observations or nonconformances for the following methods:

Total Sulfide

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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:

Jayna Awalt
St. Louis Project Manager

SAMPLE ISSUE RESOLUTION

SIR NUM	SDR12-245
REV NUM	0
DATE INITIATED	4/27/2012

SAMPLE EVENT INFORMATION

SAF NUM(S)	W12-004
OPERABLE UNIT(S)	NONE
PROJECT(S)	RCRA12
SAMPLE EVENT TITLE(S)	RCRA12
LABORATORY	TestAmerica St. Louis

SAMPLING INFORMATION

NUMBER OF SAMPLES	1
SAMPLE NUMBERS	B2KK39
SAMPLE MATRIX	WATER
COLLECTION DATE	4/13/2012 - 4/13/2012
SDG NUM	SL1265

ISSUE BACKGROUND

CLASS	Laboratory Issue
TYPE	Quality Control Failure
DESCRIPTION	For Phenol analysis, sample surrogate recovery was outside the established QC limits. Sample was non-detect and QC was within acceptance limits. Sample was reanalyzed outside the initial hold time but within two times hold with acceptable surrogate recovery. Sample result was still non-detect with passing QC.

DISPOSITION

DESCRIPTION	PROPOSED DISPOSITION: TASL proposes to report the original analysis performed within hold time with failing surrogate recovery and narrate the excursion in the case narrative.
JUSTIFICATION	ACCEPTED DISPOSITION: Accept proposed resolution. SUBMITTED BY: Jayna Awalt/TASL DATE: 4/27/12 ACCEPTED BY: Karen Waters-Husted DATE: 4/30/12

SAMPLE ISSUE RESOLUTION

SIR NUM	SDR12-319
REV NUM	0
DATE INITIATED	7/30/2012

SAMPLE EVENT INFORMATION

SAF NUM(S)	Multiple
OPERABLE UNIT(S)	Multiple
PROJECT(S)	Multiple
SAMPLE EVENT TITLE(S)	Multiple
LABORATORY	TestAmerica St. Louis

SAMPLING INFORMATION

NUMBER OF SAMPLES	Multiple
SAMPLE NUMBERS	Multiple
SAMPLE MATRIX	WATER
COLLECTION DATE	1/27/2009 – 7/30/2012
SDG NUM	See Attachment 2

ISSUE BACKGROUND

CLASS General Laboratory Direction

TYPE Clarification of Direction

DESCRIPTION

Through the current date, 7/30/2012, chain-of-custody paperwork originated by Sample Management and Reporting has requested EPA method 8040 (8040_PHENOLIC_GC) when requesting sample analysis for phenols by gas chromatography.

TestAmerica St. Louis laboratory has provided sample analysis for phenols by EPA method 8041A since February 9, 2009 (see Attachment 1 email "Phenol 8041 effective date", Mike Franks to JG Douglas, dated 7/30/2012).

The SDG numbers for the data packages affected by the change from method 8040 to 8041A are listed in Attachment 2 to this SIR. These data packages date from 2/24/2009 to the date this SIR was initiated (7/30/2012). Any additional TASL data packages yet to be released that indicate phenols were requested by method 8040 but were actually analyzed by 8041A also come under the purview of this SIR.

DISPOSITION

DESCRIPTION

Proposed Disposition:

(1) SMR personnel will insert a copy of this SIR and its attachments into the electronic copies of the data packages listed in Attachment 2 of this SIR. Electronic copies of the revised data packages will be sent to TASL.

AND

(2) For any yet-to-be-released data packages for which the COC paperwork requests method 8040, TASL personnel will insert a copy of this SIR and its attachments in the affected data package and will note in the data package case narrative that method 8041A was performed in place of the requested method 8040.

JUSTIFICATION

Accepted Disposition: Accept Proposed Disposition

Submitted by: JG Douglas / CHPRC Date: 7/30/2012

Accepted by: Chenise Y. Lambert-Sykes / TASL Date: 8/1/2012

SIR SDR 12-319 Attachment 1:
TASL Effective Start Date for Method 8041 Phenols

Douglas, James G (Jim)

From: Franks, Mike <Mike.Franks@testamericainc.com>
Sent: Monday, July 30, 2012 9:44 AM
To: Douglas, James G (Jim); Puckett, Susan
Cc: Lambert-Sykes, Chenise
Subject: Phenol 8041 effective date

Good morning,
TestAmerica St. Louis (TASL) began performing analysis of Phenols by method SW846 8041A on February 9, 2009.

Thank you.

Mike

Mike Franks
CSM

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13715 Rider Trail North
St. Louis, MO 63045
314-298-8566|Fax: 314-298-8757
www.testamericainc.com

SIR SDR 12-319 Attachment 2:
TASL SDG Numbers with Method 8041 Phenol Results

SDG	DATE COMPLETED
SL780	20090224
SL781	20090304
SL783	20090331
SL784	20090407
SL785	20090430
SL786	20090430
SL787	20090422
SL788	20090511
SL790	20090526
SL799	20090617
SL813	20090828
SL825	20091103
SL833	20091208
SL844	20100127
SL850	20100215
SL854	20100222
SL868	20100311
SL879	20100312
SL896	20100524
SL903	20100505
SL907	20100511
SL910	20100511
SL930	20100622
SL934	20100707
SL945	20100806
SL962	20100908
SL1011	20101229
SL1023	20110112
SL1024	20110113
SL1033	20110131
SL1037	20110222
SL1041	20110301

SDG	DATE COMPLETED
SL1063	20110405
SL1065	20110422
SL1067	20110429
SL1073	20110531
SL1076	20110607
SL1078	20110614
SL1082	20110705
SL1084	20120223
SL1086	20110718
SL1087	20110718
SL1091	20110725
SL1093	20110811
SL1100	20110912
SL1108	20110921
SL1148	20111109
SL1152	20111109
SL1194	20120127
SL1218	20111214
SL1223	20111214
SL1237	20120127
SL1239	20120206
SL1242	20120104
SL1244	20120130
SL1247	20120221
SL1258	20120316
SL1263	20120419
SL1265	20120430
SL1266	20120430
SL1267	20120508
SL1268	20120518
SL1274	20120627
SL1275	20120705

METHODS SUMMARY

SL1265

PARAMETER	ANALYTICAL METHOD	PREPARATION METHOD
Organochlorine Pesticides	SW846 8081A	SW846 3520C
Phenols by GC	SW846 8040A	SW846 3520
Polynuclear Aromatic Hydrocarbons by HPLC	SW846 8310	SW846 3510
Semivolatile Organic Compounds by GC/MS	SW846 8270C	SW846 3510C
Sulfide	SW846 9030	
Volatile Organics by GC/MS	SW846 8260B	SW846 5030B

References:

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

SAMPLE SUMMARY

SL1265 : F2D120462

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
MR0FX	001	B2KFW5	04/10/12	07:10
MR0F1	002	B2KFW6	04/10/12	11:05

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

SL1265 : F2D120464

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
MR0F6	001	B2L245	04/10/12	11:05

NOTE(S):

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(Continued on next page)

SAMPLE SUMMARY

SL1265 : F2D130428

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
MR069	001	B2L246	04/11/12	13:16

NOTE(S):

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(Continued on next page)

SAMPLE SUMMARY

SL1265 : F2D130430

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
MR07H	001	B2KFX5	04/11/12	13:16

NOTE(S):

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(Continued on next page)

SAMPLE SUMMARY

SL1265 : F2D170439

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
MR2R6	001	B2KFF2	04/13/12	12:45

NOTE(S):

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(Continued on next page)

SAMPLE SUMMARY

SL1265 : F2D170441

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
MR2TD	001	B2K4B7	04/13/12	08:30

NOTE(S):

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(Continued on next page)

SAMPLE SUMMARY

SL1265 : F2D170442

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
MR2TE	001	B2KK55	04/13/12	10:51
MR2TG	002	B2KK67	04/12/12	09:29
MR2TH	003	B2KK60	04/13/12	09:12
MR2TJ	004	B2KK12	04/13/12	08:13
MR2TK	005	B2KKH1	04/13/12	09:42
MR2TL	006	B2KK82	04/13/12	12:09
MR2TM	007	B2KKH0	04/13/12	09:42
MR2TN	008	B2KK17	04/12/12	09:51
MR2TP	009	B2KK02	04/12/12	14:17
MR2TQ	010	B2KK34	04/13/12	08:56
MR2TR	011	B2KK39	04/13/12	09:46
MR2TT	012	B2L247	04/13/12	08:30

NOTE(S):

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(Continued on next page)

SAMPLE SUMMARY

SL1265 : F2D180412

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
MR3E3	001	B2KL30	04/16/12	09:40
MR3E4	002	B2KL50	04/16/12	10:43
MR3E5	003	B2KL60	04/16/12	13:33
MR3E6	004	B2KL70	04/16/12	11:35
MR3E7	005	B2KL81	04/16/12	09:00
MR3FA	006	B2KL82	04/16/12	11:20

NOTE(S):

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SDG #SL1265

CH2MHill Plateau Remediation Company SL1265	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # I12-020-020
		Page 1 of 1

Collector	AL MCINTYRE / CHPRC	**Contact/Requester**	Karen Waters-Husted	**Telephone No.**	376-4650
SAF No.	I12-020	**Sampling Origin**	Hanford Site	**Purchase Order/Charge Code**	300071ES20
Project Title	2ZP1, APRIL 2012	**Logbook No.**	HNF-N-506 44 / 51	**Ice Chest No.**	GWS-229-1
Shipped To (Lab)	TestAmerica St. Louis	**Method of Shipment**	Commercial Carrier	**Bill of Lading/Air Bill No.**	7982 7163 5784
Protocol	CERCLA	**Priority:**	**45 Days**	**Offsite Property No.**	N/A

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 ☐

200 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
B2KFW5	N	W	APR 10 2012	0710	4x40-mL aGs*	8260_VOA_GCMS: List-2 (55)	14 Days	HCl or H2SO4 to pH <2/Cool~4C
B2KFW5	N	W	APR 10 2012	0710	3x500-mL G/P	9030_SULFIDE: Sulfide (1)	7 Days	ZnAc+NaOH to pH > 9/Cool~4C
B2KFW5	N	W	APR 10 2012	0710	1x20-mL P	Activity Scan	6 Months	None

Relinquished By	Print / Sign	Date/Time	Received By	Print / Sign	Date/Time
AL MCINTYRE / CHPRC		APR 10 2012 1335	SSU #1		APR 10 2012 1335
SSU #1		APR 11 2012 0830	DON BROTHERTON / CHPRC		APR 11 2012 0830
DON BROTHERTON / CHPRC		APR 11 2012 1410	FED EX		
FedEx			SWilson		4-12-12 0930

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

PRINTED ON 3/5/2012

A-6004-842 (REV 2)

AUGUST 2, 2012

REVISION 1

TestAmerica - St. Louis

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CH2MHill Plateau Remediation Company SL1265	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # I12-020-021 Page 1 of 1

Collector	AL MCINTYRE / CHPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	376-4650
SAF No.	I12-020	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071ES20
Project Title	2ZP1, APRIL 2012	Logbook No.	HNF-N-506 44 151	Ice Chest No.	BWS -229-1
Shipped To (Lab)	TestAmerica St. Louis	Method of Shipment	Commercial Carrier	Bill of Lading/Air Bill No.	7982 7163 5784
Protocol	CERCLA	Priority:	45 Days	Offsite Property No.	N/A

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 ☐

200 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
B2KFW6	N	W	APR 10 2012	1105	4x40-mL aGs*	8260_VOA_GCMS: List-2 (55)	14 Days	HCl or H2SO4 to pH <2/Cool~4C
B2KFW6	N	W	APR 10 2012	1105	3x500-mL G/P	9030_SULFIDE: Sulfide (1)	7 Days	ZnAc+NaOH to pH > 9/Cool~4C
B2KFW6	N	W	APR 10 2012	1105	1x20-mL P	Activity Scan	6 Months	None

AUGUST 2, 2012

REVISION 1

TestAmerica - St. Louis

Relinquished By (Print / Sign)	Date/Time	Received By (Print / Sign)	Date/Time
AL MCINTYRE / CHPRC	APR 10 2012 1335	SSU #1	APR 10 2012 1335
SSU #1	APR 11 2012 0830	DON BROTHERTON / CHPRC	APR 11 2012 0830
DON BROTHERTON / CHPRC	APR 11 2012 1400	FED EX	
Fed Ex		SWilson	4.12.12 0930

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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Print page | Close

FedEx

Detailed Results

Tracking no.: 798271635784 Select time format: **12H**

Delivered

Delivered
Signed for by: B.DANIELS

Shipment Dates	Destination
Ship date Apr 11, 2012	EARTH CITY, MO
Delivery date Apr 12, 2012 9:30 AM	Signature Proof of Delivery

Shipment Options

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

Shipment Facts

Service type	Priority Overnight	Delivered to	Shipping/Receiving
Weight	39.0 lbs/17.7 kg	Reference	GWS-229-1

Shipment Travel History

Select time zone: Local Scan Time

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

Date/Time	Activity	Location	Details
Apr 12, 2012 9:30 AM	**Delivered**	EARTH CITY, MO	
Apr 12, 2012 6:54 AM	On FedEx vehicle for delivery	EARTH CITY, MO	
Apr 12, 2012 6:47 AM	At local FedEx facility	EARTH CITY, MO	
Apr 12, 2012 5:14 AM	At destination sort facility	BERKELEY, MO	
Apr 12, 2012 4:29 AM	Departed FedEx location	MEMPHIS, TN	
Apr 12, 2012 12:59 AM	Arrived at FedEx location	MEMPHIS, TN	
Apr 11, 2012 5:07 PM	Left FedEx origin facility	PASCO, WA	
Apr 11, 2012 3:36 PM	Picked up	PASCO, WA	
Apr 11, 2012 11:27 AM	Shipment information sent to FedEx		

REVISION 1
AUGUST 2, 2012 TestAmerica - St. Louis

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Lot #(s): F2D120462, 464

CUR Form #: 4 8 7

CONDITION UPON RECEIPT FORM

Client: CHPRC

Quote No: 90229

COC/RFA No: below

Initiated By: [illegible] Date: 4.12.12 Time: 0930

Shipping Information

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

Shipping # (s):*

1. 7982 7163 5784
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____

Sample Temperature (s):**

1. 3
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: F12-020-020, 021
W12-004-170

due date per JA.

Corrective Action:

☐ Client Contact Name: _____ Informed by: _____

☐ Sample(s) processed "as is"

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

Project Management Review: Jayna Arvalt Date: 4/17/12

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 SL1265	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # W12-004-170
		Page 1 of 1

SDG #SL1265

Collector	AL MCINTYRE / CHPRC	**Contact/Requester**	Karen Waters-Husted	**Telephone No.**	376-4650
SAF No.	W12-004	**Sampling Origin**	Hanford Site	**Purchase Order/Charge Code**	300071ES20
Project Title	RCRA, APRIL 2012	**Logbook No.**	HNF-N-506 4415	**Ice Chest No.**	GWS-229-1
Shipped To (Lab)	TestAmerica St. Louis	**Method of Shipment**	Commercial Carrier	**Bill of Lading/Air Bill No.**	7982 7163 5784
Protocol	RCRA	**Priority:**	**45 Days**	**Offsite Property No.**	N/A

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	*	4-[illegible]-12	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B2L245	N	W	APR 1 2012	1105	1x20-mL P	Activity Scan	6 Months	None
B2L245	N	W	APR 10 2012	1105	4x40-mL aGs*	8260_VOA_GCMS: List-2 (26)	14 Days	HCl or H2SO4 to pH <2/Cool~4C

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
	AL MCINTYRE / CHPRC		APR 10 2012 1335		SSU #1		APR 10 2012
	SSU #1		APR 11 2012 0830		DON BROTHERTON / CHPRC		APR 11 2012 0830
	DON BROTHERTON / CHPRC		APR 11 2012 1400		FED EX		
	Fed Ex				S-Wilson		4-12-12 0930

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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AUGUST 2, 2012

REVISION 1

TestAmerica - St. Louis

Print page | Close

FedEx

Detailed Results

Tracking no.: 798271635784 Select time format: **12H**

Delivered

Delivered
Signed for by: B.DANIELS

Shipment Dates	Destination
Ship date Apr 11, 2012	EARTH CITY, MO
Delivery date Apr 12, 2012 9:30 AM	Signature Proof of Delivery

Shipment Options

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

Shipment Facts

Service type	Priority Overnight	Delivered to	Shipping/Receiving
Weight	39.0 lbs/17.7 kg	Reference	GWS-229-1

Shipment Travel History

Select time zone: Local Scan Time

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

Date/Time	Activity	Location	Details
Apr 12, 2012 9:30 AM	**Delivered**	EARTH CITY, MO	
Apr 12, 2012 6:54 AM	On FedEx vehicle for delivery	EARTH CITY, MO	
Apr 12, 2012 6:47 AM	At local FedEx facility	EARTH CITY, MO	
Apr 12, 2012 5:14 AM	At destination sort facility	BERKELEY, MO	
Apr 12, 2012 4:29 AM	Departed FedEx location	MEMPHIS, TN	
Apr 12, 2012 12:59 AM	Arrived at FedEx location	MEMPHIS, TN	
Apr 11, 2012 5:07 PM	Left FedEx origin facility	PASCO, WA	
Apr 11, 2012 3:36 PM	Picked up	PASCO, WA	
Apr 11, 2012 11:27 AM	Shipment information sent to FedEx		

REVISION 1

AUGUST 2, 2012

~~TestAmerica~~ - St. Louis

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Lot #(s): F2D120462, 464

CUR Form #: 4 8 7

CONDITION UPON RECEIPT FORM

Client: CHPRC

Quote No: 90229

COC/RFA No: below

Initiated By: [signature] Date: 4.12.12 Time: 0930

Shipping Information

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

Shipping # (s):*				Sample Temperature (s):**			
1.	7982 7163 5784	6.		1.	3	6.	
2.		7.		2.		7.	
3.		8.		3.		8.	
4.		9.		4.		9.	
5.		10.		5.		10.	

*Numbered shipping lines correspond to Numbered Sample Temp lines

**Sample must be received at 4°C ± 2°C- If not, note contents below. Temperature variance does NOT affect the following: Metals-Liquid; 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: ~~F12-020-020, 021~~ W12-004-170

due date per JA.

Corrective Action:

☐ Client Contact Name: _____ Informed by: _____

☐ Sample(s) processed "as is"

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

Project Management Review: [signature] Date: 4/16/12

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.

SDG #SL1265

CH2MHill Plateau Remediation Company CHR 385 SL1265	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # W12-004-171
		Page 1 of 1

Collector	FM Hall CHPRC	**Contact/Requester**	Karen Waters-Husted	**Telephone No.**	376-4650
SAF No.	W12-004	**Sampling Origin**	Hanford Site	**Purchase Order/Charge Code**	300071ES20
Project Title	RCRA, APRIL 2012	**Logbook No.**	HNF-N-506 45/74	**Ice Chest No.**	GWS-215
Shipped To (Lab)	TestAmerica St. Louis	**Method of Shipment**	Commercial Carrier	**Bill of Lading/Air Bill No.**	7934 4630 6690
Protocol	RCRA	**Priority:**	**45 Days**	**Offsite Property No.**	N/A

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
B2L246	N	W	4/11/12 ↓	1316 ↓	1x20-mL P	Activity Scan	6 Months	None
B2L246	N	W			4x40-mL aGs*	8260_VOA_GCMS: List-2 (26)	14 Days	HCl or H2SO4 to pH <2/Cool~4C

Relinquished By	Print / Sign	Date/Time	Received By	Print / Sign	Date/Time
FM Hall CHPRC		APR 11 2012 1515	SSU #1		APR 11 2012 1515
SSU #1		APR 12 2012 0760	KC Patterson CHPRC		APR 12 2012 0710
KC Patterson CHPRC		APR 12 2012 1500	FEDEX		
Fed Ex			NICHOLAS DOSTER		4/13/12 0930

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

PRINTED ON 3/20/2012

A-6004-842 (REV 2)

AUGUST 2, 2012

REVISION 1

TestAmerica - St. Louis

Print page | Close

FedEx

Detailed Results

Tracking no.: 793446306690 Select time format: **12H**

Delivered

Delivered
Signed for by: B.DANIELS

Shipment Dates	Destination
Ship date Apr 12, 2012	EARTH CITY, MO
Delivery date Apr 13, 2012 9:28 AM	Signature Proof of Delivery

Shipment Options

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

Shipment Facts

Service type	Priority Overnight	Delivered to	Shipping/Receiving
Weight	20.0 lbs/9.1 kg	Reference	GWS-215

Shipment Travel History

Select time zone: Local Scan Time

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

Date/Time	Activity	Location	Details
Apr 13, 2012 9:28 AM	**Delivered**	EARTH CITY, MO	
Apr 13, 2012 7:32 AM	On FedEx vehicle for delivery	EARTH CITY, MO	
Apr 13, 2012 7:25 AM	At local FedEx facility	EARTH CITY, MO	
Apr 13, 2012 5:41 AM	At destination sort facility	BERKELEY, MO	
Apr 13, 2012 4:45 AM	Departed FedEx location	MEMPHIS, TN	
Apr 13, 2012 12:42 AM	Arrived at FedEx location	MEMPHIS, TN	
Apr 12, 2012 5:05 PM	Left FedEx origin facility	PASCO, WA	
Apr 12, 2012 4:19 PM	Picked up	PASCO, WA	
Apr 12, 2012 11:23 AM	Shipment information sent to FedEx		

REVISION 1
AUGUST 2, 2012 TestAmerica - St. Louis

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Lot #(s): ~~F2D130428~~ F2D130430

CUR Form #: 3 8 5

CONDITION UPON RECEIPT FORM

Client: CHPRC

Quote No: 90029

COC/RFA No: I12-020-022 / W12-004-171

Initiated By: NVO Date: 4/13/12 Time: 0930

Shipping Information

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

Shipping # (s):*				Sample Temperature (s):**			
1.	7934 4630 6690	6.		1.	2	6.	
2.		7.		2.		7.	
3.		8.		3.		8.	
4.		9.		4.		9.	
5.		10.		5.		10.	

*Numbered shipping lines correspond to Numbered Sample Temp lines

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

Corrective Action:

☐ Client Contact Name: _____ Informed by: _____

☐ Sample(s) processed "as is"

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

Project Management Review: Jayna Ewalt Date: 4/17/12

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.

SDG #SL1265

CH2MHill Plateau Remediation Company CWC 385 SL1265

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # I12-020-022

Page 1 of 1

Collector	FM Hall CHPRC	**Contact/Requester**	Karen Waters-Husted	**Telephone No.**	376-4650
SAF No.	I12-020	**Sampling Origin**	Hanford Site	**Purchase Order/Charge Code**	300071ES20
Project Title	2ZP1, APRIL 2012	**Logbook No.**	HNF-N-506 45174	**Ice Chest No.**	GWS-215
Shipped To (Lab)	TestAmerica St. Louis	**Method of Shipment**	Commercial Carrier	**Bill of Lading/Air Bill No.**	7934 4630 6690
Protocol	CERCLA	**Priority:**	45 Days	**Offsite Property No.**	N/A

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**

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

Total Activity Exemption: Yes ☑ No ☐

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B2KFX5	N	W	4/11/12	1316	4x40-mL aGs*	8260_VOA_GCMS: List-2 (55)	14 Days	HCl or H2SO4 to pH <2/Cool~4C
B2KFX5	N	W	↓	↓	3x500-mL G/P	9030_SULFIDE: Sulfide (1)	7 Days	ZnAc+NaOH to pH > 9/Cool~4C
B2KFX5	N	W	↓	↓	1x20-mL P	Activity Scan	6 Months	None

Relinquished By: FM Hall CHPRC — Print / Sign — Date/Time 1515 APR 11 2012	Received By: SSU #1 — Print / Sign — Date/Time 1515 APR 11 2012	Matrix *	
Relinquished By: SSU #1 — Date/Time APR 12 2012 0710	Received By: KC Patterson CHPRC — Date/Time APR 12 2012 0710	S = Soil; SE = Sediment; SO = Solid; SL = Sludge; W = Water; O = Oil; A = Air	DS = Drum Solids; DL = Drum Liquids; T = Tissue; WI = Wipe; L = Liquid; V = Vegetation; X = Other
Relinquished By: KC Patterson CHPRC — Date/Time APR 12 2012 1500	Received By: FEDEX — Date/Time		
Relinquished By: Fed Ex — Date/Time	Received By: NICHOLAS OWENS — Date/Time 4/13/12 0930		
FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time

PRINTED ON 3/5/2012

A-6004-842 (REV 2)

AUGUST 2, 2012

REVISION 1

TestAmerica - St. Louis

Print page | Close

FedEx

Detailed Results

Tracking no.: 793446306690 Select time format: **12H**

Delivered

Delivered
Signed for by: B.DANIELS

Shipment Dates	Destination
Ship date Apr 12, 2012	EARTH CITY, MO
Delivery date Apr 13, 2012 9:28 AM	Signature Proof of Delivery

Shipment Options

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

Shipment Facts

Service type	Priority Overnight	Delivered to	Shipping/Receiving
Weight	20.0 lbs/9.1 kg	Reference	GWS-215

Shipment Travel History

Select time zone: Local Scan Time

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

Date/Time	Activity	Location	Details
Apr 13, 2012 9:28 AM	**Delivered**	EARTH CITY, MO	
Apr 13, 2012 7:32 AM	On FedEx vehicle for delivery	EARTH CITY, MO	
Apr 13, 2012 7:25 AM	At local FedEx facility	EARTH CITY, MO	
Apr 13, 2012 5:41 AM	At destination sort facility	BERKELEY, MO	
Apr 13, 2012 4:45 AM	Departed FedEx location	MEMPHIS, TN	
Apr 13, 2012 12:42 AM	Arrived at FedEx location	MEMPHIS, TN	
Apr 12, 2012 5:05 PM	Left FedEx origin facility	PASCO, WA	
Apr 12, 2012 4:19 PM	Picked up	PASCO, WA	
Apr 12, 2012 11:23 AM	Shipment information sent to FedEx		

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CUR Form #: 3 8 5

Lot #(s): F2D130428
F2D130430

CONDITION UPON RECEIPT FORM

Client: CHPRC

Quote No: 90029

COC/RFA No: I12-020-022 / W12-004-171

Initiated By: WO Date: 4/13/12 Time: 0930

Shipping Information

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

Shipping # (s):*

1. 7934 4630 6690
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____

Sample Temperature (s):**

1. 2
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:

Corrective Action:

☐ Client Contact Name: _____ Informed by: _____

☐ Sample(s) processed "as is"

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

Project Management Review: Layna Awalt Date: 4/17/12

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.

SDG #SL1265

CH2MHill Plateau Remediation Company

SL1265

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # I12-016-038

Page 1 of 1

Collector	DJ Sparks CHPRC	**Contact/Requester**	Karen Waters-Husted	**Telephone No.**	376-4650
SAF No.	I12-016	**Sampling Origin**	Hanford Site	**Purchase Order/Charge Code**	300071ES20
Project Title	100NR2, MARCH 2012	**Logbook No.**	HNF-N-506 44 / 53	**Ice Chest No.**	GW5 103
Shipped To (Lab)	TestAmerica St. Louis	**Method of Shipment**	Commercial Carrier	**Bill of Lading/Air Bill No.**	7934 5755 3416
Protocol	CERCLA	**Priority:**	30 Days **PRIORITY**	**Offsite Property No.**	N/A

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)

*Unable to achieve ø head space on VOAs

SPECIAL INSTRUCTIONS **Hold Time**

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

Total Activity Exemption: Yes ☑ No ☐

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B2KFF2	N	W	4.13.12	1245	2x1-L aG	8081_PEST_GC: List-1 (19)	14/40 Days	Cool<6C
B2KFF2	N	W	↓	↓	*4x40-mL aGs*	8260_VOA_GCMS: List-2 (55)	14 Days	HCl or H2SO4 to pH <2/Cool~4C
B2KFF2	N	W			3x1-L aG	8270_SVOA_GCMS_IX: List-1 (123)	7/40 Days	Cool~4C
B2KFF2	N	W			2x1-L aG	8310_SVOA_HPLC	14/40 Days	Cool~4C
B2KFF2	N	W	↓	↓	1x20-mL P	Activity Scan	6 Months	None

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
DJ Sparks CHPRC			APR 13 2012 1400	SSLI#1			APR 13 2012 1400
SSLI#1			APR 16 2012 0800	KC Patterson			APR 16 2012 0800
KC Patterson CHPRC			APR 16 2012 1500	FEDEX			Date/Time
FED EX			Date/Time	S Wilson			4.17.12 1020

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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FedEx

Detailed Results

Tracking no.: 793457553416 Select time format: **12H**

Delivered

Delivered
Signed for by: B.DANIELS

Shipment Dates	Destination
Ship date Apr 16, 2012	EARTH CITY, MO
Delivery date Apr 17, 2012 10:23 AM	Signature Proof of Delivery

Shipment Options

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

Shipment Facts

Service type	Priority Overnight	Delivered to	Shipping/Receiving
Weight	50.0 lbs/22.7 kg	Reference	GWS-103

Shipment Travel History

Select time zone: Local Scan Time

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

Date/Time	Activity	Location	Details
Apr 17, 2012 10:23 AM	**Delivered**	EARTH CITY, MO	
Apr 17, 2012 7:05 AM	On FedEx vehicle for delivery	EARTH CITY, MO	
Apr 17, 2012 6:59 AM	At local FedEx facility	EARTH CITY, MO	
Apr 17, 2012 5:10 AM	At destination sort facility	BERKELEY, MO	
Apr 17, 2012 4:30 AM	Departed FedEx location	MEMPHIS, TN	
Apr 17, 2012 12:39 AM	Arrived at FedEx location	MEMPHIS, TN	
Apr 16, 2012 5:15 PM	Left FedEx origin facility	PASCO, WA	
Apr 16, 2012 4:06 PM	Picked up	PASCO, WA	
Apr 16, 2012 12:13 PM	Shipment information sent to FedEx		

REVISION 1

AUGUST 2, 2012 TestAmerica - St. Louis

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CUR Form #: 0 1 8

Lot #(s): 240-170439
441
442

CONDITION UPON RECEIPT FORM

Client: CHPG

Quote No: 90029

COC/RFA No: see below

Initiated By: SW Date: 4.17.12 Time: 1020

Shipping Information

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

Shipping # (s):*				Sample Temperature (s):**			
1.	7982 8805 3896	6.		1.	2	6.	
2.	8809 3845	7.		2.	2	7.	
3.	7934 5789 1645	8.		3.	2	8.	
4.	6755 3446	9.		4.	3	9.	
5.		10.		5.		10.	

*Numbered shipping lines correspond to Numbered Sample Temp lines

**Sample must be received at 4°C ± 2°C- If not, note contents below. Temperature variance does NOT affect the following: Metals-Liquid; 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: W12-004-042, 044, 037, 043, 036, 049, 045, 048, 034, 040, 041, 172
J12-016-038
W12-003-086

Corrective Action:

☐ Client Contact Name: _____ Informed by: _____

☐ Sample(s) processed "as is"

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

Project Management Review: CMS Date: 04-20-12

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.

SDG #SL1265

CH2MHill Plateau Remediation Company

SL1265

cw 18

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # W12-003-086

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Collector	DJ Sparks CHPHC	**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 44 / 52	**Ice Chest No.**	GWS 289
Shipped To (Lab)	TestAmerica St. Louis	**Method of Shipment**	Commercial Carrier	**Bill of Lading/Air Bill No.**	7934 5759 1685
Protocol	RCRA	**Priority:**	**45 Days**	**Offsite Property No.**	N/A

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)

* Due to aeration in the well unable to achieve 6 head space on VOAs.

SPECIAL INSTRUCTIONS **Hold Time**

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

Total Activity Exemption: Yes ☑ No ☐

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B2K4B7	N	W	4 13 12	0830	4x40-mL aGs*	8260_VOA_GCMS: List-3 (56)	14 Days	HCl or H2SO4 to pH <2/Cool~4C
B2K4B7	N	W	↓	↓	1x20-mL P	Activity Scan	6 Months	None

Relinquished By: DJ Sparks CHPHC	Print / Sign	Date/Time: APR 13 2012 1400	Received By: SSL#1	Print / Sign	Date/Time: APR 13 2012 1400
Relinquished By: SSL#1		Date/Time: APR 16 2012 0800	Received By: KC Patterson CHPRC		Date/Time: APR 16 2012 0800
Relinquished By: KC Patterson CHPRC		Date/Time: APR 16 2012 1520	Received By: FEDEX		Date/Time:
Relinquished By: FED EX		Date/Time:	Received By: SWilson		Date/Time: 4.17.12 1020

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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AUGUST 2, 2012

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FedEx

Detailed Results

Tracking no.: 793457591645 Select time format: **12H**

Delivered

Delivered
Signed for by: B.DANIELS

Shipment Dates	Destination
Ship date Apr 16, 2012	EARTH CITY, MO
Delivery date Apr 17, 2012 10:23 AM	Signature Proof of Delivery

Shipment Options

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

Shipment Facts

Service type	Priority Overnight	Delivered to	Shipping/Receiving
Weight	76.0 lbs/34.5 kg	Reference	GWS-289

Shipment Travel History

Select time zone: Local Scan Time

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

Date/Time	Activity	Location	Details
Apr 17, 2012 10:23 AM	**Delivered**	EARTH CITY, MO	
Apr 17, 2012 7:08 AM	On FedEx vehicle for delivery	EARTH CITY, MO	
Apr 17, 2012 7:02 AM	At local FedEx facility	EARTH CITY, MO	
Apr 17, 2012 5:10 AM	At destination sort facility	BERKELEY, MO	
Apr 17, 2012 4:30 AM	Departed FedEx location	MEMPHIS, TN	
Apr 17, 2012 12:39 AM	Arrived at FedEx location	MEMPHIS, TN	
Apr 16, 2012 5:15 PM	Left FedEx origin facility	PASCO, WA	
Apr 16, 2012 4:06 PM	Picked up	PASCO, WA	
Apr 16, 2012 12:18 PM	Shipment information sent to FedEx		

REVISION 1

AUGUST 2, 2012

TestAmerica - St. Louis

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THE LEADER IN ENVIRONMENTAL TESTING

CUR Form #: 0 1 8

Lot #(s): 170439, 441, 442

CONDITION UPON RECEIPT FORM

Client: CHPRC

Quote No: 90029

COC/RFA No: see below

Initiated By: SW Date: 4.17.12 Time: 1020

Shipping Information

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

Shipping # (s):*						Sample Temperature (s):**					
1.	7982	8805	3896	6.		1.	2	6.			
2.		8809	3845	7.		2.	2	7.			
3.	7934	5739	1645	8.		3.	2	8.			
4.		6755	3416	9.		4.	3	9.			
5.				10.		5.		10.			

*Numbered shipping lines correspond to Numbered Sample Temp lines

**Sample must be received at 4°C ± 2°C- If not, note contents below. Temperature variance does NOT affect the following: Metals-Liquid; 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: W12-004-042, 044, 037, 043, 036, 049, 045, 048, 034, 040, 041, 172
T12-016-038
W12-003-086

Corrective Action:

☐ Client Contact Name: _____ Informed by: _____

☐ Sample(s) processed "as is"

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

Project Management Review: K. Richardson Date: 4/18/12

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.

SDG #SL1265

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # W12-004-042
SL1265 cwc 0/16		Page 1 of 1

Collector	KC Patterson CHPRC	**Contact/Requester**	Karen Waters-Husted	**Telephone No.**	376-4650
SAF No.	W12-004	**Sampling Origin**	Hanford Site	**Purchase Order/Charge Code**	300071ES20
Project Title	RCRA, APRIL 2012	**Logbook No.**	HNF-N-506 47 / 51	**Ice Chest No.**	6WS-192
Shipped To (Lab)	TestAmerica St. Louis	**Method of Shipment**	Commercial Carrier	**Bill of Lading/Air Bill No.**	7982 8805 3896
Protocol	RCRA	**Priority:**	45 Days	**Offsite Property No.**	

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
B2KK55	N	W	4/13/12	1051	3x1-L aG	8040_PHENOLIC_GC: List-1 (17)	7/40 Days	Na2S2O3/Cool~4C
B2KK55	N	W	↓	↓	1x20-mL P	Activity Scan	6 Months	None

Relinquished By	Print / Sign	Date/Time	Received By	Print / Sign	Date/Time
KC Patterson CHPRC		APR 13 2012 1325			APR 13 2012 1325
		APR 16 2012 0800	KC Patterson CHPRC		APR 16 2012 0800
KC Patterson CHPRC		APR 16 2012 1500	FEDEX		
FEDEX			SWilson		4-17-12 1020

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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AUGUST 2, 2012

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CH2MHill Plateau Remediation Company SL1265	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # W12-004-044 Page 1 of 1

SDG #SL1265

Collector	DJ Sparks CHPRC	**Contact/Requester**	Karen Waters-Husted	**Telephone No.**	376-4650
SAF No.	W12-004	**Sampling Origin**	Hanford Site	**Purchase Order/Charge Code**	300071ES20
Project Title	RCRA, APRIL 2012	**Logbook No.**	HNF-N-506 45176	**Ice Chest No.**	6W5-192
Shipped To (Lab)	TestAmerica St. Louis	**Method of Shipment**	Commercial Carrier	**Bill of Lading/Air Bill No.**	7982 8805 3856
Protocol	RCRA	**Priority:**	45 Days	**Offsite Property No.**	N/A

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**

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

Total Activity Exemption: Yes ☑ No ☐

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B2KK67	N	W	4-12-12	0929	3x1-L aG	8040_PHENOLIC_GC: List-1 (17)	7/40 Days	Na2S2O3/Cool~4C
B2KK67	N	W	↓	↓	1x20-mL P	Activity Scan	6 Months	None

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
DJ Sparks CHPRC			APR 12 2012 1400	SSL-1			APR 12 2012 1400
SSL-1			APR 16 2012 0800	KC Patterson CHPRC			APR 16 2012 1500
KC Patterson CHPRC			APR 16 2012 1500	FEDEX			
FED EX				SWilson			4.17.12 1020

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

PRINTED ON 3/5/2012

A-6004-842 (REV 2)

AUGUST 2, 2012

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CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # W12-004-037
SL1265		Page 1 of 1

SDG #SL1265

Collector	AL MCINTYRE / CHPRC	**Contact/Requester**	Karen Waters-Husted	**Telephone No.**	376-4650
SAF No.	W12-004	**Sampling Origin**	Hanford Site	**Purchase Order/Charge Code**	300071ES20
Project Title	RCRA, APRIL 2012	**Logbook No.**	HNF-N-506 47150	**Ice Chest No.**	6WS-192
Shipped To (Lab)	TestAmerica St. Louis	**Method of Shipment**	Commercial Carrier	**Bill of Lading/Air Bill No.**	7982 5505 3896
Protocol	RCRA	**Priority:**	45 Days	**Offsite Property No.**	N/A

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
B2KK17	N	W	4/12/12	0951	3x1-L aG	8040_PHENOLIC_GC: List-1 (17)	7/40 Days	Na2S2O3/Cool~4C
B2KK17	N	W	↓	↓	1x20-mL P	Activity Scan	6 Months	None

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
AL MCINTYRE / CHPRC			APR 12 2012 1520	SSU #1			APR 12 2012 1520
SSU #1			APR 16 2012 0800	KC Patterson	CHPRC		APR 16 2012 0800
KC Patterson	CHPRC		APR 16 2012 1508	FEDEX			
FED EX				SWilson			4.17.12 1020

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

PRINTED ON 3/5/2012

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AUGUST 2, 2012

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SDG #SL1265

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # W12-004-036
SL1265		Page 1 of 1

Collector	FM Hall CHPRC	**Contact/Requester**	Karen Waters-Husted	**Telephone No.**	376-4650
SAF No.	W12-004	**Sampling Origin**	Hanford Site	**Purchase Order/Charge Code**	300071ES20
Project Title	RCRA, APRIL 2012	**Logbook No.**	HNF-N-506 45/77	**Ice Chest No.**	GWS 238
Shipped To (Lab)	TestAmerica St. Louis	**Method of Shipment**	Commercial Carrier	**Bill of Lading/Air Bill No.**	7982 8809 5845
Protocol	RCRA	**Priority:**	**45 Days**	**Offsite Property No.**	N/A

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
B2KK12	N	W	4/13/12 ↓	0813 ↓	3x1-L aG	8040_PHENOLIC_GC: List-1 (17)	7/40 Days	Na2S2O3/Cool~4C
B2KK12	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			APR 13 2012 1500	SSU #1			APR 13 2012 1500
SSU #1			APR 16 2012 0800	KC Patterson CHPRC			APR 16 2012 1050
KC Patterson CHPRC			APR 16 2012 1500	FEDEX			Date/Time
FED EX			Date/Time	SWilson			4-17-12 1020

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

PRINTED ON 3/5/2012

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SDG #SL1265

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # W12-004-049
SL1265 DJ Sparks CHPHC		Page 1 of 1

Collector	DJ Sparks CHPHC	**Contact/Requester**	Karen Waters-Husted	**Telephone No.**	376-4650
SAF No.	W12-004	**Sampling Origin**	Hanford Site	**Purchase Order/Charge Code**	300071ES20
Project Title	RCRA, APRIL 2012	**Logbook No.**	HNF-N-506 44 /52	**Ice Chest No.**	CW3 238
Shipped To (Lab)	TestAmerica St. Louis	**Method of Shipment**	Commercial Carrier	**Bill of Lading/Air Bill No.**	7987 8806 3845
Protocol	RCRA	**Priority:**	**45 Days**	**Offsite Property No.**	N/A

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**

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

Total Activity Exemption: Yes ☑ No ☐

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B2KKH1	N	W	4.13.12	0942	3x1-L aG	8040_PHENOLIC_GC: List-1 (17)	7/40 Days	Na2S2O3/Cool~4C
B2KKH1	N	W	↓	↓	1x20-mL P	Activity Scan	6 Months	None

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
DJ Sparks CHPHC			APR 13 2012 1400	SSL#1			APR 13 2012 1400
SSL#1			APR 16 2012 0800	KC Patterson CHPRC			APR 16 2012 0800
KC Patterson CHPRC			APR 16 2012 1500	FEDEX			
FED EX				SWilson			4.17.12 1020

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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CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # W12-004-045
SL1265 FM Hall		Page 1 of 1

Collector	CHPRC	**Contact/Requester**	Karen Waters-Husted	**Telephone No.**	376-4650
SAF No.	W12-004	**Sampling Origin**	Hanford Site	**Purchase Order/Charge Code**	300071ES20
Project Title	RCRA, APRIL 2012	**Logbook No.**	HNF-N-506 45/77	**Ice Chest No.**	GWS 238
Shipped To (Lab)	TestAmerica St. Louis	**Method of Shipment**	Commercial Carrier	**Bill of Lading/Air Bill No.**	7952 8809 3545
Protocol	RCRA	**Priority:**	**45 Days**	**Offsite Property No.**	N/A

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**

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

Total Activity Exemption: Yes ☑ No ☐

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B2KK82	N	W	4/13/12	1209	3x1-L aG	8040_PHENOLIC_GC: List-1 (17)	7/40 Days	Na2S2O3/Cool~4C
B2KK82	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			APR 13 2012 1500	SSU #1			APR 13 2012 1500
SSU #1			APR 16 2012 0840	KC Patterson CHPRC			APR 16 2012 0840
KC Patterson CHPRC			APR 16 2012 1500	FEDEX			Date/Time
FED EX			Date/Time	SWilson			4.17.12 1020

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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CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # W12-004-048

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SDG #SL1265

Collector DJ Sparks CHPHC		**Contact/Requester**	Karen Waters-Husted	**Telephone No.**	376-4650
SAF No.	W12-004	**Sampling Origin**	Hanford Site	**Purchase Order/Charge Code**	300071ES20
Project Title	RCRA, APRIL 2012	**Logbook No.**	HNF-N-506 44/52	**Ice Chest No.**	GWS 238
Shipped To (Lab)	TestAmerica St. Louis	**Method of Shipment**	Commercial Carrier	**Bill of Lading/Air Bill No.**	7782 5809 3845
Protocol	RCRA	**Priority:**	**45 Days**	**Offsite Property No.**	N/A

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**

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

Total Activity Exemption: Yes ☑ No ☐

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B2KKH0	N	W	4.13.12	0942	3x1-L aG	8040_PHENOLIC_GC: List-1 (17)	7/40 Days	Na2S2O3/Cool~4C
B2KKH0	N	W	↓	↓	1x20-mL P	Activity Scan	6 Months	None

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Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
DJ Sparks CHPHC			APR 13 2012 1400	SSL#1			APR 13 2012 1400
SSL#1			APR 16 2012 0800	KC Patterson CHPRC			APR 16 2012 0800
KC Patterson CHPRC			APR 16 2012 1500	FEDEX			Date/Time
FED EX			Date/Time	SWilson			4.17.12 1020

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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CH2MHill Plateau Remediation Company

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CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **W12-004-043**

Collector	KC Patterson CHPRC	**Contact/Requester**	Karen Waters-Husted	**Telephone No.**	376-4650
SAF No.	W12-004	**Sampling Origin**	Hanford Site	**Purchase Order/Charge Code**	300071ES20
Project Title	RCRA, APRIL 2012	**Logbook No.**	HNF-N-506 47/51	**Ice Chest No.**	0405 289
Shipped To (Lab)	TestAmerica St. Louis	**Method of Shipment**	Commercial Carrier	**Bill of Lading/Air Bill No.**	7934 5759 1685
Protocol	RCRA	**Priority:**	**45 Days**	**Offsite Property No.**	N/A

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**

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

Total Activity Exemption: Yes ☑ No ☐

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B2KK60	N	W	4/13/12	0912	3x1-L aG	8040_PHENOLIC_GC: List-1 (17)	7/40 Days	Na2S2O3/Cool~4C
B2KK60	N	W	↓	↓	1x20-mL P	Activity Scan	6 Months	None

Relinquished By	Print / Sign	Date/Time	Received By	Print / Sign	Date/Time
KC Patterson CHPRC	KC Patterson CHPRC	APR 13 2012 1325			APR 13 2012 1325
		APR 16 2012 0800	KC Patterson CHPRC	KC Patterson CHPRC	APR 16 2012 0800
KC Patterson CHPRC	KC Patterson CHPRC	APR 16 2012 1500	FEDEX		
FED EX			J Wilson		4.17.12 1020

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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CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # W12-004-034
SL1265		Page 1 of 1

Collector	AL MCINTYRE / CHPRC	**Contact/Requester**	Karen Waters-Husted	**Telephone No.**	376-4650
SAF No.	W12-004	**Sampling Origin**	Hanford Site	**Purchase Order/Charge Code**	300071ES20
Project Title	RCRA, APRIL 2012	**Logbook No.**	HNF-N-506 47/50	**Ice Chest No.**	GW5 289
Shipped To (Lab)	TestAmerica St. Louis	**Method of Shipment**	Commercial Carrier	**Bill of Lading/Air Bill No.**	7934 5759 1685
Protocol	RCRA	**Priority:**	**45 Days**	**Offsite Property No.**	

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
B2KK02	N	W	4/12/12	1417	3x1-L aG	8040_PHENOLIC_GC: List-1 (17)	7/40 Days	Na2S2O3/Cool~4C
B2KK02	N	W	↓	↓	1x20-mL P	Activity Scan	6 Months	None

Relinquished By (Print / Sign)	Date/Time	Received By (Print / Sign)	Date/Time
AL MCINTYRE / CHPRC	APR 12 2012 1520	SSUTI	APR 12 2012 1520
SSUTI	APR 16 2012 0800	KC Patterson CHPRC	APR 16 2012 0800
KC Patterson CHPRC	APR 16 2012 1500	FEDEX	
FED EX		SWilson	4.17.12 1020

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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CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # W12-004-040
SL1265		Page 1 of 1

Collector	FM Hall CHPRC	**Contact/Requester**	Karen Waters-Husted	**Telephone No.**	376-4650
SAF No.	W12-004	**Sampling Origin**	Hanford Site	**Purchase Order/Charge Code**	300071ES20
Project Title	RCRA, APRIL 2012	**Logbook No.**	HNF-N-506 45177	**Ice Chest No.**	GWS 285
Shipped To (Lab)	TestAmerica St. Louis	**Method of Shipment**	Commercial Carrier	**Bill of Lading/Air Bill No.**	7934 5755 1645
Protocol	RCRA	**Priority:**	**45 Days**	**Offsite Property No.**	N/A

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
B2KK34	N	W	4/13/12	0856	3x1-L aG	8040_PHENOLIC_GC: List-1 (17)	7/40 Days	Na2S2O3/Cool~4C
B2KK34	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			APR 13 2012 1500	SSW #1			APR 13 2012 1500
SSW #1			APR 16 2012 0800	KC Patterson CHPRC			APR 16 2012 1500
KC Patterson CHPRC			APR 16 2012 1500	FEDEX			Date/Time
FED EX			Date/Time	SWilson			4.17.12 1020

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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CH2MHill Plateau Remediation Company

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CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # W12-004-041

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Collector	FM Hall CHPRC	**Contact/Requester**	Karen Waters-Husted	**Telephone No.**	376-4650
SAF No.	W12-004	**Sampling Origin**	Hanford Site	**Purchase Order/Charge Code**	300071ES20
Project Title	RCRA, APRIL 2012	**Logbook No.**	HNF-N-506 45/77	**Ice Chest No.**	GW5 287
Shipped To (Lab)	TestAmerica St. Louis	**Method of Shipment**	Commercial Carrier	**Bill of Lading/Air Bill No.**	~~7934~~ 5759 1695
Protocol	RCRA	**Priority:**	**45 Days**	**Offsite Property No.**	N/A

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**

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

Total Activity Exemption: Yes ☑ No ☐

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B2KK39	N	W	4/13/12	0946	3x1-L aG	8040_PHENOLIC_GC: List-1 (17)	7/40 Days	Na2S2O3/Cool~4C
B2KK39	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		APR 13 2012 1500	SSU #1		APR 13 2012 1500
SSU #1		APR 16 2012 0800	KC Patterson CHPRC		APR 16 2012 0800
KC Patterson CHPRC		APR 16 2012 1500	FEDEX		
FED EX			SWilson		4.17.12 1020

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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SDG #SL1265

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # W12-004-172
SL1265		Page 1 of 1

Collector	DJ Sparks CHPHC	**Contact/Requester**	Karen Waters-Husted	**Telephone No.**	376-4650
SAF No.	W12-004	**Sampling Origin**	Hanford Site	**Purchase Order/Charge Code**	300071ES20
Project Title	RCRA, APRIL 2012	**Logbook No.**	HNF-N-506 44 152	**Ice Chest No.**	GWS 289
Shipped To (Lab)	TestAmerica St. Louis	**Method of Shipment**	Commercial Carrier	**Bill of Lading/Air Bill No.**	7934 5759 1645
Protocol	RCRA	**Priority:**	**45 Days**	**Offsite Property No.**	N/A

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**

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

Total Activity Exemption: Yes ☑ No ☐

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B2L247	N	W	4.13.12	0830	1x20-mL P	Activity Scan	6 Months	None
B2L247	N	W	↓	↓	4x40-mL aGs*	8260_VOA_GCMS: List-2 (26)	14 Days	HCl or H2SO4 to pH <2/Cool~4C

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
DJ Sparks CHPHC			APR 13 2012 1400	SL1#1			APR 13 2012 1400
SL1#1			APR 16 2012 0800	KC Patterson CHPRC			APR 16 2012 0800
KC Patterson CHPRC			APR 16 2012 1500	FEDEX			
FED EX				SWilson			4-17-12 1020

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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FedEx

Detailed Results

Tracking no.: 798288053896 Select time format: **12H**

Delivered

Delivered
Signed for by: B.DANIELS

Shipment Dates	Destination
Ship date Apr 16, 2012	EARTH CITY, MO
Delivery date Apr 17, 2012 10:23 AM	Signature Proof of Delivery

Shipment Options

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

Shipment Facts

Service type	Priority Overnight	Delivered to	Shipping/Receiving
Weight	67.0 lbs/30.4 kg	Reference	GWS-192

Shipment Travel History

Select time zone: Local Scan Time

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

Date/Time	Activity	Location	Details
Apr 17, 2012 10:23 AM	**Delivered**	EARTH CITY, MO	
Apr 17, 2012 7:06 AM	On FedEx vehicle for delivery	EARTH CITY, MO	
Apr 17, 2012 7:01 AM	At local FedEx facility	EARTH CITY, MO	
Apr 17, 2012 5:10 AM	At destination sort facility	BERKELEY, MO	
Apr 17, 2012 4:30 AM	Departed FedEx location	MEMPHIS, TN	
Apr 17, 2012 12:39 AM	Arrived at FedEx location	MEMPHIS, TN	
Apr 16, 2012 5:15 PM	Left FedEx origin facility	PASCO, WA	
Apr 16, 2012 4:06 PM	Picked up	PASCO, WA	
Apr 16, 2012 12:11 PM	Shipment information sent to FedEx		

Print page | Close

FedEx

Detailed Results

Tracking no.: 798288093845 Select time format: **12H**

Delivered

Delivered
Signed for by: B.DANIELS

Shipment Dates	Destination
Ship date Apr 16, 2012	EARTH CITY, MO
Delivery date Apr 17, 2012 10:23 AM	Signature Proof of Delivery

Shipment Options

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

Shipment Facts

Service type	Priority Overnight	Delivered to	Shipping/Receiving
Weight	70.0 lbs/31.8 kg	Reference	GWS-238

Shipment Travel History

Select time zone: Local Scan Time

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

Date/Time	Activity	Location	Details
Apr 17, 2012 10:23 AM	**Delivered**	EARTH CITY, MO	
Apr 17, 2012 7:11 AM	On FedEx vehicle for delivery	EARTH CITY, MO	
Apr 17, 2012 7:05 AM	At local FedEx facility	EARTH CITY, MO	
Apr 17, 2012 5:10 AM	At destination sort facility	BERKELEY, MO	
Apr 17, 2012 4:30 AM	Departed FedEx location	MEMPHIS, TN	
Apr 17, 2012 12:39 AM	Arrived at FedEx location	MEMPHIS, TN	
Apr 16, 2012 5:15 PM	Left FedEx origin facility	PASCO, WA	
Apr 16, 2012 4:06 PM	Picked up	PASCO, WA	
Apr 16, 2012 12:17 PM	Shipment information sent to FedEx		

Print page | Close

FedEx

Detailed Results

Tracking no.: 793457591645 Select time format: **12H**

Delivered

Delivered
Signed for by: B.DANIELS

Shipment Dates	Destination
Ship date Apr 16, 2012	EARTH CITY, MO
Delivery date Apr 17, 2012 10:23 AM	Signature Proof of Delivery

Shipment Options

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

Shipment Facts

Service type	Priority Overnight	Delivered to	Shipping/Receiving
Weight	76.0 lbs/34.5 kg	Reference	GWS-289

Shipment Travel History

Select time zone: Local Scan Time

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

Date/Time	Activity	Location	Details
Apr 17, 2012 10:23 AM	**Delivered**	EARTH CITY, MO	
Apr 17, 2012 7:08 AM	On FedEx vehicle for delivery	EARTH CITY, MO	
Apr 17, 2012 7:02 AM	At local FedEx facility	EARTH CITY, MO	
Apr 17, 2012 5:10 AM	At destination sort facility	BERKELEY, MO	
Apr 17, 2012 4:30 AM	Departed FedEx location	MEMPHIS, TN	
Apr 17, 2012 12:39 AM	Arrived at FedEx location	MEMPHIS, TN	
Apr 16, 2012 5:15 PM	Left FedEx origin facility	PASCO, WA	
Apr 16, 2012 4:06 PM	Picked up	PASCO, WA	
Apr 16, 2012 12:18 PM	Shipment information sent to FedEx		

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CUR Form #: 0 1 8

Lot #(s): 170439, 441, 442

CONDITION UPON RECEIPT FORM

Client: CHPRC
Quote No: 90029
COC/RFA No: SW below
Initiated By: SW Date: 4.17.12 Time: 1020

Shipping Information

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

Shipping # (s):*				Sample Temperature (s):**			
1.	7982 8805 3896	6.		1.	2	6.	
2.	8809 3845	7.		2.	2	7.	
3.	7934 5759 1645	8.		3.	2	8.	
4.	5755 3446	9.		4.	3	9.	
5.		10.		5.		10.	

*Numbered shipping lines correspond to Numbered Sample Temp lines

**Sample must be received at 4°C ± 2°C- If not, note contents below. Temperature variance does NOT affect the following: Metals-Liquid; 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: W12-004-042, 044, 037, 043, 036, 049, 045, 048, 034, 040, 041, 172
F12-016-038
W12-003-086

Corrective Action:
☐ Client Contact Name: _____ Informed by: _____
☐ Sample(s) processed "as is"
☐ Sample(s) on hold until: _____ If released, notify: _____
Project Management Review: MS Date: 4-20-12

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.

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CH2MHill Plateau Remediation Company CUR 389 SL1265

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # W12-004-140

Page 1 of 1

Collector	L.D. Wall CHPRC	**Contact/Requester**	Karen Waters-Husted	**Telephone No.**	376-4650
SAF No.	W12-004	**Sampling Origin**	Hanford Site	**Purchase Order/Charge Code**	300071ES20
Project Title	RCRA, APRIL 2012	**Logbook No.**	HNF-N-506 45180	**Ice Chest No.**	GWS 155
Shipped To (Lab)	TestAmerica St. Louis	**Method of Shipment**	Commercial Carrier	**Bill of Lading/Air Bill No.**	7982 9431 9162
Protocol	RCRA	**Priority:**	**45 Days**	**Offsite Property No.**	N/A

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
B2KL30	N	W	APR 16 2012	0940	3x1-L aG	8270_SVOA_GCMS: 1,4 Dioxane (1)	7/40 Days	Cool~4C
B2KL30	N	W	↓	↓	1x20-mL P	Activity Scan	6 Months	None

APR 16 2012 1400

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
L.D. Wall CHPRC	L.D. Wall		~~APR 16 2012~~		S Sumi		APR 16 2012 1400
Relinquished By			4-17-12 Date/Time 1030	Received By	R Ellingsworth		4-17-12 Date/Time 1030
Relinquished By	R Ellingsworth		4-17-12 Date/Time 1400	Received By	Fed EX		Date/Time
Relinquished By	FED EX		Date/Time	Received By	NICHOLAS OWENS		4/18/12 Date/Time 1020

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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SDG #SL1265

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # W12-004-142
SL1265		Page 1 of 1

Collector	L.D. Wall CHPRC	**Contact/Requester**	Karen Waters-Husted	**Telephone No.**	376-4650
SAF No.	W12-004	**Sampling Origin**	Hanford Site	**Purchase Order/Charge Code**	300071ES20
Project Title	RCRA, APRIL 2012	**Logbook No.**	HNF-N-506 45180	**Ice Chest No.**	GWS 155
Shipped To (Lab)	TestAmerica St. Louis	**Method of Shipment**	Commercial Carrier	**Bill of Lading/Air Bill No.**	7982 9431 9162
Protocol	RCRA	**Priority:**	45 Days	**Offsite Property No.**	N/A

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
B2KL50	N	W	APR 16 2012	1043	3x1-L aG	8270_SVOA_GCMS: 1,4 Dioxane (1)	7/40 Days	Cool~4C
B2KL50	N	W	↓	↓	1x20-mL P	Activity Scan	6 Months	None

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
L.D. Wall CHPRC	L.D. Wall	L.D. Wall	APR 16 2012 1400	S Smith		S Smith	APR 16 2012 1400
S Smith			4-17-12 1030	R Ellingsworth		R Ellingsworth	4-17-12 1030
R Ellingsworth		R Ellingsworth	4-17-12 1400	Fed Ex			
FED EX				Nicholas Owens		Nicholas Owens	4/18/12 1020

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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SDG #SL1265

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # W12-004-144
SL1265		Page 1 of 1

Collector	L.D. Wall CHPRC	**Contact/Requester**	Karen Waters-Husted	**Telephone No.**	376-4650
SAF No.	W12-004	**Sampling Origin**	Hanford Site	**Purchase Order/Charge Code**	300071ES20
Project Title	RCRA, APRIL 2012	**Logbook No.**	HNF-N-506 45/80	**Ice Chest No.**	GWS 155
Shipped To (Lab)	TestAmerica St. Louis	**Method of Shipment**	Commercial Carrier	**Bill of Lading/Air Bill No.**	7982 9431 9162
Protocol	RCRA	**Priority:**	45 Days	**Offsite Property No.**	N/A

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
B2KL70	N	W	APR 16 2012	1135	3x1-L aG	8270_SVOA_GCMS: 1,4 Dioxane (1)	7/40 Days	Cool~4C
B2KL70	N	W	↓	↓	1x20-mL P	Activity Scan	6 Months	None

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	Print	Sign	Date/Time		Print	Sign	Date/Time
Relinquished By L.D. Wall CHPRC	L.D. Wall	L.D. Wall	APR 16 2012 1400	Received By			APR 16 2012 1400
Relinquished By			4-17-12 Date/Time 10 30	Received By	R ELLINGSWORTH		4/17/12 Date/Time 10:30
Relinquished By R ELLINGSWORTH			4-17-12 Date/Time 1400	Received By	Fed EX		Date/Time
Relinquished By FED EX			Date/Time	Received By NICHOLAS OWENS			4/18/12 Date/Time 1020

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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CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # W12-004-146
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SDG #SL1265

Collector	D.J. Woehle CHPRC	**Contact/Requester**	Karen Waters-Husted	**Telephone No.**	376-4650
SAF No.	W12-004	**Sampling Origin**	Hanford Site	**Purchase Order/Charge Code**	300071ES20
Project Title	RCRA, APRIL 2012	**Logbook No.**	HNF-N-506 44 / 55	**Ice Chest No.**	GWS 155
Shipped To (Lab)	TestAmerica St. Louis	**Method of Shipment**	Commercial Carrier	**Bill of Lading/Air Bill No.**	7982 9431 9162
Protocol	RCRA	**Priority:**	45 Days	**Offsite Property No.**	N/A

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
B2KL82	N	W	4/16/12	1120	3x1-L aG	8270_SVOA_GCMS: 1,4 Dioxane (1)	7/40 Days	Cool~4C
B2KL82	N	W	4/16/12	1120	1x20-mL P	Activity Scan	6 Months	None

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Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
D.J. Woehle CHPRC	D.J. Woehle		APR 16 2012 1426	SSU #1			APR 16 2012 1421
SSU #1			4-17-12 1030	R Ellingsworth			4-17-12 1030
R Ellingsworth			4-17-12 1400	Fed EX			
Fed EX				Nicholas Owens			4/18/12 1020

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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CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # W12-004-143
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SDG #SL1265

Collector	D.J. Woehle CHPRC	**Contact/Requester**	Karen Waters-Husted	**Telephone No.**	376-4650
SAF No.	W12-004	**Sampling Origin**	Hanford Site	**Purchase Order/Charge Code**	300071ES20
Project Title	RCRA, APRIL 2012	**Logbook No.**	HNF-N-506 44/55	**Ice Chest No.**	GWS 188 02
Shipped To (Lab)	TestAmerica St. Louis	**Method of Shipment**	Commercial Carrier	**Bill of Lading/Air Bill No.**	7934 6394 1625
Protocol	RCRA	**Priority:**	**45 Days**	**Offsite Property No.**	N/A

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
B2KL60	N	W	4/16/12	1333	3x1-L aG	8270_SVOA_GCMS: 1,4 Dioxane (1)	7/40 Days	Cool~4C
B2KL60	N	W	4/16/12	1333	1x20-mL P	Activity Scan	6 Months	None

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Relinquished By	Print / Sign	Date/Time	Received By	Print / Sign	Date/Time
D.J. Woehle CHPRC	Sign	APR 16 2012 1426	SSU #1		APR 16 2012 1426
SSU 1		4-17-12 1030	R Ellingsworth		4-17-12 1030
R Ellingsworth		4-17-12 1400	Fed EX		
Fed EX			Nicholas Owens		4/18/12 1020

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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CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # W12-004-145
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SDG #SL1265

Collector	D.J. Woehle CHPRC	**Contact/Requester**	Karen Waters-Husted	**Telephone No.**	376-4650
SAF No.	W12-004	**Sampling Origin**	Hanford Site	**Purchase Order/Charge Code**	300071ES20
Project Title	RCRA, APRIL 2012	**Logbook No.**	HNF-N-506 44 / 55	**Ice Chest No.**	GWS 189 02
Shipped To (Lab)	TestAmerica St. Louis	**Method of Shipment**	Commercial Carrier	**Bill of Lading/Air Bill No.**	7934 6394 1625
Protocol	RCRA	**Priority:**	**45 Days**	**Offsite Property No.**	N/A

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
B2KL81	N	W	4/16/12	0900	3x1-L aG	8270_SVOA_GCMS: 1,4 Dioxane (1)	7/40 Days	Cool~4C
B2KL81	N	W	4/16/12	0900	1x20-mL P	Activity Scan	6 Months	None

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
	D.J. Woehle CHPRC		APR 16 2012 1426	SSU-1			APR 16 2012 1426
SSU-1			4-17-12 1030	R Ellingsworth			4-17-12 1030
R Ellingsworth			4-17-12 1400	Fed EX			
FED EX				Nicholas Owens			4/18/12 1020

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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FedEx

Detailed Results

Tracking no.: 798294319162 Select time format: **12H**

Delivered

Delivered
Signed for by: B.DANIELS

Shipment Dates	Destination
Ship date Apr 17, 2012	EARTH CITY, MO
Delivery date Apr 18, 2012 10:19 AM	Signature Proof of Delivery

Shipment Options

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

Shipment Facts

Service type	Priority Overnight	Delivered to	Shipping/Receiving
Weight	75.0 lbs/34.0 kg	Reference	GWS-155

Shipment Travel History

Select time zone: Local Scan Time

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

Date/Time	Activity	Location	Details
Apr 18, 2012 10:19 AM	Delivered	EARTH CITY, MO	
Apr 18, 2012 7:11 AM	On FedEx vehicle for delivery	EARTH CITY, MO	
Apr 18, 2012 7:04 AM	At local FedEx facility	EARTH CITY, MO	
Apr 18, 2012 5:00 AM	At destination sort facility	BERKELEY, MO	
Apr 18, 2012 4:17 AM	Departed FedEx location	MEMPHIS, TN	
Apr 18, 2012 12:45 AM	Arrived at FedEx location	MEMPHIS, TN	
Apr 17, 2012 5:14 PM	Left FedEx origin facility	PASCO, WA	
Apr 17, 2012 4:05 PM	Picked up	PASCO, WA	
Apr 17, 2012 2:26 PM	Shipment information sent to FedEx		

Print page | Close

FedEx

Detailed Results

Tracking no.: 793463941625 Select time format: **12H**

Delivered

Delivered
Signed for by: B.DANIELS

Shipment Dates	Destination
Ship date Apr 17, 2012	EARTH CITY, MO
Delivery date Apr 18, 2012 10:19 AM	Signature Proof of Delivery

Shipment Options

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

Shipment Facts

Service type	Priority Overnight	Delivered to	Shipping/Receiving
Weight	46.0 lbs/20.9 kg	Reference	gws-189-02

Shipment Travel History

Select time zone: Local Scan Time

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

Date/Time	Activity	Location	Details
Apr 18, 2012 10:19 AM	**Delivered**	EARTH CITY, MO	
Apr 18, 2012 7:11 AM	On FedEx vehicle for delivery	EARTH CITY, MO	
Apr 18, 2012 7:04 AM	At local FedEx facility	EARTH CITY, MO	
Apr 18, 2012 5:00 AM	At destination sort facility	BERKELEY, MO	
Apr 18, 2012 4:17 AM	Departed FedEx location	MEMPHIS, TN	
Apr 18, 2012 12:45 AM	Arrived at FedEx location	MEMPHIS, TN	
Apr 17, 2012 5:14 PM	Left FedEx origin facility	PASCO, WA	
Apr 17, 2012 4:05 PM	Picked up	PASCO, WA	
Apr 17, 2012 2:41 PM	Shipment information sent to FedEx		

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CUR Form #: 3 8 9

Lot #(s): F2D180412

CONDITION UPON RECEIPT FORM

Client: CHPRC
Quote No: 90029
COC/RFA No: SEE BELOW
Initiated By: NVO Date: 4/18/12 Time: 1020

Shipping Information

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

Shipping # (s):*				Sample Temperature (s):**			
1.	7934 6394 1625	6.		1.	2	6.	
2.	7982 9431 9162	7.		2.	2	7.	
3.		8.		3.		8.	
4.		9.		4.		9.	
5.		10.		5.		10.	

*Numbered shipping lines correspond to Numbered Sample Temp lines

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

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Corrective Action:
☐ Client Contact Name: _____ Informed by: _____
☐ Sample(s) processed "as is"
☐ Sample(s) on hold until: _____ If released, notify: _____
Project Management Review: bjs Date: 04-20-12

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: B2KFW5

GC/MS Volatiles

Lot-Sample #...: F2D120462-001 **Work Order #...:** MR0FX1AJ **Matrix.....:** WATER
Date Sampled...: 04/10/12 **Date Received..:** 04/12/12
Prep Date.....: 04/18/12 **Analysis Date..:** 04/18/12
Prep Batch #...: 2109084
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: B2KFW5

GC/MS Volatiles

Lot-Sample #...: F2D120462-001 **Work Order #...:** MR0FX1AJ **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	2.0	ug/L	0.34
Methylene chloride	**3.3 T**	**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	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	101	(85 - 118)
1,2-Dichloroethane-d4	94	(80 - 119)
4-Bromofluorobenzene	93	(84 - 115)

NOTE(S):

T Spike sample recovery is outside control limits.

CH2M Hill Plateau Remediation DOE RL

B2KFW5

GC/MS Volatiles

Lot-Sample #: F2D120462-001 **Work Order #:** MR0FX1AJ **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: B2KFW6

GC/MS Volatiles

Lot-Sample #...: F2D120462-002 **Work Order #...:** MR0F11AE **Matrix.....:** WATER
Date Sampled...: 04/10/12 **Date Received..:** 04/12/12
Prep Date.....: 04/18/12 **Analysis Date..:** 04/18/12
Prep Batch #...: 2109084
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

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CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2KFW6

GC/MS Volatiles

Lot-Sample #...: F2D120462-002 **Work Order #...:** MR0F11AE **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	2.0	ug/L	0.34
Methylene chloride	ND T	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	**3.1**	**1.0**	**ug/L**	**0.10**
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.087
Propionitrile	ND	5.0	ug/L	1.4
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.083
1,1,1-Trichloroethane	ND	1.0	ug/L	0.069
1,2-Dichloroethane	ND	1.0	ug/L	0.10
Benzene	ND	1.0	ug/L	0.064
Trichloroethene	**2.3**	**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	114	(85 - 118)
1,2-Dichloroethane-d4	108	(80 - 119)
4-Bromofluorobenzene	94	(84 - 115)

NOTE(S):

T Spike sample recovery is outside control limits.

CH2M Hill Plateau Remediation DOE RL

B2KFW6

GC/MS Volatiles

Lot-Sample #: F2D120462-002 **Work Order #:** MR0F11AE **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: B2KFW6

GC/MS Volatiles

Lot-Sample #...: F2D120462-002 **Work Order #...:** MR0F12AE **Matrix.....:** WATER
Date Sampled...: 04/10/12 **Date Received..:** 04/12/12
Prep Date.....: 04/18/12 **Analysis Date..:** 04/18/12
Prep Batch #...: 2109084
Dilution Factor: 25 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Carbon tetrachloride	390 D	25	ug/L	3.1

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	104	(85 - 120)
Dibromofluoromethane	108	(85 - 118)
1,2-Dichloroethane-d4	99	(80 - 119)
4-Bromofluorobenzene	100	(84 - 115)

NOTE(S):

D Result was obtained from the analysis of a dilution.

CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2L245

GC/MS Volatiles

Lot-Sample #...: F2D120464-001 **Work Order #...:** MR0F61AA **Matrix.....:** WATER
Date Sampled...: 04/10/12 **Date Received..:** 04/12/12
Prep Date.....: 04/17/12 **Analysis Date..:** 04/17/12
Prep Batch #...: 2108089
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	ND	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	ND	1.0	ug/L	0.10
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.087
Propionitrile	ND	5.0	ug/L	1.4
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.083
1,1,1-Trichloroethane	ND	1.0	ug/L	0.069
Carbon tetrachloride	ND	1.0	ug/L	0.12
1,2-Dichloroethane	ND	1.0	ug/L	0.10
Benzene	ND	1.0	ug/L	0.064
Trichloroethene	ND	1.0	ug/L	0.25
4-Methyl-2-pentanone	ND	5.0	ug/L	0.12
1,1,2-Trichloroethane	ND	1.0	ug/L	0.15
Tetrachloroethene	ND	1.0	ug/L	0.18
Tetrahydrofuran	ND	10	ug/L	1.1
Xylenes (total)	ND	3.0	ug/L	0.20
1,4-Dichlorobenzene	ND	1.0	ug/L	0.12
1-Butanol	ND	40	ug/L	12
Toluene	ND	1.0	ug/L	0.072

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	99	(85 - 120)
Dibromofluoromethane	106	(85 - 118)
1,2-Dichloroethane-d4	108	(80 - 119)
4-Bromofluorobenzene	100	(84 - 115)

NOTE(S):

J Estimated result. Result is less than RL.

CH2M Hill Plateau Remediation DOE RL

B2L245

GC/MS Volatiles

Lot-Sample #: F2D120464-001 **Work Order #:** MR0F61AA **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: B2L246

GC/MS Volatiles

Lot-Sample #...: F2D130428-001 **Work Order #...:** MR0691AC **Matrix.....:** WATER
Date Sampled...: 04/11/12 **Date Received..:** 04/13/12
Prep Date.....: 04/17/12 **Analysis Date..:** 04/17/12
Prep Batch #...: 2108089
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	ND	2.0	ug/L	0.34
Methylene chloride	**13**	**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	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	**0.10 J**	**1.0**	**ug/L**	**0.072**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	102	(85 - 120)
Dibromofluoromethane	109	(85 - 118)
1,2-Dichloroethane-d4	112	(80 - 119)
4-Bromofluorobenzene	98	(84 - 115)

NOTE(S):

J Estimated result. Result is less than RL.

CH2M Hill Plateau Remediation DOE RL

B2L246

GC/MS Volatiles

Lot-Sample #: F2D130428-001 **Work Order #:** MR0691AC **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: B2KFX5

GC/MS Volatiles

Lot-Sample #...: F2D130430-001 **Work Order #...:** MR07H1AC **Matrix.....:** WATER
Date Sampled...: 04/11/12 **Date Received..:** 04/13/12
Prep Date.....: 04/18/12 **Analysis Date..:** 04/18/12
Prep Batch #...: 2109084
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
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
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
Vinyl chloride	ND	2.0	ug/L	0.084

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CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2KFX5

GC/MS Volatiles

Lot-Sample #...: F2D130430-001 **Work Order #...:** MR07H1AC **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	2.0	ug/L	0.34
Methylene chloride	ND T	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	**6.2**	**1.0**	**ug/L**	**0.10**
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.087
Propionitrile	ND	5.0	ug/L	1.4
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.083
1,1,1-Trichloroethane	ND	1.0	ug/L	0.069
1,2-Dichloroethane	ND	1.0	ug/L	0.10
Benzene	ND	1.0	ug/L	0.064
Trichloroethene	**3.7**	**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	101	(85 - 120)
Dibromofluoromethane	113	(85 - 118)
1,2-Dichloroethane-d4	104	(80 - 119)
4-Bromofluorobenzene	101	(84 - 115)

NOTE(S):

T Spike sample recovery is outside control limits.

CH2M Hill Plateau Remediation DOE RL

B2KFX5

GC/MS Volatiles

Lot-Sample #: F2D130430-001 **Work Order #:** MR07H1AC **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: B2KFX5

GC/MS Volatiles

Lot-Sample #...: F2D130430-001 **Work Order #...:** MR07H2AC **Matrix.....:** WATER
Date Sampled...: 04/11/12 **Date Received..:** 04/13/12
Prep Date.....: 04/18/12 **Analysis Date..:** 04/18/12
Prep Batch #...: 2109084
Dilution Factor: 25 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Carbon tetrachloride	**390 D**	**25**	**ug/L**	**3.1**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	105	(85 - 120)
Dibromofluoromethane	110	(85 - 118)
1,2-Dichloroethane-d4	103	(80 - 119)
4-Bromofluorobenzene	99	(84 - 115)

NOTE(S):

D Result was obtained from the analysis of a dilution.

CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2KFF2

GC/MS Volatiles

Lot-Sample #...: F2D170439-001 **Work Order #...:** MR2R61AF **Matrix.....:** WATER
Date Sampled...: 04/13/12 **Date Received..:** 04/17/12
Prep Date.....: 04/18/12 **Analysis Date..:** 04/18/12
Prep Batch #...: 2109084
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

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CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2KFF2

GC/MS Volatiles

Lot-Sample #...: F2D170439-001 **Work Order #...:** MR2R61AF **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	2.0	ug/L	0.34
Methylene chloride	ND T	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	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	**0.53 J**	**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	106	(85 - 118)
1,2-Dichloroethane-d4	108	(80 - 119)
4-Bromofluorobenzene	98	(84 - 115)

NOTE(S):

T Spike sample recovery is outside control limits.

J Estimated result. Result is less than RL.

CH2M Hill Plateau Remediation DOE RL

B2KFF2

GC/MS Volatiles

Lot-Sample #: F2D170439-001 **Work Order #:** MR2R61AF **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Adamantane	281-23-2	2.7 J	M	15.022	ug/L
Unknown benzene derivative		3.9 J	M	15.519	ug/L
Unknown benzene derivative		4.1 J	M	15.649	ug/L
1H-indene, 2,3-dihydro-1,6-dim	17059-48-2	2.2 J	M	15.696	ug/L
Unknown		5.2 J	M	15.921	ug/L
Unknown benzene derivative		8.2 J	M	16.134	ug/L
Unknown benzene derivative		13 J	M	16.181	ug/L
Unknown benzene derivative		5.4 J	M	16.264	ug/L
Naphthalene, 1,2,3,4-tetrahydr	3877-19-8	7.2 J	M	16.394	ug/L
Unknown benzene derivative		5.9 J	M	16.454	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: B2K4B7

GC/MS Volatiles

Lot-Sample #...: F2D170441-001 **Work Order #...:** MR2TD1AC **Matrix.....:** WATER
Date Sampled...: 04/13/12 **Date Received..:** 04/17/12
Prep Date.....: 04/18/12 **Analysis Date..:** 04/18/12
Prep Batch #...: 2109084
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
Acrylonitrile	ND	10	ug/L	0.58
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

(Continued on next page)

CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2K4B7

GC/MS Volatiles

Lot-Sample #...: F2D170441-001 **Work Order #...:** MR2TD1AC **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Vinyl chloride	ND	2.0	ug/L	0.084
Acetone	ND	2.0	ug/L	0.34
Methylene chloride	ND T	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	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	**0.32 J**	**1.0**	**ug/L**	**0.12**
1,2-Dichloroethane	ND	1.0	ug/L	0.10
Benzene	ND	1.0	ug/L	0.064
Trichloroethene	ND	1.0	ug/L	0.25
4-Methyl-2-pentanone	ND	5.0	ug/L	0.12
1,1,2-Trichloroethane	ND	1.0	ug/L	0.15
Tetrachloroethene	ND	1.0	ug/L	0.18
Tetrahydrofuran	ND	10	ug/L	1.1
Xylenes (total)	ND	3.0	ug/L	0.20
1,4-Dichlorobenzene	ND	1.0	ug/L	0.12
1-Butanol	ND	40	ug/L	12
Toluene	ND	1.0	ug/L	0.072

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	98	(85 - 120)
Dibromofluoromethane	108	(85 - 118)
1,2-Dichloroethane-d4	112	(80 - 119)
4-Bromofluorobenzene	96	(84 - 115)

NOTE(S):

T Spike sample recovery is outside control limits.

J Estimated result. Result is less than RL.

CH2M Hill Plateau Remediation DOE RL

B2K4B7

GC/MS Volatiles

Lot-Sample #: F2D170441-001 **Work Order #:** MR2TD1AC **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: B2L247

GC/MS Volatiles

Lot-Sample #...: F2D170442-012 **Work Order #...:** MR2TT1AC **Matrix.....:** WATER
Date Sampled...: 04/13/12 **Date Received..:** 04/17/12
Prep Date.....: 04/18/12 **Analysis Date..:** 04/18/12
Prep Batch #...: 2109084
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	ND	2.0	ug/L	0.34
Methylene chloride	**21 T**	**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	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	**0.15 J**	**1.0**	**ug/L**	**0.072**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	104	(85 - 120)
Dibromofluoromethane	102	(85 - 118)
1,2-Dichloroethane-d4	94	(80 - 119)
4-Bromofluorobenzene	105	(84 - 115)

NOTE(S):

T Spike sample recovery is outside control limits.

J Estimated result. Result is less than RL.

CH2M Hill Plateau Remediation DOE RL

B2L247

GC/MS Volatiles

Lot-Sample #: F2D170442-012 **Work Order #:** MR2TT1AC **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

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

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: SL1265 **Work Order #...:** MR2J91AA **Matrix.....:** WATER
MB Lot-Sample #: F2D170000-089

Prep Date.....: 04/17/12
Analysis Date..: 04/17/12 **Prep Batch #...:** 2108089
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B
1,4-Dioxane	ND	80	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
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	105	(85 - 118)
1,2-Dichloroethane-d4	104	(80 - 119)
4-Bromofluorobenzene	98	(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 #: F2D170000-089 B **Work Order #:** MR2J91AA **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

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

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: SL1265 **Work Order #...:** MR3ER1AA **Matrix.....:** WATER
MB Lot-Sample #: F2D180000-084

Prep Date.....: 04/18/12
Analysis Date..: 04/18/12 **Prep Batch #...:** 2109084
Dilution Factor: 1

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

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: SL1265 **Work Order #...:** MR3ER1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Methylene chloride	ND	1.0	ug/L	SW846 8260B
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	99	(85 - 120)
Dibromofluoromethane	106	(85 - 118)
1,2-Dichloroethane-d4	105	(80 - 119)
4-Bromofluorobenzene	89	(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 #: F2D180000-084 B **Work Order #:** MR3ER1AA **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 #...: SL1265 **Work Order #...:** MR2J91AC **Matrix.....:** WATER
LCS Lot-Sample#: F2D170000-089
Prep Date.....: 04/17/12 **Analysis Date..:** 04/17/12
Prep Batch #...: 2108089
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
1,4-Dioxane	200	146	ug/L	73	SW846 8260B
1,1-Dichloroethene	10.0	10.6	ug/L	106	SW846 8260B
Ethylbenzene	10.0	9.81	ug/L	98	SW846 8260B
Vinyl chloride	10.0	8.88	ug/L	89	SW846 8260B
Acetone	10.0	9.05	ug/L	90	SW846 8260B
Methylene chloride	10.0	9.86	ug/L	99	SW846 8260B
Carbon disulfide	10.0	11.4	ug/L	114	SW846 8260B
1,1-Dichloroethane	10.0	9.54	ug/L	95	SW846 8260B
2-Butanone	10.0	9.39	ug/L	94	SW846 8260B
Chloroform	10.0	9.71	ug/L	97	SW846 8260B
cis-1,2-Dichloroethene	10.0	9.98	ug/L	100	SW846 8260B
Propionitrile	50.0	43.5	ug/L	87	SW846 8260B
trans-1,2-Dichloroethene	10.0	10.1	ug/L	101	SW846 8260B
1,1,1-Trichloroethane	10.0	10.4	ug/L	104	SW846 8260B
Carbon tetrachloride	10.0	10.8	ug/L	108	SW846 8260B
1,2-Dichloroethane	10.0	9.36	ug/L	94	SW846 8260B
Benzene	10.0	9.63	ug/L	96	SW846 8260B
Trichloroethene	10.0	9.88	ug/L	99	SW846 8260B
4-Methyl-2-pentanone	10.0	9.15	ug/L	91	SW846 8260B
1,1,2-Trichloroethane	10.0	9.18	ug/L	92	SW846 8260B
Tetrachloroethene	10.0	10.6	ug/L	106	SW846 8260B
Tetrahydrofuran	50.0	39.9	ug/L	80	SW846 8260B
1,4-Dichlorobenzene	10.0	9.80	ug/L	98	SW846 8260B
1-Butanol	100	74.8	ug/L	75	SW846 8260B
Toluene	10.0	10.1	ug/L	101	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	103	(88 - 120)
Dibromofluoromethane	108	(87 - 115)
1,2-Dichloroethane-d4	97	(81 - 117)
4-Bromofluorobenzene	91	(84 - 117)

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: SL1265 **Work Order #...:** MR2J91AC **Matrix.....:** WATER
LCS Lot-Sample#: F2D170000-089

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: SL1265 Work Order #...: MR3ER1AC Matrix.....: WATER
LCS Lot-Sample#: F2D180000-084
Prep Date.....: 04/18/12 Analysis Date..: 04/18/12
Prep Batch #...: 2109084
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
cis-1,3-Dichloropropene	10.0	10.9	ug/L	109	SW846 8260B
Dibromochloromethane	10.0	11.3	ug/L	113	SW846 8260B
Chloromethane	10.0	9.85	ug/L	98	SW846 8260B
Bromomethane	10.0	12.4	ug/L	124	SW846 8260B
Chloroethane	10.0	9.27	ug/L	93	SW846 8260B
1,1-Dichloroethene	10.0	10.3	ug/L	103	SW846 8260B
1,2-Dichloroethene (total)	20.0	19.7	ug/L	98	SW846 8260B
1,2-Dichloropropane	10.0	9.56	ug/L	96	SW846 8260B
Bromodichloromethane	10.0	10.0	ug/L	100	SW846 8260B
trans-1,3-Dichloropropene	10.0	10.1	ug/L	101	SW846 8260B
2-Hexanone	10.0	8.96	ug/L	90	SW846 8260B
Chlorobenzene	10.0	8.97	ug/L	90	SW846 8260B
Bromoform	10.0	9.22	ug/L	92	SW846 8260B
Ethylbenzene	10.0	9.38	ug/L	94	SW846 8260B
Styrene	10.0	10.2	ug/L	102	SW846 8260B
1,1,2,2-Tetrachloroethane	10.0	8.21	ug/L	82	SW846 8260B
Allyl chloride	10.0	10.2	ug/L	102	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)	10.0	10.3	ug/L	103	SW846 8260B
1,2-Dibromoethane	10.0	9.53	ug/L	95	SW846 8260B
trans-1,4-Dichloro-2-butene	10.0	10.0	ug/L	100	SW846 8260B
Dichlorodifluoromethane (Freon 12)	10.0	7.16	ug/L	72	SW846 8260B
Ethyl methacrylate	10.0	7.89	ug/L	79	SW846 8260B
Methyl methacrylate	10.0	7.59	ug/L	76	SW846 8260B
1,1,1,2-Tetrachloroethane	10.0	10.8	ug/L	108	SW846 8260B
Trichlorofluoromethane	10.0	10.1	ug/L	101	SW846 8260B
Acetonitrile	50.0	53.4	ug/L	107	SW846 8260B
Iodomethane	10.0	9.06	ug/L	91	SW846 8260B
Vinyl acetate	10.0	8.59	ug/L	86	SW846 8260B
Acrolein	50.0	45.1	ug/L	90	SW846 8260B
Acrylonitrile	50.0	54.3	ug/L	109	SW846 8260B

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: SL1265 **Work Order #...:** MR3ER1AC **Matrix.....:** WATER
LCS Lot-Sample#: F2D180000-084

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Isobutanol	200	176	ug/L	88	SW846 8260B
Methacrylonitrile	50.0	46.6	ug/L	93	SW846 8260B
1,4-Dioxane	200	151	ug/L	76	SW846 8260B
Chloroprene	10.0	9.05	ug/L	90	SW846 8260B
Dibromomethane	10.0	9.78	ug/L	98	SW846 8260B
1,2,3-Trichloropropane	10.0	8.37	ug/L	84	SW846 8260B
Vinyl chloride	10.0	9.00	ug/L	90	SW846 8260B
Acetone	10.0	9.65	ug/L	97	SW846 8260B
Methylene chloride	10.0	9.50	ug/L	95	SW846 8260B
Carbon disulfide	10.0	11.0	ug/L	110	SW846 8260B
1,1-Dichloroethane	10.0	9.55	ug/L	96	SW846 8260B
2-Butanone	10.0	10.2	ug/L	102	SW846 8260B
Chloroform	10.0	9.85	ug/L	98	SW846 8260B
cis-1,2-Dichloroethene	10.0	9.89	ug/L	99	SW846 8260B
Propionitrile	50.0	48.1	ug/L	96	SW846 8260B
trans-1,2-Dichloroethene	10.0	9.77	ug/L	98	SW846 8260B
1,1,1-Trichloroethane	10.0	10.6	ug/L	106	SW846 8260B
Carbon tetrachloride	10.0	11.0	ug/L	110	SW846 8260B
1,2-Dichloroethane	10.0	9.95	ug/L	100	SW846 8260B
Benzene	10.0	9.54	ug/L	95	SW846 8260B
Trichloroethene	10.0	9.82	ug/L	98	SW846 8260B
4-Methyl-2-pentanone	10.0	10.6	ug/L	106	SW846 8260B
1,1,2-Trichloroethane	10.0	9.00	ug/L	90	SW846 8260B
Tetrachloroethene	10.0	11.3	ug/L	113	SW846 8260B
Tetrahydrofuran	50.0	46.0	ug/L	92	SW846 8260B
1,4-Dichlorobenzene	10.0	9.80	ug/L	98	SW846 8260B
1-Butanol	100	91.2	ug/L	91	SW846 8260B
Toluene	10.0	9.49	ug/L	95	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	99	(88 - 120)
Dibromofluoromethane	113	(87 - 115)
1,2-Dichloroethane-d4	106	(81 - 117)
4-Bromofluorobenzene	87	(84 - 117)

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: SL1265 **Work Order #...:** MR3ER1AC **Matrix.....:** WATER
LCS Lot-Sample#: F2D180000-084

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 #...: SL1265 **Work Order #...:** MR0F61AC-MS **Matrix.....:** WATER
MS Lot-Sample #: F2D120464-001 MR0F61AD-MSD
Date Sampled...: 04/10/12 **Date Received..:** 04/12/12
Prep Date.....: 04/17/12 **Analysis Date..:** 04/17/12
Prep Batch #...: 2108089
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
1,1-Dichloroethene	ND	10.0	10.5	ug/L	105		SW846 8260B
	ND	10.0	9.87	ug/L	99	5.9	SW846 8260B
Ethylbenzene	ND	10.0	10.1	ug/L	101		SW846 8260B
	ND	10.0	9.57	ug/L	96	5.7	SW846 8260B
1,4-Dioxane	ND	200	222	ug/L	111		SW846 8260B
	ND	200	153	ug/L	77	37	SW846 8260B
Vinyl chloride	ND	10.0	8.72	ug/L	87		SW846 8260B
	ND	10.0	8.46	ug/L	85	2.9	SW846 8260B
Acetone	ND	10.0	9.53	ug/L	95		SW846 8260B
	ND	10.0	9.14	ug/L	91	4.2	SW846 8260B
Methylene chloride	0.34	10.0	11.0	ug/L	106		SW846 8260B
	0.34	10.0	10.0	ug/L	97	8.8	SW846 8260B
Carbon disulfide	ND	10.0	11.9	ug/L	119		SW846 8260B
	ND	10.0	10.9	ug/L	109	8.5	SW846 8260B
1,1-Dichloroethane	ND	10.0	10.2	ug/L	102		SW846 8260B
	ND	10.0	9.51	ug/L	95	7.4	SW846 8260B
2-Butanone	ND	10.0	10.3	ug/L	103		SW846 8260B
	ND	10.0	10.0	ug/L	100	2.6	SW846 8260B
Chloroform	ND	10.0	10.5	ug/L	105		SW846 8260B
	ND	10.0	9.75	ug/L	98	7.1	SW846 8260B
cis-1,2-Dichloroethene	ND	10.0	10.4	ug/L	104		SW846 8260B
	ND	10.0	9.78	ug/L	98	6.5	SW846 8260B
Propionitrile	ND	50.0	49.8	ug/L	100		SW846 8260B
	ND	50.0	45.6	ug/L	91	8.8	SW846 8260B
trans-1,2-Dichloroethene	ND	10.0	10.4	ug/L	104		SW846 8260B
	ND	10.0	9.85	ug/L	99	5.6	SW846 8260B
1,1,1-Trichloroethane	ND	10.0	10.6	ug/L	106		SW846 8260B
	ND	10.0	9.89	ug/L	99	6.5	SW846 8260B
Carbon tetrachloride	ND	10.0	10.9	ug/L	109		SW846 8260B
	ND	10.0	10.2	ug/L	102	7.0	SW846 8260B
1,2-Dichloroethane	ND	10.0	10.0	ug/L	100		SW846 8260B
	ND	10.0	9.65	ug/L	96	4.0	SW846 8260B
Benzene	ND	10.0	10.2	ug/L	102		SW846 8260B
	ND	10.0	9.66	ug/L	97	5.2	SW846 8260B
Trichloroethene	ND	10.0	10.1	ug/L	101		SW846 8260B
	ND	10.0	9.68	ug/L	97	4.1	SW846 8260B
4-Methyl-2-pentanone	ND	10.0	10.8	ug/L	108		SW846 8260B
	ND	10.0	9.91	ug/L	99	8.9	SW846 8260B
1,1,2-Trichloroethane	ND	10.0	10.0	ug/L	100		SW846 8260B
	ND	10.0	9.72	ug/L	97	2.8	SW846 8260B

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: SL1265 **Work Order #...:** MR0F61AC-MS **Matrix.....:** WATER
MS Lot-Sample #: F2D120464-001 MR0F61AD-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Tetrachloroethene	**ND**	**10.0**	**9.68**	**ug/L**	**97**		**SW846 8260B**
	ND	**10.0**	**9.59**	**ug/L**	**96**	**0.85**	**SW846 8260B**
Tetrahydrofuran	**ND**	**50.0**	**50.3**	**ug/L**	**101**		**SW846 8260B**
	ND	**50.0**	**46.6**	**ug/L**	**93**	**7.5**	**SW846 8260B**
1,4-Dichlorobenzene	**ND**	**10.0**	**10.4**	**ug/L**	**104**		**SW846 8260B**
	ND	**10.0**	**9.81**	**ug/L**	**98**	**5.9**	**SW846 8260B**
1-Butanol	**ND**	**100**	**89.3**	**ug/L**	**89**		**SW846 8260B**
	ND	**100**	**79.9**	**ug/L**	**80**	**11**	**SW846 8260B**
Toluene	**ND**	**10.0**	**10.3**	**ug/L**	**103**		**SW846 8260B**
	ND	**10.0**	**9.69**	**ug/L**	**97**	**6.2**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	105	(85 - 120)
	102	(85 - 120)
Dibromofluoromethane	112	(85 - 118)
	109	(85 - 118)
1,2-Dichloroethane-d4	108	(80 - 119)
	107	(80 - 119)
4-Bromofluorobenzene	94	(84 - 115)
	94	(84 - 115)

NOTE(S):

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

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: SL1265 **Work Order #...:** MR0FX1AK-MS **Matrix.....:** WATER
MS Lot-Sample #: F2D120462-001 MR0FX1AL-MSD
Date Sampled...: 04/10/12 **Date Received..:** 04/12/12
Prep Date.....: 04/18/12 **Analysis Date..:** 04/18/12
Prep Batch #...: 2109084
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
cis-1,3-Dichloropropene	ND	10.0	10.7	ug/L	107		SW846 8260B
	ND	10.0	10.8	ug/L	108	1.3	SW846 8260B
Chloromethane	ND	10.0	9.85	ug/L	98		SW846 8260B
	ND	10.0	9.48	ug/L	95	3.8	SW846 8260B
Bromomethane	ND	10.0	11.9	ug/L	119		SW846 8260B
	ND	10.0	11.7	ug/L	117	1.2	SW846 8260B
Chloroethane	ND	10.0	9.63	ug/L	96		SW846 8260B
	ND	10.0	9.21	ug/L	92	4.5	SW846 8260B
1,1-Dichloroethene	ND	10.0	10.4	ug/L	104		SW846 8260B
	ND	10.0	10.1	ug/L	101	2.8	SW846 8260B
1,2-Dichloroethene (total)	ND	20.0	19.5	ug/L	98		SW846 8260B
	ND	20.0	19.2	ug/L	96	1.4	SW846 8260B
1,2-Dichloropropane	ND	10.0	9.54	ug/L	95		SW846 8260B
	ND	10.0	9.59	ug/L	96	0.49	SW846 8260B
Bromodichloromethane	ND	10.0	9.75	ug/L	98		SW846 8260B
	ND	10.0	9.89	ug/L	99	1.4	SW846 8260B
trans-1,3-Dichloropropene	ND	10.0	9.81	ug/L	98		SW846 8260B
	ND	10.0	10.1	ug/L	101	3.3	SW846 8260B
2-Hexanone	ND	10.0	8.61	ug/L	86		SW846 8260B
	ND	10.0	9.10	ug/L	91	5.4	SW846 8260B
Chlorobenzene	ND	10.0	9.04	ug/L	90		SW846 8260B
	ND	10.0	8.95	ug/L	89	1.0	SW846 8260B
Bromoform	ND	10.0	8.85	ug/L	88		SW846 8260B
	ND	10.0	9.07	ug/L	91	2.4	SW846 8260B
Ethylbenzene	ND	10.0	9.42	ug/L	94		SW846 8260B
	ND	10.0	9.28	ug/L	93	1.6	SW846 8260B
Styrene	ND	10.0	10.3	ug/L	103		SW846 8260B
	ND	10.0	10.2	ug/L	102	0.78	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	10.0	8.32	ug/L	83		SW846 8260B
	ND	10.0	8.44	ug/L	84	1.4	SW846 8260B
Dibromochloromethane	ND	10.0	11.0	ug/L	110		SW846 8260B
	ND	10.0	11.0	ug/L	110	0.45	SW846 8260B
Allyl chloride	ND	10.0	9.72	ug/L	97		SW846 8260B
	ND	10.0	9.65	ug/L	97	0.69	SW846 8260B
	ND	10.0	8.92	ug/L	89	8.7	SW846 8260B
1,2-Dibromoethane	ND	10.0	9.63	ug/L	96		SW846 8260B
	ND	10.0	9.70	ug/L	97	0.77	SW846 8260B

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: SL1265 **Work Order #...:** MR0FX1AK-MS **Matrix.....:** WATER
MS Lot-Sample #: F2D120462-001 MR0FX1AL-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
trans-1,4-Dichloro-2-butene	ND	10.0	10.2	ug/L	102		SW846 8260B
	ND	10.0	9.47	ug/L	95	7.2	SW846 8260B
Dichlorodifluoromethane (Freon 12)	ND	10.0	7.02	ug/L	70		SW846 8260B
	ND	10.0	6.88	ug/L	69	2.0	SW846 8260B
Ethyl methacrylate	ND	10.0	7.68	ug/L	77		SW846 8260B
	ND	10.0	7.74	ug/L	77	0.64	SW846 8260B
Methyl methacrylate	ND	10.0	7.92	ug/L	79		SW846 8260B
	ND	10.0	8.04	ug/L	80	1.6	SW846 8260B
1,1,1,2-Tetrachloroethane	ND	10.0	10.5	ug/L	105		SW846 8260B
	ND	10.0	10.1	ug/L	101	4.0	SW846 8260B
Trichlorofluoromethane	ND	10.0	10.2	ug/L	102		SW846 8260B
	ND	10.0	10.0	ug/L	100	1.9	SW846 8260B
Acetonitrile	ND	50.0	52.1	ug/L	104		SW846 8260B
	ND	50.0	52.8	ug/L	106	1.4	SW846 8260B
Iodomethane	ND	10.0	8.56	ug/L	86		SW846 8260B
	ND	10.0	8.41	ug/L	84	1.7	SW846 8260B
Vinyl acetate	ND	10.0	8.31	ug/L	83		SW846 8260B
	ND	10.0	8.72	ug/L	87	4.8	SW846 8260B
Acrolein	ND	50.0	46.1	ug/L	92		SW846 8260B
	ND	50.0	45.0	ug/L	90	2.4	SW846 8260B
Isobutanol	ND	200	174	ug/L	87		SW846 8260B
	ND	200	175	ug/L	88	0.63	SW846 8260B
Methacrylonitrile	ND	50.0	46.6	ug/L	93		SW846 8260B
	ND	50.0	47.0	ug/L	94	0.85	SW846 8260B
1,4-Dioxane	ND	200	196	ug/L	98		SW846 8260B
	ND	200	133	ug/L	66	38	SW846 8260B
Chloroprene	ND	10.0	8.74	ug/L	87		SW846 8260B
	ND	10.0	8.81	ug/L	88	0.86	SW846 8260B
Dibromomethane	ND	10.0	10.0	ug/L	100		SW846 8260B
	ND	10.0	9.99	ug/L	100	0.26	SW846 8260B
1,2,3-Trichloropropane	ND	10.0	8.60	ug/L	86		SW846 8260B
	ND	10.0	8.51	ug/L	85	0.99	SW846 8260B
Acrylonitrile		50.0	52.0	ug/L	104		SW846 8260B
		50.0	51.8	ug/L	104	0.30	SW846 8260B
Vinyl chloride	ND	10.0	8.41	ug/L	84		SW846 8260B
	ND	10.0	8.50	ug/L	85	1.1	SW846 8260B
Acetone	ND	10.0	8.59	ug/L	86		SW846 8260B
	ND	10.0	8.75	ug/L	87	1.9	SW846 8260B

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: SL1265 **Work Order #...:** MR0FX1AK-MS **Matrix.....:** WATER
MS Lot-Sample #: F2D120462-001 MR0FX1AL-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Methylene chloride	3.3	10.0	10.3	ug/L	70 T		SW846 8260B
	3.3	10.0	11.4	ug/L	81	10	SW846 8260B
Carbon disulfide	ND	10.0	10.9	ug/L	109		SW846 8260B
	ND	10.0	10.6	ug/L	106	2.8	SW846 8260B
1,1-Dichloroethane	ND	10.0	9.33	ug/L	93		SW846 8260B
	ND	10.0	9.24	ug/L	92	0.98	SW846 8260B
2-Butanone	ND	10.0	9.99	ug/L	100		SW846 8260B
	ND	10.0	10.1	ug/L	101	1.5	SW846 8260B
Chloroform	ND	10.0	9.64	ug/L	96		SW846 8260B
	ND	10.0	9.64	ug/L	96	0.03	SW846 8260B
cis-1,2-Dichloroethene	ND	10.0	9.77	ug/L	98		SW846 8260B
	ND	10.0	9.70	ug/L	97	0.69	SW846 8260B
Propionitrile	ND	50.0	46.9	ug/L	94		SW846 8260B
	ND	50.0	47.7	ug/L	95	1.6	SW846 8260B
trans-1,2-Dichloroethene	ND	10.0	9.74	ug/L	97		SW846 8260B
	ND	10.0	9.54	ug/L	95	2.1	SW846 8260B
1,1,1-Trichloroethane	ND	10.0	10.3	ug/L	103		SW846 8260B
	ND	10.0	10.2	ug/L	102	1.4	SW846 8260B
Carbon tetrachloride	ND	10.0	10.8	ug/L	108		SW846 8260B
	ND	10.0	10.6	ug/L	106	2.1	SW846 8260B
1,2-Dichloroethane	ND	10.0	9.81	ug/L	98		SW846 8260B
	ND	10.0	9.92	ug/L	99	1.1	SW846 8260B
Benzene	ND	10.0	9.52	ug/L	95		SW846 8260B
	ND	10.0	9.44	ug/L	94	0.88	SW846 8260B
Trichloroethene	ND	10.0	9.75	ug/L	98		SW846 8260B
	ND	10.0	9.88	ug/L	99	1.3	SW846 8260B
4-Methyl-2-pentanone	ND	10.0	10.2	ug/L	102		SW846 8260B
	ND	10.0	10.1	ug/L	101	1.3	SW846 8260B
1,1,2-Trichloroethane	ND	10.0	9.31	ug/L	93		SW846 8260B
	ND	10.0	9.46	ug/L	95	1.6	SW846 8260B
Tetrachloroethene	ND	10.0	10.5	ug/L	105		SW846 8260B
	ND	10.0	10.5	ug/L	105	0.09	SW846 8260B
Tetrahydrofuran	ND	50.0	46.8	ug/L	94		SW846 8260B
	ND	50.0	46.3	ug/L	93	0.98	SW846 8260B
1,4-Dichlorobenzene	ND	10.0	9.66	ug/L	97		SW846 8260B
	ND	10.0	9.69	ug/L	97	0.38	SW846 8260B
1-Butanol	ND	100	80.9	ug/L	81		SW846 8260B
	ND	100	81.4	ug/L	81	0.69	SW846 8260B
Toluene	ND	10.0	9.61	ug/L	96		SW846 8260B
	ND	10.0	9.50	ug/L	95	1.2	SW846 8260B

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: SL1265 **Work Order #...:** MR0FX1AK-MS **Matrix.....:** WATER
MS Lot-Sample #: F2D120462-001 MR0FX1AL-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	98	(85 - 120)
	99	(85 - 120)
Dibromofluoromethane	108	(85 - 118)
	111	(85 - 118)
1,2-Dichloroethane-d4	105	(80 - 119)
	108	(80 - 119)
4-Bromofluorobenzene	89	(84 - 115)
	94	(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.

GC/MS
SEMI-VOLATILES

CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2KFF2

GC/MS Semivolatiles

Lot-Sample #...: F2D170439-001 **Work Order #...:** MR2R61AE **Matrix.....:** WATER
Date Sampled...: 04/13/12 **Date Received..:** 04/17/12
Prep Date.....: 04/18/12 **Analysis Date..:** 04/20/12
Prep Batch #...: 2109120
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: B2KFF2

GC/MS Semivolatiles

Lot-Sample #...: F2D170439-001 **Work Order #...:** MR2R61AE **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: B2KFF2

GC/MS Semivolatiles

Lot-Sample #...: F2D170439-001 **Work Order #...:** MR2R61AE **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

(Continued on next page)

CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2KFF2

GC/MS Semivolatiles

Lot-Sample #...: F2D170439-001 **Work Order #...:** MR2R61AE **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	46	(19 - 86)
Phenol-d5	29	(10 - 71)
Nitrobenzene-d5	76	(44 - 100)
2-Fluorobiphenyl	72	(44 - 99)
2,4,6-Tribromophenol	92	(43 - 115)
Terphenyl-d14	91	(45 - 131)

CH2M Hill Plateau Remediation DOE RL

B2KFF2

GC/MS Semivolatiles

Lot-Sample #: F2D170439-001 **Work Order #:** MR2R61AE **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Unknown		8.3 J	M	3.5208	ug/L
Unknown aldol condensate		150 J	M	3.9969	ug/L
Unknown		4.3 J	M	7.1151	ug/L
Benzoic acid, 2,4,6-trimethyl-	480-63-7	130 J	M	9.7252	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: B2KL30

GC/MS Semivolatiles

Lot-Sample #...: F2D180412-001 **Work Order #...:** MR3E31AC **Matrix.....:** WATER
Date Sampled...: 04/16/12 **Date Received..:** 04/18/12
Prep Date.....: 04/20/12 **Analysis Date..:** 04/25/12
Prep Batch #...: 2111079
Dilution Factor: 1 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,4-Dioxane	ND	10	ug/L	1.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	50	(19 - 86)
Phenol-d5	32	(10 - 71)
Nitrobenzene-d5	81	(44 - 100)
2-Fluorobiphenyl	81	(44 - 99)
2,4,6-Tribromophenol	92	(43 - 115)
Terphenyl-d14	94	(45 - 131)

CH2M Hill Plateau Remediation DOE RL

B2KL30

GC/MS Semivolatiles

Lot-Sample #: F2D180412-001 **Work Order #:** MR3E31AC **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Unknown		16 J	M	3.3976	ug/L
Unknown aldol condensate		16 J	M	3.9645	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: B2KL50

GC/MS Semivolatiles

Lot-Sample #...: F2D180412-002 **Work Order #...:** MR3E41AC **Matrix.....:** WATER
Date Sampled...: 04/16/12 **Date Received..:** 04/18/12
Prep Date.....: 04/20/12 **Analysis Date..:** 04/25/12
Prep Batch #...: 2111079
Dilution Factor: 1 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,4-Dioxane	ND	10	ug/L	1.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	49	(19 - 86)
Phenol-d5	31	(10 - 71)
Nitrobenzene-d5	81	(44 - 100)
2-Fluorobiphenyl	82	(44 - 99)
2,4,6-Tribromophenol	92	(43 - 115)
Terphenyl-d14	93	(45 - 131)

CH2M Hill Plateau Remediation DOE RL

B2KL50

GC/MS Semivolatiles

Lot-Sample #: F2D180412-002 **Work Order #:** MR3E41AC **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Unknown		17 J	M	3.3978	ug/L
Unknown aldol condensate		16 J	M	3.9647	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: B2KL60

GC/MS Semivolatiles

Lot-Sample #...: F2D180412-003 **Work Order #...:** MR3E51AC **Matrix.....:** WATER
Date Sampled...: 04/16/12 **Date Received..:** 04/18/12
Prep Date.....: 04/20/12 **Analysis Date..:** 04/25/12
Prep Batch #...: 2111079
Dilution Factor: 1 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,4-Dioxane	ND	10	ug/L	1.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	49	(19 - 86)
Phenol-d5	31	(10 - 71)
Nitrobenzene-d5	83	(44 - 100)
2-Fluorobiphenyl	84	(44 - 99)
2,4,6-Tribromophenol	93	(43 - 115)
Terphenyl-d14	95	(45 - 131)

CH2M Hill Plateau Remediation DOE RL

B2KL60

GC/MS Semivolatiles

Lot-Sample #: F2D180412-003 **Work Order #:** MR3E51AC **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Unknown		7.8 J	M	3.4191	ug/L
Unknown aldol condensate		16 J	M	3.9646	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: B2KL70

GC/MS Semivolatiles

Lot-Sample #...: F2D180412-004 **Work Order #...:** MR3E61AC **Matrix.....:** WATER
Date Sampled...: 04/16/12 **Date Received..:** 04/18/12
Prep Date.....: 04/20/12 **Analysis Date..:** 04/25/12
Prep Batch #...: 2111079
Dilution Factor: 1 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,4-Dioxane	ND	10	ug/L	1.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	50	(19 - 86)
Phenol-d5	32	(10 - 71)
Nitrobenzene-d5	83	(44 - 100)
2-Fluorobiphenyl	83	(44 - 99)
2,4,6-Tribromophenol	94	(43 - 115)
Terphenyl-d14	96	(45 - 131)

CH2M Hill Plateau Remediation DOE RL

B2KL70

GC/MS Semivolatiles

Lot-Sample #: F2D180412-004 **Work Order #:** MR3E61AC **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Unknown		24 J	M	3.3869	ug/L
Unknown aldol condensate		14 J	M	3.9592	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: B2KL81

GC/MS Semivolatiles

Lot-Sample #...: F2D180412-005 **Work Order #...:** MR3E71AC **Matrix.....:** WATER
Date Sampled...: 04/16/12 **Date Received..:** 04/18/12
Prep Date.....: 04/20/12 **Analysis Date..:** 04/25/12
Prep Batch #...: 2111079
Dilution Factor: 1 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,4-Dioxane	ND	10	ug/L	1.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	51	(19 - 86)
Phenol-d5	32	(10 - 71)
Nitrobenzene-d5	85	(44 - 100)
2-Fluorobiphenyl	86	(44 - 99)
2,4,6-Tribromophenol	94	(43 - 115)
Terphenyl-d14	96	(45 - 131)

CH2M Hill Plateau Remediation DOE RL

B2KL81

GC/MS Semivolatiles

Lot-Sample #: F2D180412-005 **Work Order #:** MR3E71AC **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Unknown		42 J	M	3.3817	ug/L
Unknown aldol condensate		21 J	M	3.9647	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: B2KL82

GC/MS Semivolatiles

Lot-Sample #...: F2D180412-006 **Work Order #...:** MR3FA1AC **Matrix.....:** WATER
Date Sampled...: 04/16/12 **Date Received..:** 04/18/12
Prep Date.....: 04/20/12 **Analysis Date..:** 04/25/12
Prep Batch #...: 2111079
Dilution Factor: 1 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,4-Dioxane	ND	10	ug/L	1.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	49	(19 - 86)
Phenol-d5	31	(10 - 71)
Nitrobenzene-d5	80	(44 - 100)
2-Fluorobiphenyl	82	(44 - 99)
2,4,6-Tribromophenol	91	(43 - 115)
Terphenyl-d14	94	(45 - 131)

CH2M Hill Plateau Remediation DOE RL

B2KL82

GC/MS Semivolatiles

Lot-Sample #: F2D180412-006 **Work Order #:** MR3FA1AC **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Unknown		31 J	M	3.3765	ug/L
Unknown aldol condensate		15 J	M	3.9488	ug/L
Unknown organic acid		7.5 J	M	15.924	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 #...: SL1265 **Work Order #...:** MR3TT1AA **Matrix.....:** WATER
MB Lot-Sample #: F2D180000-120

Prep Date.....: 04/18/12
Analysis Date..: 04/20/12 **Prep Batch #...:** 2109120
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
N-Nitro-o-toluidine	ND	20	ug/L	SW846 8270C
Hexachloropropene	ND	100	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
N-Nitrosodiethylamine	ND	10	ug/L	SW846 8270C
Methyl methanesulfonate	ND	10	ug/L	SW846 8270C
Methyl parathion	ND	50	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
Benzyl alcohol	ND	10	ug/L	SW846 8270C
Hexachlorophene	ND	100	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
N-Nitrosodi-n-propyl-amine	ND	10	ug/L	SW846 8270C
o-Toluidine	ND	20	ug/L	SW846 8270C
Hexachloroethane	ND	10	ug/L	SW846 8270C
Nitrobenzene	ND	10	ug/L	SW846 8270C
2-Methylnaphthalene	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 #...: SL1265 **Work Order #...:** MR3TT1AA **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
N-Nitrosodi-n-butylamine	ND	10	ug/L	SW846 8270C
Dimethyl phthalate	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

(Continued on next page)

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: SL1265 **Work Order #...:** MR3TT1AA **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 #...: SL1265 **Work Order #...:** MR3TT1AA **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	46	(19 - 86)
Phenol-d5	30	(10 - 71)
Nitrobenzene-d5	70	(44 - 100)
2-Fluorobiphenyl	66	(44 - 99)
2,4,6-Tribromophenol	74	(43 - 115)
Terphenyl-d14	83	(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 #: F2D180000-120 B **Work Order #:** MR3TT1AA **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Unknown		4.1 J	M	3.6383	ug/L
Unknown aldol condensate		17 J	M	3.9699	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 #...: SL1265 **Work Order #...:** MR4VW1AA **Matrix.....:** WATER
MB Lot-Sample #: F2D200000-079

Prep Date.....: 04/20/12
Analysis Date..: 04/25/12 **Prep Batch #...:** 2111079
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
1,4-Dioxane	ND	10	ug/L	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	53	(19 - 86)
Phenol-d5	35	(10 - 71)
Nitrobenzene-d5	84	(44 - 100)
2-Fluorobiphenyl	83	(44 - 99)
2,4,6-Tribromophenol	96	(43 - 115)
Terphenyl-d14	98	(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 #: F2D200000-079 B **Work Order #:** MR4VW1AA **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Unknown		38 J	M	3.3815	ug/L
Unknown aldol condensate		25 J	M	3.9645	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 #...: SL1265 Work Order #...: MR3TT1AC-LCS Matrix.....: WATER
LCS Lot-Sample#: F2D180000-120 MR3TT1AD-LCSD
Prep Date.....: 04/18/12 Analysis Date..: 04/20/12
Prep Batch #...: 2109120
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
3-Methylphenol & 4-Methylphenol	100	62.0	ug/L	62		SW846 8270C
	100	62.1	ug/L	62	0.19	SW846 8270C
Phenol	100	29.2	ug/L	29		SW846 8270C
	100	28.9	ug/L	29	1.1	SW846 8270C
bis(2-Chloroethyl)-ether	100	69.1	ug/L	69		SW846 8270C
	100	70.4	ug/L	70	1.8	SW846 8270C
2-Chlorophenol	100	68.2	ug/L	68		SW846 8270C
	100	69.4	ug/L	69	1.6	SW846 8270C
1,3-Dichlorobenzene	100	67.8	ug/L	68		SW846 8270C
	100	67.0	ug/L	67	1.2	SW846 8270C
1,4-Dichlorobenzene	100	66.9	ug/L	67		SW846 8270C
	100	66.9	ug/L	67	0.010	SW846 8270C
1,2-Dichlorobenzene	100	68.6	ug/L	69		SW846 8270C
	100	68.5	ug/L	68	0.13	SW846 8270C
2-Methylphenol	100	60.5	ug/L	60		SW846 8270C
	100	60.8	ug/L	61	0.61	SW846 8270C
2,2'-oxybis (1-Chloropropane)	100	62.9	ug/L	63		SW846 8270C
	100	63.7	ug/L	64	1.3	SW846 8270C
N-Nitrosodi-n-propyl-amine	100	72.4	ug/L	72		SW846 8270C
	100	73.8	ug/L	74	1.9	SW846 8270C
Hexachloroethane	100	67.2	ug/L	67		SW846 8270C
	100	66.5	ug/L	66	1.2	SW846 8270C
Nitrobenzene	100	70.9	ug/L	71		SW846 8270C
	100	72.0	ug/L	72	1.5	SW846 8270C
2-Methylnaphthalene	100	71.8	ug/L	72		SW846 8270C
	100	72.5	ug/L	73	0.97	SW846 8270C
Isophorone	100	66.2	ug/L	66		SW846 8270C
	100	67.6	ug/L	68	2.1	SW846 8270C
2-Nitrophenol	100	73.8	ug/L	74		SW846 8270C
	100	75.0	ug/L	75	1.5	SW846 8270C
2,4-Dimethylphenol	100	68.9	ug/L	69		SW846 8270C
	100	70.5	ug/L	70	2.2	SW846 8270C

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: SL1265 **Work Order #...:** MR3TT1AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: F2D180000-120 MR3TT1AD-LCSD

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
bis(2-Chloroethoxy) methane	100	71.4	ug/L	71		SW846 8270C
	100	72.6	ug/L	73	1.6	SW846 8270C
2,4-Dichlorophenol	100	72.9	ug/L	73		SW846 8270C
	100	74.9	ug/L	75	2.8	SW846 8270C
1,2,4-Trichloro-benzene	100	73.1	ug/L	73		SW846 8270C
	100	73.4	ug/L	73	0.39	SW846 8270C
Naphthalene	100	70.9	ug/L	71		SW846 8270C
	100	71.1	ug/L	71	0.35	SW846 8270C
4-Chloroaniline	100	51.6	ug/L	52		SW846 8270C
	100	55.9	ug/L	56	8.1	SW846 8270C
Hexachlorobutadiene	100	74.8	ug/L	75		SW846 8270C
	100	75.7	ug/L	76	1.1	SW846 8270C
4-Chloro-3-methylphenol	100	70.5	ug/L	70		SW846 8270C
	100	72.2	ug/L	72	2.4	SW846 8270C
Hexachlorocyclopenta-diene	100	68.0	ug/L	68		SW846 8270C
	100	66.0	ug/L	66	3.1	SW846 8270C
2,4,6-Trichloro-phenol	100	74.7	ug/L	75		SW846 8270C
	100	76.9	ug/L	77	2.9	SW846 8270C
2,4,5-Trichloro-phenol	100	77.9	ug/L	78		SW846 8270C
	100	80.0	ug/L	80	2.7	SW846 8270C
2-Chloronaphthalene	100	72.2	ug/L	72		SW846 8270C
	100	73.5	ug/L	73	1.8	SW846 8270C
2-Nitroaniline	100	70.0	ug/L	70		SW846 8270C
	100	72.0	ug/L	72	2.9	SW846 8270C
Dimethyl phthalate	100	76.0	ug/L	76		SW846 8270C
	100	78.1	ug/L	78	2.7	SW846 8270C
Acenaphthylene	100	72.8	ug/L	73		SW846 8270C
	100	74.2	ug/L	74	1.9	SW846 8270C
2,6-Dinitrotoluene	100	75.5	ug/L	75		SW846 8270C
	100	78.1	ug/L	78	3.4	SW846 8270C
3-Nitroaniline	100	64.0	ug/L	64		SW846 8270C
	100	68.7	ug/L	69	7.0	SW846 8270C

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: SL1265 **Work Order #...:** MR3TT1AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: F2D180000-120 MR3TT1AD-LCSD

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Acenaphthene	100	73.2	ug/L	73		SW846 8270C
	100	75.1	ug/L	75	2.6	SW846 8270C
2,4-Dinitrophenol	100	59.7	ug/L	60		SW846 8270C
	100	71.6	ug/L	72	18	SW846 8270C
4-Nitrophenol	100	30.9	ug/L	31		SW846 8270C
	100	30.2	ug/L	30	2.2	SW846 8270C
Dibenzofuran	100	71.9	ug/L	72		SW846 8270C
	100	73.7	ug/L	74	2.5	SW846 8270C
2,4-Dinitrotoluene	100	76.1	ug/L	76		SW846 8270C
	100	77.9	ug/L	78	2.4	SW846 8270C
Diethyl phthalate	100	75.9	ug/L	76		SW846 8270C
	100	77.9	ug/L	78	2.7	SW846 8270C
Fluorene	100	75.2	ug/L	75		SW846 8270C
	100	77.5	ug/L	77	2.9	SW846 8270C
4-Chlorophenyl phenyl ether	100	77.2	ug/L	77		SW846 8270C
	100	78.7	ug/L	79	2.0	SW846 8270C
4-Nitroaniline	100	69.8	ug/L	70		SW846 8270C
	100	71.2	ug/L	71	2.0	SW846 8270C
4,6-Dinitro-2-methylphenol	100	69.9	ug/L	70		SW846 8270C
	100	76.5	ug/L	76	9.0	SW846 8270C
Diphenylamine+N-Nitrosodip	100	88.6	ug/L	89		SW846 8270C
	100	91.0	ug/L	91	2.6	SW846 8270C
4-Bromophenyl phenyl ether	100	80.0	ug/L	80		SW846 8270C
	100	83.0	ug/L	83	3.7	SW846 8270C
Hexachlorobenzene	100	81.5	ug/L	82		SW846 8270C
	100	83.8	ug/L	84	2.7	SW846 8270C
Pentachlorophenol	100	78.2	ug/L	78		SW846 8270C
	100	80.8	ug/L	81	3.3	SW846 8270C
Phenanthrene	100	74.3	ug/L	74		SW846 8270C
	100	76.3	ug/L	76	2.6	SW846 8270C
Anthracene	100	72.7	ug/L	73		SW846 8270C
	100	74.7	ug/L	75	2.7	SW846 8270C
Carbazole	100	74.3	ug/L	74		SW846 8270C
	100	76.8	ug/L	77	3.3	SW846 8270C
Fluoranthene	100	77.5	ug/L	78		SW846 8270C
	100	79.2	ug/L	79	2.2	SW846 8270C

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: SL1265 **Work Order #...:** MR3TT1AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: F2D180000-120 MR3TT1AD-LCSD

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Pyrene	100	75.2	ug/L	75		SW846 8270C
	100	76.1	ug/L	76	1.2	SW846 8270C
Butyl benzyl phthalate	100	73.0	ug/L	73		SW846 8270C
	100	74.1	ug/L	74	1.5	SW846 8270C
Benzo(a)anthracene	100	86.4	ug/L	86		SW846 8270C
	100	88.3	ug/L	88	2.2	SW846 8270C
3,3'-Dichlorobenzidine	100	54.6	ug/L	55		SW846 8270C
	100	56.3	ug/L	56	3.1	SW846 8270C
Chrysene	100	75.5	ug/L	75		SW846 8270C
	100	77.1	ug/L	77	2.2	SW846 8270C
bis(2-Ethylhexyl) phthalate	100	74.2	ug/L	74		SW846 8270C
	100	75.6	ug/L	76	2.0	SW846 8270C
Di-n-butyl phthalate	100	75.1	ug/L	75		SW846 8270C
	100	76.9	ug/L	77	2.3	SW846 8270C
Di-n-octyl phthalate	100	75.6	ug/L	76		SW846 8270C
	100	78.4	ug/L	78	3.5	SW846 8270C
Benzo(b)fluoranthene	100	81.1	ug/L	81		SW846 8270C
	100	81.3	ug/L	81	0.27	SW846 8270C
Benzo(k)fluoranthene	100	81.9	ug/L	82		SW846 8270C
	100	85.1	ug/L	85	3.8	SW846 8270C
Benzo(a)pyrene	100	72.8	ug/L	73		SW846 8270C
	100	75.0	ug/L	75	3.0	SW846 8270C
Indeno(1,2,3-cd)pyrene	100	84.6	ug/L	85		SW846 8270C
	100	85.6	ug/L	86	1.2	SW846 8270C
Benzo(ghi)perylene	100	82.4	ug/L	82		SW846 8270C
	100	84.9	ug/L	85	3.0	SW846 8270C
Dibenz(a,h)anthracene	100	80.9	ug/L	81		SW846 8270C
	100	83.8	ug/L	84	3.6	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	48	(29 - 62)
	48	(29 - 62)
Phenol-d5	31	(20 - 42)
	31	(20 - 42)
Nitrobenzene-d5	75	(51 - 98)
	76	(51 - 98)
2-Fluorobiphenyl	75	(50 - 93)
	76	(50 - 93)
2,4,6-Tribromophenol	84	(54 - 109)
	86	(54 - 109)

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: SL1265 **Work Order #...:** MR3TT1AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: F2D180000-120 MR3TT1AD-LCSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Terphenyl-d14	88	(60 - 121)
	89	(60 - 121)

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: F2D180412 Work Order #...: MR4VW1AC Matrix.....: WATER
LCS Lot-Sample#: F2D200000-079
Prep Date.....: 04/20/12 Analysis Date..: 04/25/12
Prep Batch #...: 2111079
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Phenol	100	31.4	ug/L	31	SW846 8270C
bis(2-Chloroethyl)-ether	100	73.7	ug/L	74	SW846 8270C
2-Chlorophenol	100	74.7	ug/L	75	SW846 8270C
2-Methylphenol	100	66.9	ug/L	67	SW846 8270C
2,2'-oxybis (1-Chloropropane)	100	65.9	ug/L	66	SW846 8270C
N-Nitrosodi-n-propyl-amine	100	78.5	ug/L	78	SW846 8270C
Hexachloroethane	100	75.7	ug/L	76	SW846 8270C
Nitrobenzene	100	74.5	ug/L	74	SW846 8270C
Isophorone	100	69.8	ug/L	70	SW846 8270C
2-Nitrophenol	100	78.2	ug/L	78	SW846 8270C
2,4-Dimethylphenol	100	76.0	ug/L	76	SW846 8270C
bis(2-Chloroethoxy) methane	100	75.2	ug/L	75	SW846 8270C
2,4-Dichlorophenol	100	81.0	ug/L	81	SW846 8270C
1,2,4-Trichloro-benzene	100	81.2	ug/L	81	SW846 8270C
Naphthalene	100	76.6	ug/L	77	SW846 8270C
4-Chloroaniline	100	50.8	ug/L	51	SW846 8270C
Hexachlorobutadiene	100	82.7	ug/L	83	SW846 8270C
4-Chloro-3-methylphenol	100	79.3	ug/L	79	SW846 8270C
2-Methylnaphthalene	100	79.7	ug/L	80	SW846 8270C
Hexachlorocyclopenta-diene	100	104 a	ug/L	104	SW846 8270C
2,4,6-Trichloro-phenol	100	84.1	ug/L	84	SW846 8270C
2,4,5-Trichloro-phenol	100	87.6	ug/L	88	SW846 8270C
2-Nitroaniline	100	76.5	ug/L	77	SW846 8270C
Dimethyl phthalate	100	85.7	ug/L	86	SW846 8270C
Acenaphthylene	100	81.1	ug/L	81	SW846 8270C
2,6-Dinitrotoluene	100	84.4	ug/L	84	SW846 8270C

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: F2D180412 **Work Order #...:** MR4VW1AC **Matrix.....:** WATER
LCS Lot-Sample#: F2D200000-079

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
3-Nitroaniline	100	62.2	ug/L	62	SW846 8270C
Acenaphthene	100	80.1	ug/L	80	SW846 8270C
2,4-Dinitrophenol	100	85.9	ug/L	86	SW846 8270C
4-Nitrophenol	100	33.9	ug/L	34	SW846 8270C
Dibenzofuran	100	80.3	ug/L	80	SW846 8270C
2,4-Dinitrotoluene	100	85.1	ug/L	85	SW846 8270C
Diethyl phthalate	100	83.7	ug/L	84	SW846 8270C
4-Chlorophenyl phenyl ether	100	85.8	ug/L	86	SW846 8270C
Fluorene	100	83.4	ug/L	83	SW846 8270C
4-Nitroaniline	100	77.2	ug/L	77	SW846 8270C
4,6-Dinitro-2-methylphenol	100	84.5	ug/L	84	SW846 8270C
N-Nitrosodiphenylamine	100	99.7	ug/L	100	SW846 8270C
4-Bromophenyl phenyl ether	100	88.7	ug/L	89	SW846 8270C
Hexachlorobenzene	100	91.9	ug/L	92	SW846 8270C
Pentachlorophenol	100	90.9	ug/L	91	SW846 8270C
Phenanthrene	100	81.5	ug/L	82	SW846 8270C
Anthracene	100	80.0	ug/L	80	SW846 8270C
Carbazole	100	81.6	ug/L	82	SW846 8270C
Di-n-butyl phthalate	100	81.2	ug/L	81	SW846 8270C
Fluoranthene	100	85.8	ug/L	86	SW846 8270C
Pyrene	100	79.8	ug/L	80	SW846 8270C
Butyl benzyl phthalate	100	76.3	ug/L	76	SW846 8270C
3,3'-Dichlorobenzidine	100	61.3	ug/L	61	SW846 8270C
Benzo(a)anthracene	100	94.1	ug/L	94	SW846 8270C
Chrysene	100	81.7	ug/L	82	SW846 8270C
bis(2-Ethylhexyl) phthalate	100	80.4	ug/L	80	SW846 8270C
Di-n-octyl phthalate	100	82.0	ug/L	82	SW846 8270C
Benzo(b)fluoranthene	100	86.2	ug/L	86	SW846 8270C
Benzo(k)fluoranthene	100	91.3	ug/L	91	SW846 8270C
Benzo(a)pyrene	100	83.4	ug/L	83	SW846 8270C
Indeno(1,2,3-cd)pyrene	100	94.6	ug/L	95	SW846 8270C
Dibenz(a,h)anthracene	100	91.3	ug/L	91	SW846 8270C
Benzo(ghi)perylene	100	92.6	ug/L	93	SW846 8270C

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: F2D180412 **Work Order #...:** MR4VW1AC **Matrix.....:** WATER
LCS Lot-Sample#: F2D200000-079

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
3-Methylphenol & 4-Methylphenol	**100**	**68.6**	**ug/L**	**69**	**SW846 8270C**
1,2-Dichlorobenzene	**100**	**78.0**	**ug/L**	**78**	**SW846 8270C**
1,3-Dichlorobenzene	**100**	**77.2**	**ug/L**	**77**	**SW846 8270C**
1,4-Dichlorobenzene	**100**	**76.4**	**ug/L**	**76**	**SW846 8270C**
2-Chloronaphthalene	**100**	**79.3**	**ug/L**	**79**	**SW846 8270C**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	51	(29 - 62)
Phenol-d5	33	(20 - 42)
Nitrobenzene-d5	79	(51 - 98)
2-Fluorobiphenyl	83	(50 - 93)
2,4,6-Tribromophenol	94	(54 - 109)
Terphenyl-d14	94	(60 - 121)

NOTE(S):

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

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: F2D180412 **Work Order #...:** MR3E51AD-MS **Matrix.....:** WATER
MS Lot-Sample #: F2D180412-003 MR3E51AE-MSD
Date Sampled...: 04/16/12 **Date Received..:** 04/18/12
Prep Date.....: 04/20/12 **Analysis Date..:** 04/25/12
Prep Batch #...: 2111079
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Phenol	ND	187	82.8	ug/L	44		SW846 8270C
	ND	194	89.4	ug/L	46	7.7	SW846 8270C
bis(2-Chloroethyl)-ether	ND	187	136	ug/L	73		SW846 8270C
	ND	194	147	ug/L	76	7.7	SW846 8270C
2-Chlorophenol	ND	187	144	ug/L	77		SW846 8270C
	ND	194	154	ug/L	80	7.1	SW846 8270C
2-Methylphenol	ND	187	135	ug/L	72		SW846 8270C
	ND	194	147	ug/L	76	8.2	SW846 8270C
3-Methylphenol & 4-Methylphenol	ND	187	146	ug/L	78		SW846 8270C
	ND	194	158	ug/L	82	7.8	SW846 8270C
2,2'-oxybis (1-Chloropropane)	ND	187	122	ug/L	65		SW846 8270C
	ND	194	131	ug/L	67	6.6	SW846 8270C
N-Nitrosodi-n-propyl-amine	ND	187	145	ug/L	77		SW846 8270C
	ND	194	156	ug/L	80	7.1	SW846 8270C
Hexachloroethane	ND	187	139	ug/L	74		SW846 8270C
	ND	194	154	ug/L	79	10	SW846 8270C
Nitrobenzene	ND	187	137	ug/L	73		SW846 8270C
	ND	194	150	ug/L	77	8.8	SW846 8270C
Isophorone	ND	187	128	ug/L	68		SW846 8270C
	ND	194	138	ug/L	71	7.7	SW846 8270C
2-Nitrophenol	ND	187	146	ug/L	78		SW846 8270C
	ND	194	159	ug/L	82	9.0	SW846 8270C
2,4-Dimethylphenol	ND	187	142	ug/L	76		SW846 8270C
	ND	194	154	ug/L	80	8.6	SW846 8270C
bis(2-Chloroethoxy) methane	ND	187	139	ug/L	74		SW846 8270C
	ND	194	150	ug/L	77	7.5	SW846 8270C
2,4-Dichlorophenol	ND	187	151	ug/L	81		SW846 8270C
	ND	194	164	ug/L	85	7.9	SW846 8270C

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: F2D180412 **Work Order #...:** MR3E51AD-MS **Matrix.....:** WATER
MS Lot-Sample #: F2D180412-003 MR3E51AE-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
1,2,4-Trichloro-benzene	ND	187	148	ug/L	79		SW846 8270C
	ND	194	164	ug/L	85	9.8	SW846 8270C
Naphthalene	ND	187	142	ug/L	76		SW846 8270C
	ND	194	154	ug/L	79	8.3	SW846 8270C
4-Chloroaniline	ND	187	96.4	ug/L	51		SW846 8270C
	ND	194	85.4	ug/L	44	12	SW846 8270C
Hexachlorobutadiene	ND	187	153	ug/L	82		SW846 8270C
	ND	194	168	ug/L	87	9.3	SW846 8270C
4-Chloro-3-methylphenol	ND	187	152	ug/L	81		SW846 8270C
	ND	194	161	ug/L	83	5.4	SW846 8270C
2-Methylnaphthalene	ND	187	147	ug/L	79		SW846 8270C
	ND	194	160	ug/L	83	8.7	SW846 8270C
Hexachlorocyclopenta-diene	ND	187	185	ug/L	99		SW846 8270C
	ND	194	211	ug/L	109	13	SW846 8270C
2,4,6-Trichloro-phenol	ND	187	155	ug/L	83		SW846 8270C
	ND	194	168	ug/L	87	8.5	SW846 8270C
2,4,5-Trichloro-phenol	ND	187	163	ug/L	87		SW846 8270C
	ND	194	176	ug/L	91	7.2	SW846 8270C
2-Nitroaniline	ND	187	144	ug/L	77		SW846 8270C
	ND	194	154	ug/L	79	6.9	SW846 8270C
Dimethyl phthalate	ND	187	157	ug/L	84		SW846 8270C
	ND	194	170	ug/L	88	7.9	SW846 8270C
Acenaphthylene	ND	187	151	ug/L	81		SW846 8270C
	ND	194	163	ug/L	84	8.0	SW846 8270C
2,6-Dinitrotoluene	ND	187	158	ug/L	84		SW846 8270C
	ND	194	169	ug/L	87	6.6	SW846 8270C
3-Nitroaniline	ND	187	126	ug/L	67		SW846 8270C
	ND	194	124	ug/L	64	1.4	SW846 8270C
Acenaphthene	ND	187	148	ug/L	79		SW846 8270C
	ND	194	161	ug/L	83	8.8	SW846 8270C
2,4-Dinitrophenol	ND	187	150	ug/L	80		SW846 8270C
	ND	194	171	ug/L	88	13	SW846 8270C
4-Nitrophenol	ND	187	93.8	ug/L	50		SW846 8270C
	ND	194	99.4	ug/L	51	5.8	SW846 8270C

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: F2D180412 **Work Order #...:** MR3E51AD-MS **Matrix.....:** WATER
MS Lot-Sample #: F2D180412-003 MR3E51AE-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Dibenzofuran	ND	187	149	ug/L	79		SW846 8270C
	ND	194	161	ug/L	83	7.8	SW846 8270C
2,4-Dinitrotoluene	ND	187	160	ug/L	85		SW846 8270C
	ND	194	171	ug/L	88	6.4	SW846 8270C
Diethyl phthalate	ND	187	157	ug/L	84		SW846 8270C
	ND	194	166	ug/L	86	5.5	SW846 8270C
4-Chlorophenyl phenyl ether	ND	187	160	ug/L	86		SW846 8270C
	ND	194	172	ug/L	89	7.1	SW846 8270C
Fluorene	ND	187	155	ug/L	83		SW846 8270C
	ND	194	167	ug/L	86	7.4	SW846 8270C
4-Nitroaniline	ND	187	148	ug/L	79		SW846 8270C
	ND	194	148	ug/L	76	0.0	SW846 8270C
4,6-Dinitro-2-methylphenol	ND	187	153	ug/L	82		SW846 8270C
	ND	194	170	ug/L	88	10	SW846 8270C
N-Nitrosodiphenylamine	ND	187	184	ug/L	98		SW846 8270C
	ND	194	201	ug/L	104	8.7	SW846 8270C
4-Bromophenyl phenyl ether	ND	187	165	ug/L	88		SW846 8270C
	ND	194	180	ug/L	93	8.8	SW846 8270C
Hexachlorobenzene	ND	187	170	ug/L	91		SW846 8270C
	ND	194	186	ug/L	96	8.8	SW846 8270C
Pentachlorophenol	ND	187	170	ug/L	91		SW846 8270C
	ND	194	185	ug/L	96	8.4	SW846 8270C
Phenanthrene	ND	187	152	ug/L	81		SW846 8270C
	ND	194	163	ug/L	84	7.2	SW846 8270C
Anthracene	ND	187	150	ug/L	80		SW846 8270C
	ND	194	162	ug/L	83	7.6	SW846 8270C
Carbazole	ND	187	154	ug/L	82		SW846 8270C
	ND	194	162	ug/L	84	5.6	SW846 8270C
Di-n-butyl phthalate	ND	187	152	ug/L	81		SW846 8270C
	ND	194	164	ug/L	84	7.0	SW846 8270C
Fluoranthene	ND	187	160	ug/L	86		SW846 8270C
	ND	194	174	ug/L	90	8.1	SW846 8270C
Pyrene	ND	187	148	ug/L	79		SW846 8270C
	ND	194	158	ug/L	81	6.2	SW846 8270C
Butyl benzyl phthalate	ND	187	143	ug/L	77		SW846 8270C
	ND	194	153	ug/L	79	6.5	SW846 8270C

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: F2D180412 **Work Order #...:** MR3E51AD-MS **Matrix.....:** WATER
MS Lot-Sample #: F2D180412-003 MR3E51AE-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
3,3'-Dichlorobenzidine	ND	187	116	ug/L	62		SW846 8270C
	ND	194	112	ug/L	58	3.6	SW846 8270C
Benzo(a)anthracene	ND	187	176	ug/L	94		SW846 8270C
	ND	194	188	ug/L	97	6.7	SW846 8270C
Chrysene	ND	187	153	ug/L	82		SW846 8270C
	ND	194	162	ug/L	83	5.5	SW846 8270C
bis(2-Ethylhexyl) phthalate	ND	187	146	ug/L	78		SW846 8270C
	ND	194	156	ug/L	80	6.2	SW846 8270C
Di-n-octyl phthalate	ND	187	152	ug/L	81		SW846 8270C
	ND	194	161	ug/L	83	6.0	SW846 8270C
Benzo(b)fluoranthene	ND	187	166	ug/L	89		SW846 8270C
	ND	194	176	ug/L	91	5.5	SW846 8270C
Benzo(k)fluoranthene	ND	187	164	ug/L	88		SW846 8270C
	ND	194	179	ug/L	92	8.7	SW846 8270C
Benzo(a)pyrene	ND	187	157	ug/L	84		SW846 8270C
	ND	194	168	ug/L	87	7.3	SW846 8270C
Indeno(1,2,3-cd)pyrene	ND	187	180	ug/L	96		SW846 8270C
	ND	194	196	ug/L	101	8.3	SW846 8270C
Dibenz(a,h)anthracene	ND	187	170	ug/L	91		SW846 8270C
	ND	194	184	ug/L	95	7.6	SW846 8270C
Benzo(ghi)perylene	ND	187	173	ug/L	93		SW846 8270C
	ND	194	188	ug/L	97	8.1	SW846 8270C
1,2-Dichlorobenzene	ND	187	144	ug/L	77		SW846 8270C
	ND	194	156	ug/L	80	7.7	SW846 8270C
1,3-Dichlorobenzene	ND	187	142	ug/L	76		SW846 8270C
	ND	194	154	ug/L	80	8.6	SW846 8270C
1,4-Dichlorobenzene	ND	187	141	ug/L	75		SW846 8270C
	ND	194	154	ug/L	79	8.6	SW846 8270C
2-Chloronaphthalene	ND	187	147	ug/L	78		SW846 8270C
	ND	194	160	ug/L	83	8.7	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	63	(19 - 86)
	65	(19 - 86)
Phenol-d5	47	(10 - 71)
	50	(10 - 71)
Nitrobenzene-d5	78	(44 - 100)
	81	(44 - 100)

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: F2D180412 **Work Order #...:** MR3E51AD-MS **Matrix.....:** WATER
MS Lot-Sample #: F2D180412-003 MR3E51AE-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorobiphenyl	83	(44 - 99)
	86	(44 - 99)
2,4,6-Tribromophenol	95	(43 - 115)
	100	(43 - 115)
Terphenyl-d14	94	(45 - 131)
	96	(45 - 131)

NOTE(S):

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

Bold print denotes control parameters

Phenols

CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2KK55

GC Semivolatiles

Lot-Sample #...: F2D170442-001 **Work Order #...:** MR2TE1AC **Matrix.....:** WATER
Date Sampled...: 04/13/12 **Date Received..:** 04/17/12
Prep Date.....: 04/19/12 **Analysis Date..:** 04/24/12
Prep Batch #...: 2110096
Dilution Factor: 1 **Method.....:** SW846 8040A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2-Chlorophenol	ND	5.0	ug/L	2.2
4-Chloro-3-methylphenol	ND	5.0	ug/L	2.4
3-Methylphenol & 4-Methylphenol	ND	5.0	ug/L	2.2
2-Methylphenol	ND	5.0	ug/L	2.2
2,4-Dichlorophenol	ND	5.0	ug/L	2.1
2,6-Dichlorophenol	ND	5.0	ug/L	2.1
2,4-Dimethylphenol	ND	5.0	ug/L	2.1
2,4-Dinitrophenol	ND	5.0	ug/L	2.4
4,6-Dinitro-2-methylphenol	ND	5.0	ug/L	2.2
Dinoseb	ND	5.0	ug/L	2.4
2-Nitrophenol	ND	5.0	ug/L	2.3
4-Nitrophenol	ND	5.0	ug/L	2.2
Pentachlorophenol	ND	5.0	ug/L	2.4
Phenol	ND	5.0	ug/L	2.3
2,3,4,6-Tetrachlorophenol	ND	5.0	ug/L	2.0
2,4,5-Trichlorophenol	ND	5.0	ug/L	2.2
2,4,6-Trichlorophenol	ND	5.0	ug/L	2.2

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2,4,6-Tribromophenol	91	(54 - 139)
2-Fluorophenol	79	(34 - 121)

CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2KK67

GC Semivolatiles

Lot-Sample #...: F2D170442-002 **Work Order #...:** MR2TG1AC **Matrix.....:** WATER
Date Sampled...: 04/12/12 **Date Received..:** 04/17/12
Prep Date.....: 04/19/12 **Analysis Date..:** 04/24/12
Prep Batch #...: 2110096
Dilution Factor: 1 **Method.....:** SW846 8040A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2-Chlorophenol	ND	5.0	ug/L	2.2
4-Chloro-3-methylphenol	ND	5.0	ug/L	2.4
3-Methylphenol & 4-Methylphenol	ND	5.0	ug/L	2.2
2-Methylphenol	ND	5.0	ug/L	2.2
2,4-Dichlorophenol	ND	5.0	ug/L	2.1
2,6-Dichlorophenol	ND	5.0	ug/L	2.1
2,4-Dimethylphenol	ND	5.0	ug/L	2.1
2,4-Dinitrophenol	ND	5.0	ug/L	2.4
4,6-Dinitro-2-methylphenol	ND	5.0	ug/L	2.2
Dinoseb	ND	5.0	ug/L	2.4
2-Nitrophenol	ND	5.0	ug/L	2.3
4-Nitrophenol	ND	5.0	ug/L	2.2
Pentachlorophenol	ND	5.0	ug/L	2.4
Phenol	ND	5.0	ug/L	2.3
2,3,4,6-Tetrachlorophenol	ND	5.0	ug/L	2.0
2,4,5-Trichlorophenol	ND	5.0	ug/L	2.2
2,4,6-Trichlorophenol	ND	5.0	ug/L	2.2

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2,4,6-Tribromophenol	90	(54 - 139)
2-Fluorophenol	77	(34 - 121)

CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2KK60

GC Semivolatiles

Lot-Sample #...: F2D170442-003 **Work Order #...:** MR2TH1AC **Matrix.....:** WATER
Date Sampled...: 04/13/12 **Date Received..:** 04/17/12
Prep Date.....: 04/19/12 **Analysis Date..:** 04/24/12
Prep Batch #...: 2110096
Dilution Factor: 1 **Method.....:** SW846 8040A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2-Chlorophenol	ND	5.0	ug/L	2.2
4-Chloro-3-methylphenol	ND	5.0	ug/L	2.4
3-Methylphenol & 4-Methylphenol	ND	5.0	ug/L	2.2
2-Methylphenol	ND	5.0	ug/L	2.2
2,4-Dichlorophenol	ND	5.0	ug/L	2.1
2,6-Dichlorophenol	ND	5.0	ug/L	2.1
2,4-Dimethylphenol	ND	5.0	ug/L	2.1
2,4-Dinitrophenol	ND	5.0	ug/L	2.4
4,6-Dinitro-2-methylphenol	ND	5.0	ug/L	2.2
Dinoseb	ND	5.0	ug/L	2.4
2-Nitrophenol	ND	5.0	ug/L	2.3
4-Nitrophenol	ND	5.0	ug/L	2.2
Pentachlorophenol	ND	5.0	ug/L	2.4
Phenol	ND	5.0	ug/L	2.3
2,3,4,6-Tetrachlorophenol	ND	5.0	ug/L	2.0
2,4,5-Trichlorophenol	ND	5.0	ug/L	2.2
2,4,6-Trichlorophenol	ND	5.0	ug/L	2.2

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2,4,6-Tribromophenol	83	(54 - 139)
2-Fluorophenol	71	(34 - 121)

CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2KK12

GC Semivolatiles

Lot-Sample #...: F2D170442-004 **Work Order #...:** MR2TJ1AC **Matrix.....:** WATER
Date Sampled...: 04/13/12 **Date Received..:** 04/17/12
Prep Date.....: 04/19/12 **Analysis Date..:** 04/24/12
Prep Batch #...: 2110096
Dilution Factor: 1 **Method.....:** SW846 8040A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2-Chlorophenol	ND	5.0	ug/L	2.2
4-Chloro-3-methylphenol	ND	5.0	ug/L	2.4
3-Methylphenol & 4-Methylphenol	ND	5.0	ug/L	2.2
2-Methylphenol	ND	5.0	ug/L	2.2
2,4-Dichlorophenol	ND	5.0	ug/L	2.1
2,6-Dichlorophenol	ND	5.0	ug/L	2.1
2,4-Dimethylphenol	ND	5.0	ug/L	2.1
2,4-Dinitrophenol	ND	5.0	ug/L	2.4
4,6-Dinitro-2-methylphenol	ND	5.0	ug/L	2.2
Dinoseb	ND	5.0	ug/L	2.4
2-Nitrophenol	ND	5.0	ug/L	2.3
4-Nitrophenol	ND	5.0	ug/L	2.2
Pentachlorophenol	ND	5.0	ug/L	2.4
Phenol	ND	5.0	ug/L	2.3
2,3,4,6-Tetrachlorophenol	ND	5.0	ug/L	2.0
2,4,5-Trichlorophenol	ND	5.0	ug/L	2.2
2,4,6-Trichlorophenol	ND	5.0	ug/L	2.2

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2,4,6-Tribromophenol	91	(54 - 139)
2-Fluorophenol	73	(34 - 121)

CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2KKH1

GC Semivolatiles

Lot-Sample #...: F2D170442-005 **Work Order #...:** MR2TK1AC **Matrix.....:** WATER
Date Sampled...: 04/13/12 **Date Received..:** 04/17/12
Prep Date.....: 04/19/12 **Analysis Date..:** 04/24/12
Prep Batch #...: 2110096
Dilution Factor: 1 **Method.....:** SW846 8040A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2-Chlorophenol	ND	5.0	ug/L	2.2
4-Chloro-3-methylphenol	ND	5.0	ug/L	2.4
3-Methylphenol & 4-Methylphenol	ND	5.0	ug/L	2.2
2-Methylphenol	ND	5.0	ug/L	2.2
2,4-Dichlorophenol	ND	5.0	ug/L	2.1
2,6-Dichlorophenol	ND	5.0	ug/L	2.1
2,4-Dimethylphenol	ND	5.0	ug/L	2.1
2,4-Dinitrophenol	ND	5.0	ug/L	2.4
4,6-Dinitro-2-methylphenol	ND	5.0	ug/L	2.2
Dinoseb	ND	5.0	ug/L	2.4
2-Nitrophenol	ND	5.0	ug/L	2.3
4-Nitrophenol	ND	5.0	ug/L	2.2
Pentachlorophenol	ND	5.0	ug/L	2.4
Phenol	ND	5.0	ug/L	2.3
2,3,4,6-Tetrachlorophenol	ND	5.0	ug/L	2.0
2,4,5-Trichlorophenol	ND	5.0	ug/L	2.2
2,4,6-Trichlorophenol	ND	5.0	ug/L	2.2

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2,4,6-Tribromophenol	82	(54 - 139)
2-Fluorophenol	75	(34 - 121)

CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2KK82

GC Semivolatiles

Lot-Sample #...: F2D170442-006 **Work Order #...:** MR2TL1AC **Matrix.....:** WATER
Date Sampled...: 04/13/12 **Date Received..:** 04/17/12
Prep Date.....: 04/19/12 **Analysis Date..:** 04/24/12
Prep Batch #...: 2110096
Dilution Factor: 1 **Method.....:** SW846 8040A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2-Chlorophenol	ND	5.0	ug/L	2.2
4-Chloro-3-methylphenol	ND	5.0	ug/L	2.4
3-Methylphenol & 4-Methylphenol	ND	5.0	ug/L	2.2
2-Methylphenol	ND	5.0	ug/L	2.2
2,4-Dichlorophenol	ND	5.0	ug/L	2.1
2,6-Dichlorophenol	ND	5.0	ug/L	2.1
2,4-Dimethylphenol	ND	5.0	ug/L	2.1
2,4-Dinitrophenol	ND	5.0	ug/L	2.4
4,6-Dinitro-2-methylphenol	ND	5.0	ug/L	2.2
Dinoseb	ND	5.0	ug/L	2.4
2-Nitrophenol	ND	5.0	ug/L	2.3
4-Nitrophenol	ND	5.0	ug/L	2.2
Pentachlorophenol	ND	5.0	ug/L	2.4
Phenol	ND	5.0	ug/L	2.3
2,3,4,6-Tetrachlorophenol	ND	5.0	ug/L	2.0
2,4,5-Trichlorophenol	ND	5.0	ug/L	2.2
2,4,6-Trichlorophenol	ND	5.0	ug/L	2.2

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2,4,6-Tribromophenol	90	(54 - 139)
2-Fluorophenol	76	(34 - 121)

CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2KKH0

GC Semivolatiles

Lot-Sample #...: F2D170442-007 **Work Order #...:** MR2TM1AC **Matrix.....:** WATER
Date Sampled...: 04/13/12 **Date Received..:** 04/17/12
Prep Date.....: 04/19/12 **Analysis Date..:** 04/24/12
Prep Batch #...: 2110096
Dilution Factor: 1 **Method.....:** SW846 8040A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2-Chlorophenol	ND	5.0	ug/L	2.2
4-Chloro-3-methylphenol	ND	5.0	ug/L	2.4
3-Methylphenol & 4-Methylphenol	ND	5.0	ug/L	2.2
2-Methylphenol	ND	5.0	ug/L	2.2
2,4-Dichlorophenol	ND	5.0	ug/L	2.1
2,6-Dichlorophenol	ND	5.0	ug/L	2.1
2,4-Dimethylphenol	ND	5.0	ug/L	2.1
2,4-Dinitrophenol	ND	5.0	ug/L	2.4
4,6-Dinitro-2-methylphenol	ND	5.0	ug/L	2.2
Dinoseb	ND	5.0	ug/L	2.4
2-Nitrophenol	ND	5.0	ug/L	2.3
4-Nitrophenol	ND	5.0	ug/L	2.2
Pentachlorophenol	ND	5.0	ug/L	2.4
Phenol	ND	5.0	ug/L	2.3
2,3,4,6-Tetrachlorophenol	ND	5.0	ug/L	2.0
2,4,5-Trichlorophenol	ND	5.0	ug/L	2.2
2,4,6-Trichlorophenol	ND	5.0	ug/L	2.2

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2,4,6-Tribromophenol	95	(54 - 139)
2-Fluorophenol	77	(34 - 121)

CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2KK17

GC Semivolatiles

Lot-Sample #...: F2D170442-008 **Work Order #...:** MR2TN1AC **Matrix.....:** WATER
Date Sampled...: 04/12/12 **Date Received..:** 04/17/12
Prep Date.....: 04/19/12 **Analysis Date..:** 04/24/12
Prep Batch #...: 2110096
Dilution Factor: 1 **Method.....:** SW846 8040A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2-Chlorophenol	ND	5.0	ug/L	2.2
4-Chloro-3-methylphenol	ND	5.0	ug/L	2.4
3-Methylphenol & 4-Methylphenol	ND	5.0	ug/L	2.2
2-Methylphenol	ND	5.0	ug/L	2.2
2,4-Dichlorophenol	ND	5.0	ug/L	2.1
2,6-Dichlorophenol	ND	5.0	ug/L	2.1
2,4-Dimethylphenol	ND	5.0	ug/L	2.1
2,4-Dinitrophenol	ND	5.0	ug/L	2.4
4,6-Dinitro-2-methylphenol	ND	5.0	ug/L	2.2
Dinoseb	ND	5.0	ug/L	2.4
2-Nitrophenol	ND	5.0	ug/L	2.3
4-Nitrophenol	ND	5.0	ug/L	2.2
Pentachlorophenol	ND	5.0	ug/L	2.4
Phenol	ND	5.0	ug/L	2.3
2,3,4,6-Tetrachlorophenol	ND	5.0	ug/L	2.0
2,4,5-Trichlorophenol	ND	5.0	ug/L	2.2
2,4,6-Trichlorophenol	ND	5.0	ug/L	2.2

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2,4,6-Tribromophenol	93	(54 - 139)
2-Fluorophenol	78	(34 - 121)

CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2KK02

GC Semivolatiles

Lot-Sample #...: F2D170442-009 **Work Order #...:** MR2TP1AC **Matrix.....:** WATER
Date Sampled...: 04/12/12 **Date Received..:** 04/17/12
Prep Date.....: 04/19/12 **Analysis Date..:** 04/25/12
Prep Batch #...: 2110096
Dilution Factor: 1 **Method.....:** SW846 8040A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2-Chlorophenol	ND	5.0	ug/L	2.2
4-Chloro-3-methylphenol	ND	5.0	ug/L	2.4
3-Methylphenol & 4-Methylphenol	ND	5.0	ug/L	2.2
2-Methylphenol	ND	5.0	ug/L	2.2
2,4-Dichlorophenol	ND	5.0	ug/L	2.1
2,6-Dichlorophenol	ND	5.0	ug/L	2.1
2,4-Dimethylphenol	ND	5.0	ug/L	2.1
2,4-Dinitrophenol	ND	5.0	ug/L	2.4
4,6-Dinitro-2-methylphenol	ND	5.0	ug/L	2.2
Dinoseb	ND	5.0	ug/L	2.4
2-Nitrophenol	ND	5.0	ug/L	2.3
4-Nitrophenol	ND	5.0	ug/L	2.2
Pentachlorophenol	ND	5.0	ug/L	2.4
Phenol	ND	5.0	ug/L	2.3
2,3,4,6-Tetrachlorophenol	ND	5.0	ug/L	2.0
2,4,5-Trichlorophenol	ND	5.0	ug/L	2.2
2,4,6-Trichlorophenol	ND	5.0	ug/L	2.2

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2,4,6-Tribromophenol	90	(54 - 139)
2-Fluorophenol	76	(34 - 121)

CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2KK34

GC Semivolatiles

Lot-Sample #...: F2D170442-010 **Work Order #...:** MR2TQ1AC **Matrix.....:** WATER
Date Sampled...: 04/13/12 **Date Received..:** 04/17/12
Prep Date.....: 04/19/12 **Analysis Date..:** 04/25/12
Prep Batch #...: 2110096
Dilution Factor: 1 **Method.....:** SW846 8040A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2-Chlorophenol	ND	5.0	ug/L	2.2
4-Chloro-3-methylphenol	ND	5.0	ug/L	2.4
3-Methylphenol & 4-Methylphenol	ND	5.0	ug/L	2.2
2-Methylphenol	ND	5.0	ug/L	2.2
2,4-Dichlorophenol	ND	5.0	ug/L	2.1
2,6-Dichlorophenol	ND	5.0	ug/L	2.1
2,4-Dimethylphenol	ND	5.0	ug/L	2.1
2,4-Dinitrophenol	ND	5.0	ug/L	2.4
4,6-Dinitro-2-methylphenol	ND	5.0	ug/L	2.2
Dinoseb	ND	5.0	ug/L	2.4
2-Nitrophenol	ND	5.0	ug/L	2.3
4-Nitrophenol	ND	5.0	ug/L	2.2
Pentachlorophenol	ND	5.0	ug/L	2.4
Phenol	ND	5.0	ug/L	2.3
2,3,4,6-Tetrachlorophenol	ND	5.0	ug/L	2.0
2,4,5-Trichlorophenol	ND	5.0	ug/L	2.2
2,4,6-Trichlorophenol	ND	5.0	ug/L	2.2

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2,4,6-Tribromophenol	95	(54 - 139)
2-Fluorophenol	80	(34 - 121)

CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2KK39

GC Semivolatiles

Lot-Sample #...: F2D170442-011 **Work Order #...:** MR2TR1AC **Matrix.....:** WATER
Date Sampled...: 04/13/12 **Date Received..:** 04/17/12
Prep Date.....: 04/19/12 **Analysis Date..:** 04/25/12
Prep Batch #...: 2110096
Dilution Factor: 1 **Method.....:** SW846 8040A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2-Chlorophenol	ND	5.0	ug/L	2.2
4-Chloro-3-methylphenol	ND	5.0	ug/L	2.4
3-Methylphenol & 4-Methylphenol	ND	5.0	ug/L	2.2
2-Methylphenol	ND	5.0	ug/L	2.2
2,4-Dichlorophenol	ND	5.0	ug/L	2.1
2,6-Dichlorophenol	ND	5.0	ug/L	2.1
2,4-Dimethylphenol	ND	5.0	ug/L	2.1
2,4-Dinitrophenol	ND	5.0	ug/L	2.4
4,6-Dinitro-2-methylphenol	ND	5.0	ug/L	2.2
Dinoseb	ND	5.0	ug/L	2.4
2-Nitrophenol	ND	5.0	ug/L	2.3
4-Nitrophenol	ND	5.0	ug/L	2.2
Pentachlorophenol	ND	5.0	ug/L	2.4
Phenol	ND	5.0	ug/L	2.3
2,3,4,6-Tetrachlorophenol	ND	5.0	ug/L	2.0
2,4,5-Trichlorophenol	ND	5.0	ug/L	2.2
2,4,6-Trichlorophenol	ND	5.0	ug/L	2.2

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2,4,6-Tribromophenol	3.7 *	(54 - 139)
2-Fluorophenol	2.3 *	(34 - 121)

NOTE(S):

* Surrogate recovery is outside stated control limits.

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: SL1265 **Work Order #...:** MR3591AA **Matrix.....:** WATER
MB Lot-Sample #: F2D190000-096

Prep Date.....: 04/19/12
Analysis Date..: 04/24/12 **Prep Batch #...:** 2110096
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
2-Chlorophenol	ND	5.0	ug/L	SW846 8040A
4-Chloro-3-methylphenol	ND	5.0	ug/L	SW846 8040A
3-Methylphenol & 4-Methylphenol	ND	5.0	ug/L	SW846 8040A
2-Methylphenol	ND	5.0	ug/L	SW846 8040A
2,4-Dichlorophenol	ND	5.0	ug/L	SW846 8040A
2,6-Dichlorophenol	ND	5.0	ug/L	SW846 8040A
2,4-Dimethylphenol	ND	5.0	ug/L	SW846 8040A
2,4-Dinitrophenol	ND	5.0	ug/L	SW846 8040A
4,6-Dinitro-2-methylphenol	ND	5.0	ug/L	SW846 8040A
Dinoseb	ND	5.0	ug/L	SW846 8040A
2-Nitrophenol	ND	5.0	ug/L	SW846 8040A
4-Nitrophenol	ND	5.0	ug/L	SW846 8040A
Pentachlorophenol	ND	5.0	ug/L	SW846 8040A
Phenol	ND	5.0	ug/L	SW846 8040A
2,3,4,6-Tetrachlorophenol	ND	5.0	ug/L	SW846 8040A
2,4,5-Trichloro-phenol	ND	5.0	ug/L	SW846 8040A
2,4,6-Trichloro-phenol	ND	5.0	ug/L	SW846 8040A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2,4,6-Tribromophenol	75	(54 - 139)
2-Fluorophenol	88	(34 - 121)

NOTE(S):

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

LABORATORY CONTROL SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: SL1265 **Work Order #...:** MR3591AC **Matrix.....:** WATER
LCS Lot-Sample#: F2D190000-096
Prep Date.....: 04/19/12 **Analysis Date..:** 04/24/12
Prep Batch #...: 2110096
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
2-Chlorophenol	**100**	**82.0**	**ug/L**	**82**	**SW846 8040A**
4-Chloro-3-methylphenol	**100**	**92.4**	**ug/L**	**92**	**SW846 8040A**
3-Methylphenol & 4-Methylphenol	**100**	**86.0**	**ug/L**	**86**	**SW846 8040A**
2-Methylphenol	**100**	**84.5**	**ug/L**	**85**	**SW846 8040A**
2,4-Dichlorophenol	**100**	**89.6**	**ug/L**	**90**	**SW846 8040A**
2,6-Dichlorophenol	**100**	**86.1**	**ug/L**	**86**	**SW846 8040A**
2,4-Dimethylphenol	**100**	**85.0**	**ug/L**	**85**	**SW846 8040A**
2,4-Dinitrophenol	**100**	**90.2**	**ug/L**	**90**	**SW846 8040A**
4,6-Dinitro-2-methylphenol	**100**	**106**	**ug/L**	**106**	**SW846 8040A**
Dinoseb	**100**	**94.0**	**ug/L**	**94**	**SW846 8040A**
2-Nitrophenol	**100**	**89.1**	**ug/L**	**89**	**SW846 8040A**
4-Nitrophenol	**100**	**99.4**	**ug/L**	**99**	**SW846 8040A**
Pentachlorophenol	**100**	**106**	**ug/L**	**106**	**SW846 8040A**
Phenol	**100**	**85.4**	**ug/L**	**85**	**SW846 8040A**
2,3,4,6-Tetrachlorophenol	**100**	**92.5**	**ug/L**	**92**	**SW846 8040A**
2,4,5-Trichloro-phenol	**100**	**95.0**	**ug/L**	**95**	**SW846 8040A**
2,4,6-Trichloro-phenol	**100**	**97.2**	**ug/L**	**97**	**SW846 8040A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2,4,6-Tribromophenol	99	(43 - 140)
2-Fluorophenol	83	(38 - 122)

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 #...: SL1265 **Work Order #...:** MR2TE1AD-MS **Matrix.....:** WATER
MS Lot-Sample #: F2D170442-001 MR2TE1AE-MSD
Date Sampled...: 04/13/12 **Date Received..:** 04/17/12
Prep Date.....: 04/19/12 **Analysis Date..:** 04/24/12
Prep Batch #...: 2110096
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
2-Chlorophenol	ND	193	160	ug/L	83		SW846 8040A
	ND	189	151	ug/L	80	5.7	SW846 8040A
4-Chloro-3-methylphenol	ND	193	179	ug/L	93		SW846 8040A
	ND	189	169	ug/L	89	5.6	SW846 8040A
3-Methylphenol & 4-Methylphenol	ND	193	168	ug/L	87		SW846 8040A
	ND	189	159	ug/L	84	5.1	SW846 8040A
2-Methylphenol	ND	193	165	ug/L	85		SW846 8040A
	ND	189	157	ug/L	83	4.9	SW846 8040A
2,4-Dichlorophenol	ND	193	174	ug/L	90		SW846 8040A
	ND	189	166	ug/L	88	5.0	SW846 8040A
2,6-Dichlorophenol	ND	193	168	ug/L	87		SW846 8040A
	ND	189	160	ug/L	85	4.7	SW846 8040A
2,4-Dimethylphenol	ND	193	166	ug/L	86		SW846 8040A
	ND	189	158	ug/L	84	4.8	SW846 8040A
2,4-Dinitrophenol	ND	193	176	ug/L	91		SW846 8040A
	ND	189	164	ug/L	87	6.8	SW846 8040A
4,6-Dinitro-2-methylphenol	ND	193	207	ug/L	107		SW846 8040A
	ND	189	187	ug/L	99	10	SW846 8040A
Dinoseb	ND	193	184	ug/L	95		SW846 8040A
	ND	189	164	ug/L	87	12	SW846 8040A
2-Nitrophenol	ND	193	174	ug/L	90		SW846 8040A
	ND	189	165	ug/L	87	5.1	SW846 8040A
4-Nitrophenol	ND	193	197	ug/L	102		SW846 8040A
	ND	189	177	ug/L	93	11	SW846 8040A
Pentachlorophenol	ND	193	209	ug/L	108		SW846 8040A
	ND	189	188	ug/L	99	11	SW846 8040A
Phenol	ND	193	167	ug/L	86		SW846 8040A
	ND	189	157	ug/L	83	6.2	SW846 8040A
2,3,4,6-Tetrachlorophenol	ND	193	181	ug/L	93		SW846 8040A
	ND	189	166	ug/L	88	8.4	SW846 8040A
2,4,5-Trichloro-phenol	ND	193	184	ug/L	95		SW846 8040A
	ND	189	173	ug/L	92	6.1	SW846 8040A

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MATRIX SPIKE SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: SL1265 **Work Order #...:** MR2TE1AD-MS **Matrix.....:** WATER
MS Lot-Sample #: F2D170442-001 MR2TE1AE-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
2,4,6-Trichloro-phenol	**ND**	**193**	**191**	**ug/L**	**99**		**SW846 8040A**
	ND	**189**	**180**	**ug/L**	**95**	**6.2**	**SW846 8040A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2,4,6-Tribromophenol	99	(54 - 139)
	92	(54 - 139)
2-Fluorophenol	83	(34 - 121)
	79	(34 - 121)

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: B2KFF2

GC Semivolatiles

Lot-Sample #...: F2D170439-001 **Work Order #...:** MR2R61AC **Matrix.....:** WATER
Date Sampled...: 04/13/12 **Date Received..:** 04/17/12
Prep Date.....: 04/18/12 **Analysis Date..:** 04/24/12
Prep Batch #...: 2109122
Dilution Factor: 1 **Method.....:** SW846 8081A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aldrin	**0.025 J,PG**	**0.050**	**ug/L**	**0.010**
alpha-BHC	ND	0.050	ug/L	0.010
beta-BHC	**0.45 PG**	**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	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	99	(56 - 136)
Decachlorobiphenyl	56 *	(74 - 127)

NOTE(S):

* Surrogate recovery is outside stated control limits.

J Estimated result. Result is less than RL.

PG The percent difference between the original and confirmation analyses is greater than 40%.

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: SL1265 **Work Order #...:** MR3TW1AA **Matrix.....:** WATER
MB Lot-Sample #: F2D180000-122

Prep Date.....: 04/18/12
Analysis Date..: 04/23/12 **Prep Batch #...:** 2109122
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	92	(56 - 136)
Decachlorobiphenyl	82	(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 #...: SL1265 **Work Order #...:** MR3TW1AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: F2D180000-122 MR3TW1AD-LCSD
Prep Date.....: 04/18/12 **Analysis Date..:** 04/23/12
Prep Batch #...: 2109122
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Aldrin	0.500	0.462	ug/L	92		SW846 8081A
	0.500	0.463	ug/L	93	0.21	SW846 8081A
alpha-BHC	0.500	0.488	ug/L	98		SW846 8081A
	0.500	0.488	ug/L	98	0.0	SW846 8081A
beta-BHC	0.500	0.456	ug/L	91		SW846 8081A
	0.500	0.459	ug/L	92	0.65	SW846 8081A
delta-BHC	0.500	0.780	ug/L	156		SW846 8081A
	0.500	0.791	ug/L	158	1.4	SW846 8081A
gamma-BHC (Lindane)	0.500	0.477	ug/L	95		SW846 8081A
	0.500	0.472	ug/L	94	1.0	SW846 8081A
4,4'-DDD	0.500	0.519	ug/L	104		SW846 8081A
	0.500	0.513	ug/L	103	1.2	SW846 8081A
4,4'-DDE	0.500	0.474	ug/L	95		SW846 8081A
	0.500	0.482	ug/L	96	1.7	SW846 8081A
4,4'-DDT	0.500	0.505	ug/L	101		SW846 8081A
	0.500	0.495	ug/L	99	2.0	SW846 8081A
Dieldrin	0.500	0.479	ug/L	96		SW846 8081A
	0.500	0.479	ug/L	96	0.0	SW846 8081A
Endosulfan I	0.500	0.389	ug/L	78		SW846 8081A
	0.500	0.388	ug/L	78	0.25	SW846 8081A
Endosulfan II	0.500	0.399	ug/L	80		SW846 8081A
	0.500	0.396	ug/L	79	0.75	SW846 8081A
Endosulfan sulfate	0.500	0.465	ug/L	93		SW846 8081A
	0.500	0.460	ug/L	92	1.1	SW846 8081A
Endrin	0.500	0.503	ug/L	101		SW846 8081A
	0.500	0.502	ug/L	100	0.19	SW846 8081A
Endrin aldehyde	0.500	0.507	ug/L	101		SW846 8081A
	0.500	0.499	ug/L	100	1.6	SW846 8081A
Heptachlor	0.500	0.523	ug/L	105		SW846 8081A
	0.500	0.501	ug/L	100	4.3	SW846 8081A
Heptachlor epoxide	0.500	0.472	ug/L	94		SW846 8081A
	0.500	0.473	ug/L	95	0.21	SW846 8081A
Methoxychlor	0.500	0.545	ug/L	109		SW846 8081A
	0.500	0.531	ug/L	106	2.6	SW846 8081A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	92	(66 - 127)
	94	(66 - 127)
Decachlorobiphenyl	82	(76 - 120)
	81	(76 - 120)

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: SL1265 **Work Order #...:** MR3TW1AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: F2D180000-122 MR3TW1AD-LCSD

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: B2KFF2

HPLC

Lot-Sample #...: F2D170439-001 **Work Order #...:** MR2R61AD **Matrix.....:** WATER
Date Sampled...: 04/13/12 **Date Received..:** 04/17/12
Prep Date.....: 04/18/12 **Analysis Date..:** 04/25/12
Prep Batch #...: 2109121
Dilution Factor: 1 **Method.....:** SW846 8310

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	5.0	ug/L	0.65
Acenaphthylene	**9.6 S**	**5.0**	**ug/L**	**0.44**
Anthracene	**0.068 J,B,S**	**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	**0.56 J,S**	**1.0**	**ug/L**	**0.083**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
p-Terphenyl	84	(60 - 98)

NOTE(S):

S Positive analyte detection appears questionable during spectral confirmation.

J Estimated result. Result is less than RL.

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

METHOD BLANK REPORT

HPLC

Client Lot #...: SL1265 **Work Order #...:** MR3TV1AA **Matrix.....:** WATER
MB Lot-Sample #: F2D180000-121

Prep Date.....: 04/18/12
Analysis Date..: 04/25/12 **Prep Batch #...:** 2109121
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	**0.040 J**	**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	90	(60 - 98)

NOTE(S):

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

J Estimated result. Result is less than RL.

LABORATORY CONTROL SAMPLE DATA REPORT

HPLC

Client Lot #...: SL1265 **Work Order #...:** MR3TV1AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: F2D180000-121 MR3TV1AD-LCSD
Prep Date.....: 04/18/12 **Analysis Date..:** 04/25/12
Prep Batch #...: 2109121
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Acenaphthene	20.0	16.0	ug/L	80		SW846 8310
	20.0	18.2	ug/L	91	13	SW846 8310
Acenaphthylene	40.0	32.0	ug/L	80		SW846 8310
	40.0	35.8	ug/L	89	11	SW846 8310
Anthracene	2.00	1.71	ug/L	86		SW846 8310
	2.00	1.92	ug/L	96	11	SW846 8310
Benzo(a)anthracene	2.00	1.78	ug/L	89		SW846 8310
	2.00	1.90	ug/L	95	6.7	SW846 8310
Benzo(b)fluoranthene	4.00	3.61	ug/L	90		SW846 8310
	4.00	3.82	ug/L	95	5.6	SW846 8310
Benzo(k)fluoranthene	2.00	1.82	ug/L	91		SW846 8310
	2.00	1.93	ug/L	97	6.1	SW846 8310
Benzo(ghi)perylene	4.00	3.61	ug/L	90		SW846 8310
	4.00	3.83	ug/L	96	5.8	SW846 8310
Benzo(a)pyrene	2.00	1.80	ug/L	90		SW846 8310
	2.00	1.92	ug/L	96	6.4	SW846 8310
Chrysene	2.00	1.78	ug/L	89		SW846 8310
	2.00	1.89	ug/L	94	6.1	SW846 8310
Dibenz(a,h)anthracene	4.00	3.57	ug/L	89		SW846 8310
	4.00	3.81	ug/L	95	6.6	SW846 8310
Fluoranthene	4.00	3.61	ug/L	90		SW846 8310
	4.00	3.94	ug/L	98	8.7	SW846 8310
Fluorene	4.00	3.29	ug/L	82		SW846 8310
	4.00	3.71	ug/L	93	12	SW846 8310
Indeno(1,2,3-cd)pyrene	2.00	1.82	ug/L	91		SW846 8310
	2.00	1.96	ug/L	98	7.5	SW846 8310
Naphthalene	20.0	15.8	ug/L	79		SW846 8310
	20.0	17.8	ug/L	89	12	SW846 8310
Phenanthrene	2.00	1.72	ug/L	86		SW846 8310
	2.00	1.92	ug/L	96	11	SW846 8310
Pyrene	2.00	1.78	ug/L	89		SW846 8310
	2.00	1.94	ug/L	97	8.6	SW846 8310

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
p-Terphenyl	85	(56 - 108)
	86	(56 - 108)

NOTE(S):

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

Bold print denotes control parameters

WET CHEMISTRY

CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2KFW5

General Chemistry

Lot-Sample #...: F2D120462-001 **Work Order #...:** MR0FX **Matrix.....:** WATER
Date Sampled...: 04/10/12 **Date Received..:** 04/12/12

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Sulfide	ND	1.0	mg/L	SW846 9030	04/17/12	2108057

Dilution Factor: 1 MDL.....: 0.083

CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2KFW6

General Chemistry

Lot-Sample #...: F2D120462-002 **Work Order #...:** MR0F1 **Matrix.....:** WATER
Date Sampled...: 04/10/12 **Date Received..:** 04/12/12

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Sulfide	ND	1.0	mg/L	SW846 9030	04/17/12	2108057

Dilution Factor: 1 MDL.....: 0.083

CH2M Hill Plateau Remediation DOE RL

Client Sample ID: B2KFX5

General Chemistry

Lot-Sample #...: F2D130430-001 **Work Order #...:** MR07H **Matrix.....:** WATER
Date Sampled...: 04/11/12 **Date Received..:** 04/13/12

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Sulfide	ND	1.0	mg/L	SW846 9030	04/17/12	2108057

Dilution Factor: 1 MDL.....: 0.083

METHOD BLANK REPORT

General Chemistry

Client Lot #...: SL1265 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Sulfide		Work Order #: MR2FW1AA		MB Lot-Sample #:	F2D170000-057	
	ND	1.0	mg/L	SW846 9030	04/17/12	2108057
		Dilution Factor: 1				

NOTE(S):

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

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Client Lot #...: SL1265 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Sulfide			Work Order #: MR2FW1AC		LCS Lot-Sample#: F2D170000-057		
	10.0	9.40	mg/L	94	SW846 9030	04/17/12	2108057
			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 #...: SL1265 **Matrix.....:** WATER
Date Sampled...: 04/10/12 **Date Received..:** 04/12/12

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Sulfide			Work Order #...: MR0FX1AG			MS Lot-Sample #: F2D120462-001		
	ND	10.0	9.20	mg/L	92	SW846 9030	04/17/12	2108057
			Dilution Factor: 1					

NOTE(S):

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

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: F2D120462 **Work Order #...:** MR0FX-SMP **Matrix.....:** WATER
MR0FX-DUP
Date Sampled...: 04/10/12 **Date Received..:** 04/12/12

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total	Sulfide					SD Lot-Sample #: F2D120462-001		
	ND	ND	mg/L	0	(0-20)	SW846 9030	04/17/12	2108057

Dilution Factor: 1