TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica St. Louis
13715 Rider Trail North
Earth City, MO 63045
Tel: (314)298-8566

TestAmerica Job ID: 160-10061-1
TestAmerica Sample Delivery Group: SL1748
Client Project/Site: S,W,I,A ,X SAFS- GROUNDWATER
Revision: 1

For:
CH2M Hill Plateau Remediation Company
PO BOX 1600, MS H8-41
Richland, Washington 99352

Attn: General Mailbox

Authorized for release by:
3/11/2015 10:55:41 AM

Jayna Awalt, Project Manager II
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LINKS

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Job ID: 160-10061-1

Laboratory: TestAmerica St. Louis

Narrative

CASE NARRATIVE

Rev 1. - Narrative comment was added to Semivolatiles to reference the Terphenyl-d4 excrusion in sample B2YVV8 per P&D SL1748.

CH2MHill Plateau Remediation Company
P.O. Box 1600
Richland, Washington 99352
February 20, 2015
Attention: Scot Fitzgerald

SDG	: SL1748
Number of Samples	: 34 samples
Sample Matrix	: Water
Data Deliverable	: Summary
Date SDG Closed	: January 10, 2014

II. Introduction

On January 9 and 10, 34 samples were received by TestAmerica - St. Louis for chemical analysis. The samples were received within temperature criteria. See the COC and receipt checklists for documentation of any variations on receipt conditions and temperature. Upon receipt, 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: X15-004, W15-001, S15-001

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 an LCS/LCS duplicate.

Note: For Metals analyses, per standard practice, all 6020 water and soil samples are initially prepared at 2x dilution. This standard dilution does not affect reporting limits as MDL studies are also prepared in the same manner. These dilutions do not necessitate flagging unless otherwise noted in the case narrative.

For Anion analysis, samples have been started at a 2x dilution per CHPRC direction. The samples are flagged accordingly with a “D” flag if sample concentration is above the MDL/RL. Non-conformance will be included in the below section only if dilution is greater than 2x.

For WTPH methods, the lab utilizes method 8015B. Per CHPRC direction, the method name in the electronic data has been modified to read WTPH in the place of 8015B.

IV. Definitions

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

Job ID: 160-10061-1 (Continued)

Laboratory: TestAmerica St. Louis (Continued)

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.

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. For Metals analyses, per standard practice, all solid samples are initially prepared at a 2x dilution. This standard dilution does not affect reporting limits as MDL studies are also prepared in the same manner. These dilutions do not necessitate qualification unless otherwise noted in the case narrative. Due to limitations of the LIMS system, "D" flags may appear on QC samples.
- **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.
- **O**- For all analyses, the LCS (LCSD) recoveries are outside QC limits.
- **M**- For inorganic analyses, the precision was outside control limits.
- **P** - For organic analyses (PCB/Pests only), the aroclor target analyte has greater than 25% difference for detected concentrations between the two GC columns.

Semivolatiles

Batch: 167832

The laboratory control sample (LCS) for batch 167832 recovered outside control limits for 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dichlorophenol and 2-Nitrophenol. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported. (LCS 160-167826/2-A) These analytes have been qualified accordingly with an "O" flag in the associated samples.

Six surrogates are used for this analysis. The laboratory allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following samples contained an allowable number of surrogate compounds (terphenyl-d14) outside limits: B2YVV8 (160-10061-4). These results have been reported and qualified.

Batch: 170594

Tributyl phosphate was detected in method blank MB 160-168914/1-A at a level exceeding the method detection limit but below the reporting limit. This result is an estimate and has been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been flagged "B".

The laboratory control sample (LCS) for batch 170594 recovered outside control limits for 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol and 2,4-Dichlorophenol. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported. (LCS 160-168914/2-A) These analytes have been qualified accordingly with an "O" flag in the associated samples.

ICPMS Metals

Batch: 171315

Job ID: 160-10061-1 (Continued)

Laboratory: TestAmerica St. Louis (Continued)

Strontium was detected in method blank MB 160-169190/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged "B". If the associated sample reported a result above the MDL and/or RL and is not greater than 5x the method blank, the result has been flagged "C".

Due to LDR failures, the linear range for beryllium has been lowered to the concentration of the highest calibration standard (200ppb). The LCS and MS/MSD were above the LDR, but were within acceptable limits. (160-10093-13 MS), (160-10093-13 MSD), (LCS 160-169190/2-A)

The LLC was outside the upper QC limits for selenium. Reported samples which are below the reporting limit for the contaminant do not require re-analysis. Original results are reported. (CRI 160-171315/25)

The continuing calibration verification (CCV) associated with batch 169190 recovered above the upper control limit for selenium. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data has been reported. (CCV 160-171315/28).

Alkalinity

Batch: 168349

Alkalinity and Bicarbonate Alkalinity were detected in method blank MB 160-168349/1 at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged "B". If the associated sample reported a result above the MDL and/or RL and is not greater than 5x the method blank, the result has been flagged "C".

TOX

Batch: 169140

The following samples in TOX batch 169140 exhibited bottom column results greater than 10% of the combined results of the top and bottom columns: B2YVW6 (160-10061-7). However, the data is not believed to be adversely affected, as the samples did not contain any residual chlorine and the carbon columns were not overloaded. Thus, this excursion is attributed to column channeling and results may be reported, per method 9020B.

Batch: 172576

The following samples in TOX batch 172576 are bracketed by an ending CCV which recovered below the lower acceptance limit of 90% (88%): B2YVY3 (160-10078-23), B2YWT0 (160-10078-20). These samples were re-analyzed on 2/5/15 and confirmed the non-detect (ND) results from this original analysis. Thus, results are reported in this batch with a low ending CCV recovery, to avoid reporting re-analysis results from sample containers that contain headspace.

TOC

Batch: 173727

For TOC Batch 173727, the following samples were analyzed out of 28 day hold, due to lab error, but were analyzed within 2X hold. Per SDR15-216, sample data for analysis performed outside 1x hold but within 2x hold has been reported: B2YVY3 (160-10078-23), B2YVY4 (160-10078-24), B2YW03 (160-10078-25), B2YW07 (160-10078-19), B2YW10 (160-10078-3), B2YW13 (160-10078-8), B2YW33 (160-10078-16), B2YWR8 (160-10078-18), B2YWR9 (160-10078-17), B2YWT0 (160-10078-20), B2YWT1 (160-10078-2), B2YWT2 (160-10078-4), B2YWT3 (160-10078-1), B2YWT4 (160-10078-6), B2YWT5 (160-10078-7), B2YWT6 (160-10078-5), B2YWV0 (160-10078-15), B2YWV1 (160-10078-14), B2YWV2 (160-10078-13).

There were no observations or non-conformances associated with the following methods:

Job ID: 160-10061-1 (Continued)

Laboratory: TestAmerica St. Louis (Continued)

Volatiles
ICP Metals

We certify that this data package is in compliance with the SOW, both technically and for completeness, including a full description of, explanation of, and corrective actions for, any and all deviations, from either the analyses requested or the case narrative requested. Release of the data contained in this hard copy data package has been authorized by the Laboratory Analytical Manager or designee and the laboratory's client services representative as verified by their signature on this report.

Reviewed and approved:

Jayna Awalt
St. Louis Project Manager

Problem and Discrepancy Report

TASL

SDG SL1748

3/09/15

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

   On page 36 for sample B2YVV8, the SVOA surrogate terphenyl-d14 is outside acceptance limits and not mentioned in the narrative.

   Resolution: *Provide appropriate correction.*

Lab Response: Narrative comment was added to address Terphenyl-d14 surrogate excursion.

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

Provide a resolution to each issue noted on the report

SAMPLE ISSUE RESOLUTION

SIR NUM	SDR15-216
REV NUM	0
DATE INITIATED	2/11/2015

SAMPLE EVENT INFORMATION

SAF NUM(S)	W15-001, X15-004
OPERABLE UNIT(S)	NONE
PROJECT(S)	SURV15, RCRA15
SAMPLE EVENT TITLE(S)	SURV15, RCRA15
LABORATORY	TestAmerica St. Louis

SAMPLING INFORMATION

NUMBER OF SAMPLES	19
SAMPLE NUMBERS	B2Y4B0, B2Y4C7, B2YVV8, B2YVW6, B2YVW7, B2YVY3, B2YVY4, B2YW03, B2YW07, B2YW33, B2YWP9, B2YWR0, B2YWR1, B2YWR8, B2YWR9, B2YWT0, B2YWV0, B2YWV1, B2YWV2
SAMPLE MATRIX	WATER
COLLECTION DATE	1/7/2015 - 1/9/2015
SDG NUM	SL1748

ISSUE BACKGROUND

CLASS	Laboratory Issue
TYPE	Analysis Holding Time Exceeded
DESCRIPTION	SAMPLES WERE RUN OUTSIDE 1X HOLD FOR TOC ANALYSIS DUE TO ANALYST ERROR. SAMPLES WERE RUN WITHIN 2X HOLD.

DISPOSITION

DESCRIPTION	TASL PROPOSES TO REPORT DATA FOR ANALYSIS PERFORMED OUTSIDE 1X HOLD BUT WITHIN 2X HOLD AND NARRATE IN REPORT. OR CANCEL ANALYSIS.
JUSTIFICATION	Accepted Disposition: Report data performed out of 1X hol and narratie in report. SUBMITTED BY: Jayna Awalt DATE: 02/11/2015 ACCEPTED BY: Scot Fitzgerald DATE: 02/11/2015

Login Sample Receipt Checklist

Client: CH2M Hill Plateau Remediation Company

Job Number: 160-10061-1
SDG Number: SL1748

Login Number: 10061
List Number: 1
Creator: Clarke, Jill C

List Source: TestAmerica St. Louis

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

CH2MHill Plateau Remediation Company 847748

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **X15-004-056**

Collector	CHRIS FULTON CHPRC	**Contact/Requester**	WATERS-HUSTED, K	**Telephone No.**	376-4650
SAF No.	X15-004	**Sampling Origin**	HANFORD SITE	**Purchase Order/Charge Code**	300071ES20
Project Title	GW Sitewide Surv, FY15	**Logbook No.**	HNF-N-506 74/20	**Ice Chest No.**	GWS-407
Shipped To (Lab)	TestAmerica St. Louis	**Method of Shipment**	Commercial Carrier	**Bill of Lading/Air Bill No.**	7725 1240 0783
Protocol	SURV	**Priority:**	**30 Days** **PRIORITY**	**Offsite Property No.**	N/A

POSSIBLE SAMPLE HAZARDS/REMARKS

*Contains Radioactive Material at concentrations that are not be regulated for transportation per 49 CFR/IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1.

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

Batch with A, I, S, and W SAFs.

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B2Y4B0	N	W	JAN 08 2015	1054	4x40-mL aGs*	8260_VOA_GCMS: COMMON ✓	14 Days	HCl or H2SO4 to pH <2/Cool <=6C

Relinquished By: CHRIS FULTON CHPRC (Print) (Sign)	Date/Time: JAN 08 2015 1115	Received By: K.C. Patterson CHPRC (Print) (Sign)	Date/Time: JAN 08 2015 1115
Relinquished By: K.C. Patterson CHPRC	Date/Time: JAN 08 2015 1430	Received By: FedEx	Date/Time:
Relinquished By: FED EX	Date/Time:	Received By: Jill Clark Jill Clark 1-9-15	Date/Time: 0920
Relinquished By:	Date/Time:	Received By:	Date/Time:

Matrix *

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

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

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A-6004-842 (REV 2)

CH2MHill Plateau Remediation Company 821748

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **X15-004-092**

Collector	J.R. Aguilar/CHPRC	**Contact/Requester**	WATERS-HUSTED, K	**Telephone No.**	376-4650
SAF No.	X15-004	**Sampling Origin**	HANFORD SITE	**Purchase Order/Charge Code**	303064ES20
Project Title	GW Sitewide Surv, FY15	**Logbook No.**	HNF-N-506 73/57	**Ice Chest No.**	GWS-407
Shipped To (Lab)	TestAmerica St. Louis	**Method of Shipment**	Commercial Carrier	**Bill of Lading/Air Bill No.**	
Protocol	SURV	**Priority:**	30 Days **PRIORITY**	**Offsite Property No.**	N/A

POSSIBLE SAMPLE HAZARDS/REMARKS

*Contains Radioactive Material at concentrations that are not be regulated for transportation per 49 CFR/IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1.

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

Batch with A, I, S, and W SAFs.

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B2Y4C7	N	W	1-7-15	0927	4x40-mL aGs*	8260_VOA_GCMS: COMMON	14 Days	HCl or H2SO4 to pH <2/Cool <=6C

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
J.R. Aguilar/CHPRC			JAN 07 2015 1345	SSU #1			JAN 07 2015 1345
SSU #1			JAN 08 2015 0830	DW Brotherton		DW Brotherton	JAN 08 2015 0830
DW Brotherton		DW Brotherton	JAN 08 2015/1400	FED EX			DWB 1-8-15 ~~JAN 08 2015~~
FED EX				Jill Clark		Jill Clark	1-9-15 0920

Matrix *

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

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

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CH2MHill Plateau Remediation Company 514748

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **W15-001-149**

Collector	CHRIS FULTON CHPRC	**Contact/Requester**	Karen Waters-Husted	**Telephone No.**	509-376-4650
SAF No.	W15-001	**Sampling Origin**	Hanford Site	**Purchase Order/Charge Code**	300071
Project Title	RCRA, JANUARY 2015	**Logbook No.**	HNF-N-506 74/20	**Ice Chest No.**	GW5-407
Shipped To (Lab)	TestAmerica St. Louis	**Method of Shipment**	Commercial Carrier	**Bill of Lading/Air Bill No.**	7725 1240 0783
Protocol	RCRA	**Priority:**	**30 Days** **PRIORITY**	**Offsite Property No.**	N/A

POSSIBLE SAMPLE HAZARDS/REMARKS

** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1

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

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B2YWP9	N	W	JAN 08 2015	1054	1x1-L aGs*	9020_TOX: COMMON ✓	28 Days	H2SO4 to pH <2/Cool <=6C
B2YWP9	N	W			1x250-mL aG	9060_TOC: COMMON ✓	28 Days	HCl or H2SO4 to pH <2/Cool <=6C
B2YVV8	N	W			1x500-mL G/P	310.1_ALKALINITY: GW 01 ✓	14 Days	Cool <=6C
B2YVV8	N	W			4x40-mL aGs*	8260_VOA_GCMS: COMMON ✓	14 Days	HCl or H2SO4 to pH <2/Cool <=6C
B2YVV8	N	W			3x1-L aG	8270_PHENOLIC_GC: COMMON ✓	7/40 Days	Cool <=6C
B2YVV8	N	W			1x1-L aGs*	9020_TOX: COMMON ✓	28 Days	H2SO4 to pH <2/Cool <=6C
B2YVV8	N	W			1x250-mL aG	9060_TOC: COMMON ✓	28 Days	HCl or H2SO4 to pH <2/Cool <=6C
B2YWR1	N	W			1x1-L aGs*	9020_TOX: COMMON ✓	28 Days	H2SO4 to pH <2/Cool <=6C
B2YWR1	N	W			1x250-mL aG	9060_TOC: COMMON ✓	28 Days	HCl or H2SO4 to pH <2/Cool <=6C
B2YWR0	N	W			1x1-L aGs*	9020_TOX: COMMON ✓	28 Days	H2SO4 to pH <2/Cool <=6C
B2YWR0	N	W			1x250-mL aG	9060_TOC: COMMON ✓	28 Days	HCl or H2SO4 to pH <2/Cool <=6C

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
CHRIS FULTON CHPRC			JAN 08 2015 1115	K.C. Patterson CHPRC			JAN 08 2015 1115
K.C. Patterson CHPRC			JAN 08 2015/420	FEDEX			
FED EX				Jill Clark	Jill Clark		1-9-15 0920

Matrix *

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

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

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CH2MHill Plateau Remediation Company SL1748

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **W15-001-150**

Collector	CHRIS FULTON CHPRC	**Contact/Requester**	Karen Waters-Husted	**Telephone No.**	509-376-4650
SAF No.	W15-001	**Sampling Origin**	Hanford Site	**Purchase Order/Charge Code**	300071
Project Title	RCRA, JANUARY 2015	**Logbook No.**	HNF-N-506 74 / 19	**Ice Chest No.**	GWS - 407
Shipped To (Lab)	TestAmerica St. Louis	**Method of Shipment**	Commercial Carrier	**Bill of Lading/Air Bill No.**	7725 1240 0783
Protocol	RCRA	**Priority:**	**30 Days** **PRIORITY**	**Offsite Property No.**	N/A

POSSIBLE SAMPLE HAZARDS/REMARKS

** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1

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

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B2YVW6	N	W	JAN 07 2015	1325	1x500-mL G/P	310.1_ALKALINITY: GW 01 ✓	14 Days	Cool <=6C
B2YVW6	N	W	↓	↓	1x500-mL G/P	6010_METALS_ICP: COMMON; 6010_METALS_ICP: GW 03 ✓	6 Months	HNO3 to pH <2
B2YVW6	N	W	↓	↓	1x1-L aGs*	9020_TOX: COMMON ✓	28 Days	H2SO4 to pH <2/Cool <=6C
B2YVW6	N	W	↓	↓	1x250-mL aG	9060_TOC: COMMON ✓	28 Days	HCl or H2SO4 to pH <2/Cool <=6C
B2YVW7	Y	W	↓	↓	1x500-mL G/P	6010_METALS_ICP: COMMON; 6010_METALS_ICP: GW 03 ✓	6 Months	HNO3 to pH <2

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
CHRIS FULTON CHPRC			JAN 07 2015 1445	SSU-1			JAN 07 2015 1445
SSU-1			JAN 08 2015 0830	D.W. Brotherton/CHPRC			JAN 08 2015 0830
D.W. Brotherton/CHPRC			JAN 08 2015 1400	FEDEX			
FED EX				Jill Clark			Jill Clark 1.9.15 0920

Matrix *

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

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

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A-6004-842 (REV 2)

IMPORTANT!
FedEx is closely monitoring the winter storm in the northeastern U.S. Learn More

FedEx® Tracking

772512400783

Ship (P/U) date :
Thur 1/08/2015 3:29 pm

RICHLAND, WA US

Actual delivery :
Fri 1/09/2015 9:16 am

EARTH CITY, MO US

Delivered

Signed for by: B.DANIELS

Travel History

Date/Time	Activity	Location
- 1/09/2015 - Friday		
9:16 am	Delivered	EARTH CITY, MO
7:45 am	On FedEx vehicle for delivery	EARTH CITY, MO
7:39 am	At local FedEx facility	EARTH CITY, MO
5:35 am	At destination sort facility	BERKELEY, MO
4:47 am	Departed FedEx location	MEMPHIS, TN
12:34 am	Arrived at FedEx location	MEMPHIS, TN
- 1/08/2015 - Thursday		
4:59 pm	Left FedEx origin facility	PASCO, WA
3:29 pm	Picked up	PASCO, WA
1:52 pm	Shipment information sent to FedEx	

Shipment Facts

Tracking number	772512400783	**Service**	FedEx Priority Overnight
Weight	80 lbs / 36.29 kgs	**Delivered To**	Shipping/Receiving
Total pieces	1	**Total shipment weight**	80 lbs / 36.29 kgs
Shipper reference	gws-407	**Packaging**	Your Packaging
Special handling section	Deliver Weekday		

Login Sample Receipt Checklist

Client: CH2M Hill Plateau Remediation Company

Job Number: 160-10078-1
SDG Number: SL1748

Login Number: 10078
List Number: 1
Creator: Daniels, Brian J

List Source: TestAmerica St. Louis

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.5, 1.4, 0.7, 1.2
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

73 lbs

CH2MHill Plateau Remediation Company 847748

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **W15-001-156**

Collector	CHRIS FULTON CHPRC	**Contact/Requester**	Karen Waters-Husted	**Telephone No.**	509-376-4650
SAF No.	W15-001	**Sampling Origin**	Hanford Site	**Purchase Order/Charge Code**	300071
Project Title	RCRA, JANUARY 2015	**Logbook No.**	HNF-N-506 74/22	**Ice Chest No.**	GWS-360
Shipped To (Lab)	TestAmerica St. Louis	**Method of Shipment**	Commercial Carrier	**Bill of Lading/Air Bill No.**	7725 3027 9736
Protocol	RCRA	**Priority:**	30 Days **PRIORITY**	**Offsite Property No.**	N/A

POSSIBLE SAMPLE HAZARDS/REMARKS

** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1

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

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B2YWT3	N	W	JAN 09 2015	1155	1x1-L aGs*	9020_TOX: COMMON ✓	28 Days	H2SO4 to pH <2/Cool <=6C
B2YWT3	N	W	↓	↓	1x250-mL aG	9060_TOC: COMMON ✓	28 Days	HCl or H2SO4 to pH <2/Cool <=6C
B2YWT1	N	W	↓	↓	1x1-L aGs*	9020_TOX: COMMON ✓	28 Days	H2SO4 to pH <2/Cool <=6C
B2YWT1	N	W	↓	↓	1x250-mL aG	9060_TOC: COMMON ✓	28 Days	HCl or H2SO4 to pH <2/Cool <=6C
B2YW10	N	W	↓	↓	1x500-mL G/P	310.1_ALKALINITY: GW 01 ✓	14 Days	Cool <=6C
B2YW10	N	W	↓	↓	3x1-L aG	8270_SVOA_GCMS: GW 01 ✓	7/40 Days	Cool <=6C
B2YW10	N	W	↓	↓	1x1-L aGs*	9020_TOX: COMMON ✓	28 Days	H2SO4 to pH <2/Cool <=6C
B2YW10	N	W	↓	↓	1x250-mL aG	9060_TOC: COMMON ✓	28 Days	HCl or H2SO4 to pH <2/Cool <=6C
B2YWT2	N	W	↓	↓	1x1-L aGs*	9020_TOX: COMMON ✓	28 Days	H2SO4 to pH <2/Cool <=6C
B2YWT2	N	W	↓	↓	1x250-mL aG	9060_TOC: COMMON ✓	28 Days	HCl or H2SO4 to pH <2/Cool <=6C

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
CHRIS FULTON CHPRC			JAN 09 2015 1205		FedEx		JAN 09 2015 1205
FED EX				Brian Daniels			1/10/15 0900

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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85 lbs

CH2MHill Plateau Remediation Company 511748

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **W15-001-157**

Collector	CHRIS FULTON CHPRC	**Contact/Requester**	Karen Waters-Husted	**Telephone No.**	509-376-4650
SAF No.	W15-001	**Sampling Origin**	Hanford Site	**Purchase Order/Charge Code**	300071
Project Title	RCRA, JANUARY 2015	**Logbook No.**	HNF-N-506 74 / 22	**Ice Chest No.**	GW5-364
Shipped To (Lab)	TestAmerica St. Louis	**Method of Shipment**	Commercial Carrier	**Bill of Lading/Air Bill No.**	7725 3099 7690
Protocol	RCRA	**Priority:**	**30 Days** **PRIORITY**	**Offsite Property No.**	N/A

POSSIBLE SAMPLE HAZARDS/REMARKS

** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1

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

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B2YWT6	N	W	JAN 09 2015	1016	1x1-L aGs*	9020_TOX: COMMON ✓	28 Days	H2SO4 to pH <2/Cool <=6C
B2YWT6	N	W	↓	↓	1x250-mL aG	9060_TOC: COMMON ✓	28 Days	HCl or H2SO4 to pH <2/Cool <=6C
B2YWT4	N	W			1x1-L aGs*	9020_TOX: COMMON ✓	28 Days	H2SO4 to pH <2/Cool <=6C
B2YWT4	N	W			1x250-mL aG	9060_TOC: COMMON ✓	28 Days	HCl or H2SO4 to pH <2/Cool <=6C
B2YWT5	N	W			1x1-L aGs*	9020_TOX: COMMON ✓	28 Days	H2SO4 to pH <2/Cool <=6C
B2YWT5	N	W			1x250-mL aG	9060_TOC: COMMON ✓	28 Days	HCl or H2SO4 to pH <2/Cool <=6C
B2YW13	N	W			1x500-mL G/P	310.1_ALKALINITY: GW 01 ✓	14 Days	Cool <=6C
B2YW13	N	W			3x1-L aG	8270_SVOA_GCMS: GW 01 ✓	7/40 Days	Cool <=6C
B2YW13	N	W			1x1-L aGs*	9020_TOX: COMMON ✓	28 Days	H2SO4 to pH <2/Cool <=6C
B2YW13	N	W	↓	↓	1x250-mL aG	9060_TOC: COMMON ✓	28 Days	HCl or H2SO4 to pH <2/Cool <=6C

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
CHRIS FULTON CHPRC			JAN 09 2015 1130	F.M. Hall CHPRC			JAN 09 2015 1130
F.M. Hall CHPRC			JAN 09 2015 1400	FEDEX			
FED EX				Brian Daniels			1/10/15 0900

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 SL1748

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **W15-001-187**

Collector	S.W. King/CHPRC	**Contact/Requester**	Karen Waters-Husted	**Telephone No.**	509-376-4650
SAF No.	W15-001	**Sampling Origin**	Hanford Site	**Purchase Order/Charge Code**	300071
Project Title	RCRA, JANUARY 2015	**Logbook No.**	HNF-N-506 71 / 40	**Ice Chest No.**	GWS-364
Shipped To (Lab)	TestAmerica St. Louis	**Method of Shipment**	Commercial Carrier	**Bill of Lading/Air Bill No.**	7725 3039 7690
Protocol	RCRA	**Priority:**	**30 Days** **PRIORITY**	**Offsite Property No.**	N/A

POSSIBLE SAMPLE HAZARDS/REMARKS

** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1

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

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B2YWF9	Y	W	JAN 09 2015	1025	1x500-mL G/P	6010_METALS_ICP: COMMON ✓	6 Months	HNO3 to pH <2
B2YWF7	N	W	✓	✓	1x500-mL G/P	310.1_ALKALINITY: COMMON ✓	14 Days	Cool <=6C
B2YWF7	N	W	JAN 09 2015	1025	1x500-mL G/P	6010_METALS_ICP: COMMON ✓	6 Months	HNO3 to pH <2

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
S.W. King/CHPRC			1045	RA Shepard			1045 JAN 09 2015
RA Shepard			JAN 09 2015 1/9/15 1400	FEDEX			
FED EX				Brian Daniels			1/10/15 0900

Matrix *

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

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

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A-6004-842 (REV 2)

CH2MHill Plateau Remediation Company SL1748

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **S15-001-317**

Page 1 of 1

Collector	CHRIS FULTON CHPRC	**Contact/Requester**	Karen Waters-Husted	**Telephone No.**	509-376-4650
SAF No.	S15-001	**Sampling Origin**	Hanford Site	**Purchase Order/Charge Code**	300071
Project Title	SURV, JANUARY 2015	**Logbook No.**	HNF-N-506 74/22	**Ice Chest No.**	GWS-364
Shipped To (Lab)	TestAmerica St. Louis	**Method of Shipment**	Commercial Carrier	**Bill of Lading/Air Bill No.**	7725 3039 7690
Protocol	SURV	**Priority:**	**30 Days** **PRIORITY**	**Offsite Property No.**	N/A

POSSIBLE SAMPLE HAZARDS/REMARKS

** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1

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

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B300R0	Y	W	JAN 09 2015	1016	1x500-mL G/P	6010_METALS_ICP: GW 04; ✓ 6020_METALS_ICPMS: GW 01 ✓	6 Months	HNO3 to pH <2
B300P9	N	W	↓	↓	1x500-mL G/P	6010_METALS_ICP: GW 04; ✓ 6020_METALS_ICPMS: GW 01 ✓	6 Months	HNO3 to pH <2

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
CHRIS FULTON CHPRC			JAN 09 2015 1130	F.M. Hall CHPRC			JAN 09 2015 1130
F.M. Hall CHPRC			JAN 09 2015 1400	FEDEX			
FED EX				Brian Daniels			1/10/15 0900

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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72 lbs.

CH2MHill Plateau Remediation Company 91748

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **W15-001-160**

Collector	CHRIS FULTON CHPRC	**Contact/Requester**	Karen Waters-Husted	**Telephone No.**	509-376-4650
SAF No.	W15-001	**Sampling Origin**	Hanford Site	**Purchase Order/Charge Code**	300071
Project Title	RCRA, JANUARY 2015	**Logbook No.**	HNF-N-506 74/22	**Ice Chest No.**	GWS-304
Shipped To (Lab)	TestAmerica St. Louis	**Method of Shipment**	Commercial Carrier	**Bill of Lading/Air Bill No.**	7725 2608 2344
Protocol	RCRA	**Priority:**	30 Days **PRIORITY**	**Offsite Property No.**	N/A

POSSIBLE SAMPLE HAZARDS/REMARKS

** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1

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

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B2YWV2	N	W	JAN 09 2015	0815	1x1-L aGs*	9020_TOX: COMMON ✓	28 Days	H2SO4 to pH <2/Cool <=6C
B2YWV2	N	W	↓	↓	1x250-mL aG	9060_TOC: COMMON ✓	28 Days	HCl or H2SO4 to pH <2/Cool <=6C
B2YWV1	N	W	↓	↓	1x1-L aGs*	9020_TOX: COMMON ✓	28 Days	H2SO4 to pH <2/Cool <=6C
B2YWV1	N	W	↓	↓	1x250-mL aG	9060_TOC: COMMON ✓	28 Days	HCl or H2SO4 to pH <2/Cool <=6C
B2YWV0	N	W	↓	↓	1x1-L aGs*	9020_TOX: COMMON ✓	28 Days	H2SO4 to pH <2/Cool <=6C
B2YWV0	N	W	↓	↓	1x250-mL aG	9060_TOC: COMMON ✓	28 Days	HCl or H2SO4 to pH <2/Cool <=6C
B2YW33	N	W	↓	↓	1x500-mL G/P	310.1_ALKALINITY: GW 01 ✓	14 Days	Cool <=6C
B2YW33	N	W	↓	↓	3x1-L aG	8270_PHENOLIC_GC: COMMON ✓	7/40 Days	Cool <=6C
B2YW33	N	W	↓	↓	1x1-L aGs*	9020_TOX: COMMON ✓	28 Days	H2SO4 to pH <2/Cool <=6C
B2YW33	N	W	↓	↓	1x250-mL aG	9060_TOC: COMMON ✓	28 Days	HCl or H2SO4 to pH <2/Cool <=6C

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
CHRIS FULTON CHPRC			JAN 09 2015 0937	F.M. Hall CHPRC			JAN 09 2015 0937
F.M. Hall CHPRC			JAN 09 2015 1400	FEDEX			
FED EX				Brian Daniels			1/10/15 0900

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 O 12/8/2014 A-6004-842 (REV 2)

89 lbs

CH2MHill Plateau Remediation Company 94748

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **W15-001-155**

Page 1 of 1

Collector	CHRIS FULTON CHPRC	**Contact/Requester**	Karen Waters-Husted	**Telephone No.**	509-376-4650
SAF No.	W15-001	**Sampling Origin**	Hanford Site	**Purchase Order/Charge Code**	300071
Project Title	RCRA, JANUARY 2015	**Logbook No.**	HNF-N-506 74 / 22	**Ice Chest No.**	GWS-366
Shipped To (Lab)	TestAmerica St. Louis	**Method of Shipment**	Commercial Carrier	**Bill of Lading/Air Bill No.**	7725 2613 9781
Protocol	RCRA	**Priority:**	**30 Days** **PRIORITY**	**Offsite Property No.**	N/A

POSSIBLE SAMPLE HAZARDS/REMARKS

** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1

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

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B2YWR9	N	W	JAN 09 2015	0918	1x1-L aGs*	9020_TOX: COMMON ✓	28 Days	H2SO4 to pH <2/Cool <=6C
B2YWR9	N	W	↓	↓	1x250-mL aG	9060_TOC: COMMON ✓	28 Days	HCl or H2SO4 to pH <2/Cool <=6C
B2YWR8	N	W	↓	↓	1x1-L aGs*	9020_TOX: COMMON ✓	28 Days	H2SO4 to pH <2/Cool <=6C
B2YWR8	N	W	↓	↓	1x250-mL aG	9060_TOC: COMMON ✓	28 Days	HCl or H2SO4 to pH <2/Cool <=6C
B2YW07	N	W	↓	↓	1x500-mL G/P	310.1_ALKALINITY: GW 01 ✓	14 Days	Cool <=6C
B2YW07	N	W	↓	↓	3x1-L aG	8270_SVOA_GCMS: GW 01 ✓	7/40 Days	Cool <=6C
B2YW07	N	W	↓	↓	1x1-L aGs*	9020_TOX: COMMON ✓	28 Days	H2SO4 to pH <2/Cool <=6C
B2YW07	N	W	↓	↓	1x250-mL aG	9060_TOC: COMMON ✓	28 Days	HCl or H2SO4 to pH <2/Cool <=6C
B2YWT0	N	W	↓	↓	1x1-L aGs*	9020_TOX: COMMON ✓	28 Days	H2SO4 to pH <2/Cool <=6C
B2YWT0	N	W	↓	↓	1x250-mL aG	9060_TOC: COMMON ✓	28 Days	HCl or H2SO4 to pH <2/Cool <=6C

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
CHRIS FULTON CHPRC			JAN 09 2015 0937	F.M. Hall CHPRC			JAN 09 2015 0937
F.M. Hall CHPRC			JAN 09 2015 1400	FEDEX			
FED EX				Brian Daniels			1/10/15 0900

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 SL1748

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **S15-001-315**

Page 1 of 1

Collector	CHRIS FULTON CHPRC	**Contact/Requester**	Karen Waters-Husted	**Telephone No.**	509-376-4650
SAF No.	S15-001	**Sampling Origin**	Hanford Site	**Purchase Order/Charge Code**	300071
Project Title	SURV, JANUARY 2015	**Logbook No.**	HNF-N-506 74 / 22	**Ice Chest No.**	GWS-366
Shipped To (Lab)	TestAmerica St. Louis	**Method of Shipment**	Commercial Carrier	**Bill of Lading/Air Bill No.**	7725 2613 8781
Protocol	SURV	**Priority:**	**30 Days** **PRIORITY**	**Offsite Property No.**	N/A

POSSIBLE SAMPLE HAZARDS/REMARKS

** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1

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

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B300P1	N	W	JAN 0 9 2015	0918	1x500-mL G/P	6010_METALS_ICP: GW 04; ✓ 6020_METALS_ICPMS: GW 01 ✓	6 Months	HNO3 to pH <2
B300P2	Y	W	↓	↓	1x500-mL G/P	6010_METALS_ICP: GW 04; 6020_METALS_ICPMS: GW 01 ✓	6 Months	HNO3 to pH <2

Relinquished By CHRIS FULTON CHPRC	Print / Sign	Date/Time JAN 0 9 2015 0937	Received By F.M. Hall CHPRC Print / Sign JAN 0 9 2015 0937
Relinquished By F.M. Hall CHPRC	Sign	Date/Time 1400 JAN 0 9 2015	Received By FEDEX Date/Time
Relinquished By FED EX		Date/Time	Received By Brian Daniels Date/Time 1/10/15 0900
Relinquished By		Date/Time	Received By Date/Time

Matrix *

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

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

PRINTED O 12/9/2014

A-6004-842 (REV 2)

CH2MHill Plateau Remediation Company 91748

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **W15-001-152**

Collector	CHRIS FULTON CHPRC	**Contact/Requester**	Karen Waters-Husted	**Telephone No.**	509-376-4650
SAF No.	W15-001	**Sampling Origin**	Hanford Site	**Purchase Order/Charge Code**	300071
Project Title	RCRA, JANUARY 2015	**Logbook No.**	HNF-N-506 74/21	**Ice Chest No.**	GWS-366
Shipped To (Lab)	TestAmerica St. Louis	**Method of Shipment**	Commercial Carrier	**Bill of Lading/Air Bill No.**	7725 2613 9781
Protocol	RCRA	**Priority:**	**30 Days** **PRIORITY**	**Offsite Property No.**	N/A

POSSIBLE SAMPLE HAZARDS/REMARKS

** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1

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

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B2YVY3	N	W	JAN 08 2015	1324	1x500-mL G/P	310.1_ALKALINITY: GW 01 ✓	14 Days	Cool <=6C
B2YVY3	N	W	↓	↓	1x1-L aGs*	9020_TOX: COMMON ✓	28 Days	H2SO4 to pH <2/Cool <=6C
B2YVY3	N	W	↓	↓	1x250-mL aG	9060_TOC: COMMON ✓	28 Days	HCl or H2SO4 to pH <2/Cool <=6C

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
CHRIS FULTON CHPRC			JAN 08 2015 1410	SSU-1			JAN 08 2015 1410
SSU-1			JAN 09 2015 0915	F.M. Hall CHPRC			JAN 09 2015 0915
F.M. Hall CHPRC			JAN 09 2015	FEDEX			
FED EX				Brian Daniels			1/10/15 0900

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 841748

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **W15-001-153**

Collector	CHRIS FULTON CHPRC	**Contact/Requester**	Karen Waters-Husted	**Telephone No.**	509-376-4650
SAF No.	W15-001	**Sampling Origin**	Hanford Site	**Purchase Order/Charge Code**	300071
Project Title	RCRA, JANUARY 2015	**Logbook No.**	HNF-N-506 74/21	**Ice Chest No.**	GWS-366
Shipped To (Lab)	TestAmerica St. Louis	**Method of Shipment**	Commercial Carrier	**Bill of Lading/Air Bill No.**	7725 2613 9781
Protocol	RCRA	**Priority:**	**30 Days** **PRIORITY**	**Offsite Property No.**	N/A

POSSIBLE SAMPLE HAZARDS/REMARKS

** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1

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

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B2YVY4	N	W	JAN 08 2015	1324	1x500-mL G/P	310.1_ALKALINITY: GW 01 ✓	14 Days	Cool <=6C
B2YVY4	N	W	↓	↓	1x1-L aGs*	9020_TOX: COMMON ✓	28 Days	H2SO4 to pH <2/Cool <=6C
B2YVY4	N	W	↓	↓	1x250-mL aG	9060_TOC: COMMON ✓	28 Days	HCl or H2SO4 to pH <2/Cool <=6C

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
CHRIS FULTON CHPRC			JAN 08 2015 1410	SSU-1			JAN 08 2015 1410
SSU-1			JAN 09 2015 0915	F.M. Hall CHPRC			JAN 09 2015 0915
F.M. Hall CHPRC			JAN 09 2015 1400	FEDEX			
		FED EX		Brian Daniels			1/10/15 0900

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 O 12/9/2014

A-6004-842 (REV 2)

CH2MHill Plateau Remediation Company

SL1748

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **W15-001-154**

Page 1 of 1

Collector	CHRIS FULTON CHPRC	**Contact/Requester**	Karen Waters-Husted	**Telephone No.**	509-376-4650
SAF No.	W15-001	**Sampling Origin**	Hanford Site	**Purchase Order/Charge Code**	300071
Project Title	RCRA, JANUARY 2015	**Logbook No.**	HNF-N-506 74/20	**Ice Chest No.**	GWS-366
Shipped To (Lab)	TestAmerica St. Louis	**Method of Shipment**	Commercial Carrier	**Bill of Lading/Air Bill No.**	7725 2613 9781
Protocol	RCRA	**Priority:**	30 Days **PRIORITY**	**Offsite Property No.**	N/A

POSSIBLE SAMPLE HAZARDS/REMARKS

** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1

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

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B2YW03	N	W	JAN 0 8 2015	1242	1x500-mL G/P	310.1_ALKALINITY: GW 01	14 Days	Cool <=6C
B2YW03	N	W	↓	↓	1x1-L aGs*	9020_TOX: COMMON	28 Days	H2SO4 to pH <2/Cool <=6C
B2YW03	N	W	↓	↓	1x250-mL aG	9060_TOC: COMMON	28 Days	HCl or H2SO4 to pH <2/Cool <=6C

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
CHRIS FULTON CHPRC			JAN 0 8 2015 1410	SSU-1			JAN 0 8 2015 1410
SSU-1			JAN 0 9 2015 0915	F.M. Hall CHPRC			JAN 0 9 2015 0915
F.M. Hall CHPRC			JAN 0 9 2015 1400	FEDEX			
		FED EX		Brian Daniels			1/10/15 0900

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 O 12/8/2014

A-6004-842 (REV 2)

CH2MHill Plateau Remediation Company 921748

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **X15-004-093**

Page 1 of 1

Collector	J.R. Aguilar/CHPRC	**Contact/Requester**	WATERS-HUSTED, K	**Telephone No.**	376-4650
SAF No.	X15-004	**Sampling Origin**	HANFORD SITE	**Purchase Order/Charge Code**	303064ES20
Project Title	GW Sitewide Surv, FY15	**Logbook No.**	HNF-N-506 73 / 60	**Ice Chest No.**	GWS - 3660
Shipped To (Lab)	TestAmerica St. Louis	**Method of Shipment**	Commercial Carrier	**Bill of Lading/Air Bill No.**	7725 2613 9781
Protocol	SURV	**Priority:**	**30 Days** **PRIORITY**	**Offsite Property No.**	N/A

POSSIBLE SAMPLE HAZARDS/REMARKS

*Contains Radioactive Material at concentrations that are not be regulated for transportation per 49 CFR/IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1.

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

Batch with A, I, S, and W SAFs.

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B2Y4C8	N	W	1-8-15	1355	4x40-mL aGs*	8260_VOA_GCMS: COMMON ✓	14 Days	HCl or H2SO4 to pH <2/Cool <=6C

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
J.R. Aguilar/CHPRC		JAN 0 8 2015	1510	SSU-1		JAN 0 8 2015	1510
SSU-1			JAN 0 9 2015 0915	F.M. Hall CHPRC			JAN 0 9 2015 0915
F.M. Hall CHPRC			JAN 0 9 2015 1400	FEDEX			
FED EX				Brian Daniels			1/10/15 0900

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 O 9/12/2014 A-6004-842 (REV 2)

IMPORTANT!
A winter storm is causing potential delays and disruptions in the northeastern U.S. Learn More

Delivered

Tracking No.or Nickname	Shipper city, state	Origin Terminal	Ship (P/U) date	Status	Recipient city, state	Delivery date
772530279736	RICHLAND, WA	PASCO, WA	1/09/2015 3:40 pm		EARTH CITY, MO	1/10/2015 8:58 am
772530397690	RICHLAND, WA	PASCO, WA	1/09/2015 3:40 pm		EARTH CITY, MO	1/10/2015 8:58 am
772526082344	RICHLAND, WA	PASCO, WA	1/09/2015 3:40 pm		EARTH CITY, MO	1/10/2015 8:58 am
772526139781	RICHLAND, WA	PASCO, WA	1/09/2015 3:40 pm		EARTH CITY, MO	1/10/2015 8:58 am

Showing 1 of 4

Delivered

772530279736

Travel History

Date/Time	Activity	Location
1/10/2015 - Saturday		
8:58 am	Delivered	EARTH CITY, MO
8:12 am	On FedEx vehicle for delivery	EARTH CITY, MO
7:52 am	At local FedEx facility	EARTH CITY, MO
5:38 am	At destination sort facility	BERKELEY, MO
4:50 am	Departed FedEx location	MEMPHIS, TN
12:26 am	Arrived at FedEx location	MEMPHIS, TN
1/09/2015 - Friday		
5:03 pm	Left FedEx origin facility	PASCO, WA
3:40 pm	Picked up	PASCO, WA
3:37 pm	Shipment information sent to FedEx	

Shipment Facts

Tracking number	772530279736	Service	FedEx Priority Overnight
Weight	73 lbs / 33.11 kgs	Delivered To	Shipping/Receiving
Total pieces	1	Total shipment weight	73 lbs / 33.11 kgs
Shipper reference	GWS-360	Packaging	Your Packaging
Special handling section	For Saturday Delivery		

IMPORTANT!
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Delivered

Tracking No.or Nickname	Shipper city, state	Origin Terminal	Ship (P/U) date	Status	Recipient city, state	Delivery date
772530279736	RICHLAND, WA	PASCO, WA	1/09/2015 3:40 pm		EARTH CITY, MO	1/10/2015 8:58 am
772530397690	RICHLAND, WA	PASCO, WA	1/09/2015 3:40 pm		EARTH CITY, MO	1/10/2015 8:58 am
772526082344	RICHLAND, WA	PASCO, WA	1/09/2015 3:40 pm		EARTH CITY, MO	1/10/2015 8:58 am
772526139781	RICHLAND, WA	PASCO, WA	1/09/2015 3:40 pm		EARTH CITY, MO	1/10/2015 8:58 am

Showing 2 of 4

Delivered

772530397690

Travel History

Date/Time	Activity	Location
1/10/2015 - Saturday		
8:58 am	Delivered	EARTH CITY, MO
8:12 am	On FedEx vehicle for delivery	EARTH CITY, MO
7:38 am	At local FedEx facility	EARTH CITY, MO
5:38 am	At destination sort facility	BERKELEY, MO
4:50 am	Departed FedEx location	MEMPHIS, TN
12:26 am	Arrived at FedEx location	MEMPHIS, TN
1/09/2015 - Friday		
5:03 pm	Left FedEx origin facility	PASCO, WA
3:40 pm	Picked up	PASCO, WA
3:35 pm	Shipment information sent to FedEx	

Shipment Facts

Tracking number	772530397690	Service	FedEx Priority Overnight
Weight	85 lbs / 38.56 kgs	Delivered To	Shipping/Receiving
Total pieces	1	Total shipment weight	85 lbs / 38.56 kgs
Shipper reference	GWS-364	Packaging	Your Packaging
Special handling section	For Saturday Delivery		

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Delivered

Tracking No.or Nickname	Shipper city, state	Origin Terminal	Ship (P/U) date	Status	Recipient city, state	Delivery date
772530279736	RICHLAND, WA	PASCO, WA	1/09/2015 3:40 pm		EARTH CITY, MO	1/10/2015 8:58 am
772530397690	RICHLAND, WA	PASCO, WA	1/09/2015 3:40 pm		EARTH CITY, MO	1/10/2015 8:58 am
772526082344	RICHLAND, WA	PASCO, WA	1/09/2015 3:40 pm		EARTH CITY, MO	1/10/2015 8:58 am
772526139781	RICHLAND, WA	PASCO, WA	1/09/2015 3:40 pm		EARTH CITY, MO	1/10/2015 8:58 am

Delivered Showing 3 of 4

772526082344

Travel History

Date/Time	Activity	Location
- 1/10/2015 - Saturday		
8:58 am	Delivered	EARTH CITY, MO
8:12 am	On FedEx vehicle for delivery	EARTH CITY, MO
8:00 am	At local FedEx facility	EARTH CITY, MO
5:38 am	At destination sort facility	BERKELEY, MO
4:50 am	Departed FedEx location	MEMPHIS, TN
12:26 am	Arrived at FedEx location	MEMPHIS, TN
- 1/09/2015 - Friday		
5:03 pm	Left FedEx origin facility	PASCO, WA
3:40 pm	Picked up	PASCO, WA
1:01 pm	Shipment information sent to FedEx	

Shipment Facts

Tracking number	772526082344	Service	FedEx Priority Overnight
Weight	72 lbs / 32.66 kgs	Delivered To	Shipping/Receiving
Total pieces	1	Total shipment weight	72 lbs / 32.66 kgs
Shipper reference	gws-304	Packaging	Your Packaging
Special handling section	For Saturday Delivery		

IMPORTANT!
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Delivered

Tracking No.or Nickname	Shipper city, state	Origin Terminal	Ship (P/U) date	Status	Recipient city, state	Delivery date
772530279736	RICHLAND, WA	PASCO, WA	1/09/2015 3:40 pm		EARTH CITY, MO	1/10/2015 8:58 am
772530397690	RICHLAND, WA	PASCO, WA	1/09/2015 3:40 pm		EARTH CITY, MO	1/10/2015 8:58 am
772526082344	RICHLAND, WA	PASCO, WA	1/09/2015 3:40 pm		EARTH CITY, MO	1/10/2015 8:58 am
772526139781	RICHLAND, WA	PASCO, WA	1/09/2015 3:40 pm		EARTH CITY, MO	1/10/2015 8:58 am

Delivered Showing 4 of 4

772526139781

Travel History

Date/Time	Activity	Location
1/10/2015 - Saturday		
8:58 am	Delivered	EARTH CITY, MO
8:10 am	On FedEx vehicle for delivery	EARTH CITY, MO
7:53 am	At local FedEx facility	EARTH CITY, MO
5:38 am	At destination sort facility	BERKELEY, MO
4:50 am	Departed FedEx location	MEMPHIS, TN
12:26 am	Arrived at FedEx location	MEMPHIS, TN
1/09/2015 - Friday		
5:03 pm	Left FedEx origin facility	PASCO, WA
3:40 pm	Picked up	PASCO, WA
12:57 pm	Shipment information sent to FedEx	

Shipment Facts

Tracking number	772526139781	Service	FedEx Priority Overnight
Weight	89 lbs / 40.37 kgs	Delivered To	Shipping/Receiving
Total pieces	1	Total shipment weight	89 lbs / 40.37 kgs
Shipper reference	gws-366	Packaging	Your Packaging
Special handling section	For Saturday Delivery		

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS VOA TICs

Qualifier	Qualifier Description
J	Indicates an Estimated Value for TICs
N	Presumptive evidence of material.

GC/MS Semi VOA

Qualifier	Qualifier Description
U	Analyzed for but not detected.
O	LCS, LCSD: Recovery exceeds upper or lower control limits.
B	Analyte was found in the associated method blank as well as in the sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
U	Analyzed for but not detected.
B	Estimated result. Result is less than the RL, but greater than MDL

General Chemistry

Qualifier	Qualifier Description
U	Analyzed for but not detected.
B	Estimated result. Result is less than the RL, but greater than MDL

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Method Summary

Client: CH2M Hill Plateau Remediation Company
Project/Site: S,W,I,A ,X SAFS- GROUNDWATER

TestAmerica Job ID: 160-10061-1
SDG: SL1748

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds (GC/MS)	SW846	TAL SL
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL SL
6010C	Metals (ICP)	SW846	TAL SL
6020A	Metals (ICP/MS)	SW846	TAL SL
310.1	Alkalinity	MCAWW	TAL SL
9020B	Organic Halides, Total (TOX)	SW846	TAL SL
9060	Organic Carbon, Total (TOC)	SW846	TAL SL

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SL = TestAmerica St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Sample Summary

Client: CH2M Hill Plateau Remediation Company
Project/Site: S,W,I,A ,X SAFS- GROUNDWATER

TestAmerica Job ID: 160-10061-1
SDG: SL1748

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
160-10061-1	B2Y4B0	Water	01/08/15 10:54	01/09/15 09:20
160-10061-2	B2Y4C7	Water	01/07/15 09:27	01/09/15 09:20
160-10061-3	B2YWP9	Water	01/08/15 10:54	01/09/15 09:20
160-10061-4	B2YVV8	Water	01/08/15 10:54	01/09/15 09:20
160-10061-5	B2YWR1	Water	01/08/15 10:54	01/09/15 09:20
160-10061-6	B2YWR0	Water	01/08/15 10:54	01/09/15 09:20
160-10061-7	B2YVW6	Water	01/07/15 13:25	01/09/15 09:20
160-10061-8	B2YVW7	Water	01/07/15 13:25	01/09/15 09:20
160-10078-1	B2YWT3	Water	01/09/15 11:55	01/10/15 09:00
160-10078-2	B2YWT1	Water	01/09/15 11:55	01/10/15 09:00
160-10078-3	B2YW10	Water	01/09/15 11:55	01/10/15 09:00
160-10078-4	B2YWT2	Water	01/09/15 11:55	01/10/15 09:00
160-10078-5	B2YWT6	Water	01/09/15 10:16	01/10/15 09:00
160-10078-6	B2YWT4	Water	01/09/15 10:16	01/10/15 09:00
160-10078-7	B2YWT5	Water	01/09/15 10:16	01/10/15 09:00
160-10078-8	B2YW13	Water	01/09/15 10:16	01/10/15 09:00
160-10078-9	B2YWF9	Water	01/09/15 10:25	01/10/15 09:00
160-10078-10	B2YWF7	Water	01/09/15 10:25	01/10/15 09:00
160-10078-11	B300R0	Water	01/09/15 10:16	01/10/15 09:00
160-10078-12	B300P9	Water	01/09/15 10:16	01/10/15 09:00
160-10078-13	B2YWV2	Water	01/09/15 08:15	01/10/15 09:00
160-10078-14	B2YWV1	Water	01/09/15 08:15	01/10/15 09:00
160-10078-15	B2YWV0	Water	01/09/15 08:15	01/10/15 09:00
160-10078-16	B2YW33	Water	01/09/15 08:15	01/10/15 09:00
160-10078-17	B2YWR9	Water	01/09/15 09:18	01/10/15 09:00
160-10078-18	B2YWR8	Water	01/09/15 09:18	01/10/15 09:00
160-10078-19	B2YW07	Water	01/09/15 09:18	01/10/15 09:00
160-10078-20	B2YWT0	Water	01/09/15 09:18	01/10/15 09:00
160-10078-21	B300P1	Water	01/09/15 09:18	01/10/15 09:00
160-10078-22	B300P2	Water	01/09/15 09:18	01/10/15 09:00
160-10078-23	B2YVY3	Water	01/08/15 13:24	01/10/15 09:00
160-10078-24	B2YVY4	Water	01/08/15 13:24	01/10/15 09:00
160-10078-25	B2YW03	Water	01/08/15 12:42	01/10/15 09:00
160-10078-26	B2Y4C8	Water	01/08/15 13:55	01/10/15 09:00

Client Sample Results

Client: CH2M Hill Plateau Remediation Company
Project/Site: S,W,I,A ,X SAFS- GROUNDWATER

TestAmerica Job ID: 160-10061-1
SDG: SL1748

Method: 8260C - Volatile Organic Compounds (GC/MS)

Client Sample ID: B2Y4B0 — **Lab Sample ID: 160-10061-1**
Date Collected: 01/08/15 10:54 — **Matrix: Water**
Date Received: 01/09/15 09:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.070	U	1.0	0.070	ug/L			01/13/15 15:58	1
1,1,2-Trichloroethane	0.15	U	1.0	0.15	ug/L			01/13/15 15:58	1
1,1-Dichloroethane	0.070	U	1.0	0.070	ug/L			01/13/15 15:58	1
1,1-Dichloroethene	0.080	U	1.0	0.080	ug/L			01/13/15 15:58	1
1,2-Dichloroethane	0.10	U	1.0	0.10	ug/L			01/13/15 15:58	1
2-Butanone (MEK)	0.52	U	5.0	0.52	ug/L			01/13/15 15:58	1
4-Methyl-2-pentanone (MIBK)	0.12	U	5.0	0.12	ug/L			01/13/15 15:58	1
Acetone	0.34	U	2.0	0.34	ug/L			01/13/15 15:58	1
Benzene	0.060	U	1.0	0.060	ug/L			01/13/15 15:58	1
Carbon disulfide	0.050	U	1.0	0.050	ug/L			01/13/15 15:58	1
Carbon tetrachloride	0.13	U	1.0	0.13	ug/L			01/13/15 15:58	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			01/13/15 15:58	1
Chloroform	0.10	U	1.0	0.10	ug/L			01/13/15 15:58	1
Ethylbenzene	0.090	U	1.0	0.090	ug/L			01/13/15 15:58	1
Methylene Chloride	**1.2**		1.0	0.27	ug/L			01/13/15 15:58	1
Tetrachloroethene	0.18	U	1.0	0.18	ug/L			01/13/15 15:58	1
Toluene	0.070	U	1.0	0.070	ug/L			01/13/15 15:58	1
Trichloroethene	0.25	U	1.0	0.25	ug/L			01/13/15 15:58	1
Vinyl chloride	0.080	U	2.0	0.080	ug/L			01/13/15 15:58	1
Xylenes, Total	0.20	U	3.0	0.20	ug/L			01/13/15 15:58	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Cyclotetrasiloxane, octamethyl-	*1.5*	*N J*	*ug/L*		*13.11*	*556-67-2*		*01/13/15 15:58*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*75 - 129*		*01/13/15 15:58*	*1*
4-Bromofluorobenzene (Surr)	*128*		*81 - 130*		*01/13/15 15:58*	*1*
Dibromofluoromethane (Surr)	*110*		*81 - 124*		*01/13/15 15:58*	*1*
Toluene-d8 (Surr)	*115*		*87 - 128*		*01/13/15 15:58*	*1*

Client Sample ID: B2Y4C7 — **Lab Sample ID: 160-10061-2**
Date Collected: 01/07/15 09:27 — **Matrix: Water**
Date Received: 01/09/15 09:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.070	U	1.0	0.070	ug/L			01/13/15 16:23	1
1,1,2-Trichloroethane	0.15	U	1.0	0.15	ug/L			01/13/15 16:23	1
1,1-Dichloroethane	0.070	U	1.0	0.070	ug/L			01/13/15 16:23	1
1,1-Dichloroethene	0.080	U	1.0	0.080	ug/L			01/13/15 16:23	1
1,2-Dichloroethane	0.10	U	1.0	0.10	ug/L			01/13/15 16:23	1
2-Butanone (MEK)	0.52	U	5.0	0.52	ug/L			01/13/15 16:23	1
4-Methyl-2-pentanone (MIBK)	0.12	U	5.0	0.12	ug/L			01/13/15 16:23	1
Acetone	0.34	U	2.0	0.34	ug/L			01/13/15 16:23	1
Benzene	0.060	U	1.0	0.060	ug/L			01/13/15 16:23	1
Carbon disulfide	0.050	U	1.0	0.050	ug/L			01/13/15 16:23	1
Carbon tetrachloride	0.13	U	1.0	0.13	ug/L			01/13/15 16:23	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			01/13/15 16:23	1
Chloroform	0.10	U	1.0	0.10	ug/L			01/13/15 16:23	1
Ethylbenzene	0.090	U	1.0	0.090	ug/L			01/13/15 16:23	1
Methylene Chloride	**9.0**		1.0	0.27	ug/L			01/13/15 16:23	1
Tetrachloroethene	0.18	U	1.0	0.18	ug/L			01/13/15 16:23	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: B2Y4C7 — **Lab Sample ID: 160-10061-2**
Date Collected: 01/07/15 09:27 — **Matrix: Water**
Date Received: 01/09/15 09:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	0.070	U	1.0	0.070	ug/L			01/13/15 16:23	1
Trichloroethene	0.25	U	1.0	0.25	ug/L			01/13/15 16:23	1
Vinyl chloride	0.080	U	2.0	0.080	ug/L			01/13/15 16:23	1
Xylenes, Total	0.20	U	3.0	0.20	ug/L			01/13/15 16:23	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Cyclotetrasiloxane, octamethyl-	*1.6*	*N J*	*ug/L*		*13.11*	*556-67-2*		*01/13/15 16:23*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*75 - 129*		*01/13/15 16:23*	*1*
4-Bromofluorobenzene (Surr)	*125*		*81 - 130*		*01/13/15 16:23*	*1*
Dibromofluoromethane (Surr)	*110*		*81 - 124*		*01/13/15 16:23*	*1*
Toluene-d8 (Surr)	*121*		*87 - 128*		*01/13/15 16:23*	*1*

Client Sample ID: B2YVV8 — **Lab Sample ID: 160-10061-4**
Date Collected: 01/08/15 10:54 — **Matrix: Water**
Date Received: 01/09/15 09:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.070	U	1.0	0.070	ug/L			01/13/15 16:47	1
1,1,2-Trichloroethane	0.15	U	1.0	0.15	ug/L			01/13/15 16:47	1
1,1-Dichloroethane	0.070	U	1.0	0.070	ug/L			01/13/15 16:47	1
1,1-Dichloroethene	0.080	U	1.0	0.080	ug/L			01/13/15 16:47	1
1,2-Dichloroethane	0.10	U	1.0	0.10	ug/L			01/13/15 16:47	1
2-Butanone (MEK)	0.52	U	5.0	0.52	ug/L			01/13/15 16:47	1
4-Methyl-2-pentanone (MIBK)	0.12	U	5.0	0.12	ug/L			01/13/15 16:47	1
Acetone	0.34	U	2.0	0.34	ug/L			01/13/15 16:47	1
Benzene	0.060	U	1.0	0.060	ug/L			01/13/15 16:47	1
Carbon disulfide	0.050	U	1.0	0.050	ug/L			01/13/15 16:47	1
Carbon tetrachloride	0.13	U	1.0	0.13	ug/L			01/13/15 16:47	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			01/13/15 16:47	1
Chloroform	**0.12**	**J**	1.0	0.10	ug/L			01/13/15 16:47	1
Ethylbenzene	0.090	U	1.0	0.090	ug/L			01/13/15 16:47	1
Methylene Chloride	0.27	U	1.0	0.27	ug/L			01/13/15 16:47	1
Tetrachloroethene	0.18	U	1.0	0.18	ug/L			01/13/15 16:47	1
Toluene	0.070	U	1.0	0.070	ug/L			01/13/15 16:47	1
Trichloroethene	0.25	U	1.0	0.25	ug/L			01/13/15 16:47	1
Vinyl chloride	0.080	U	2.0	0.080	ug/L			01/13/15 16:47	1
Xylenes, Total	0.20	U	3.0	0.20	ug/L			01/13/15 16:47	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*5.9*	*N*	*ug/L*		*2.18*			*01/13/15 16:47*	*1*
Cyclotetrasiloxane, octamethyl-	*1.2*	*N J*	*ug/L*		*13.11*	*556-67-2*		*01/13/15 16:47*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*75 - 129*		*01/13/15 16:47*	*1*
4-Bromofluorobenzene (Surr)	*128*		*81 - 130*		*01/13/15 16:47*	*1*
Dibromofluoromethane (Surr)	*117*		*81 - 124*		*01/13/15 16:47*	*1*
Toluene-d8 (Surr)	*119*		*87 - 128*		*01/13/15 16:47*	*1*

Method: 8260C - Volatile Organic Compounds (GC/MS)

Client Sample ID: B2Y4C8 — **Lab Sample ID: 160-10078-26**
Date Collected: 01/08/15 13:55 — **Matrix: Water**
Date Received: 01/10/15 09:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.070	U	1.0	0.070	ug/L			01/14/15 14:19	1
1,1,2-Trichloroethane	0.15	U	1.0	0.15	ug/L			01/14/15 14:19	1
1,1-Dichloroethane	0.070	U	1.0	0.070	ug/L			01/14/15 14:19	1
1,1-Dichloroethene	0.080	U	1.0	0.080	ug/L			01/14/15 14:19	1
1,2-Dichloroethane	0.10	U	1.0	0.10	ug/L			01/14/15 14:19	1
2-Butanone (MEK)	0.52	U	5.0	0.52	ug/L			01/14/15 14:19	1
4-Methyl-2-pentanone (MIBK)	0.12	U	5.0	0.12	ug/L			01/14/15 14:19	1
Acetone	0.34	U	2.0	0.34	ug/L			01/14/15 14:19	1
Benzene	0.060	U	1.0	0.060	ug/L			01/14/15 14:19	1
Carbon disulfide	0.050	U	1.0	0.050	ug/L			01/14/15 14:19	1
Carbon tetrachloride	0.13	U	1.0	0.13	ug/L			01/14/15 14:19	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			01/14/15 14:19	1
Chloroform	0.10	U	1.0	0.10	ug/L			01/14/15 14:19	1
Ethylbenzene	0.090	U	1.0	0.090	ug/L			01/14/15 14:19	1
Methylene Chloride	**7.0**		1.0	0.27	ug/L			01/14/15 14:19	1
Tetrachloroethene	0.18	U	1.0	0.18	ug/L			01/14/15 14:19	1
Toluene	0.070	U	1.0	0.070	ug/L			01/14/15 14:19	1
Trichloroethene	0.25	U	1.0	0.25	ug/L			01/14/15 14:19	1
Vinyl chloride	0.080	U	2.0	0.080	ug/L			01/14/15 14:19	1
Xylenes, Total	0.20	U	3.0	0.20	ug/L			01/14/15 14:19	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*01/14/15 14:19*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*75 - 129*		*01/14/15 14:19*	*1*
4-Bromofluorobenzene (Surr)	*101*		*81 - 130*		*01/14/15 14:19*	*1*
Dibromofluoromethane (Surr)	*102*		*81 - 124*		*01/14/15 14:19*	*1*
Toluene-d8 (Surr)	*109*		*87 - 128*		*01/14/15 14:19*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Client Sample ID: B2YVV8 — **Lab Sample ID: 160-10061-4**
Date Collected: 01/08/15 10:54 — **Matrix: Water**
Date Received: 01/09/15 09:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,4,6-Tetrachlorophenol	0.96	U	48	0.96	ug/L		01/10/15 11:10	01/11/15 16:46	1
2,4,5-Trichlorophenol	0.96	U O	9.6	0.96	ug/L		01/10/15 11:10	01/11/15 16:46	1
2,4,6-Trichlorophenol	0.96	U O	9.6	0.96	ug/L		01/10/15 11:10	01/11/15 16:46	1
2,4-Dichlorophenol	0.96	U O	9.6	0.96	ug/L		01/10/15 11:10	01/11/15 16:46	1
2,4-Dimethylphenol	0.96	U	9.6	0.96	ug/L		01/10/15 11:10	01/11/15 16:46	1
2,4-Dinitrophenol	1.9	U	48	1.9	ug/L		01/10/15 11:10	01/11/15 16:46	1
2,6-Dichlorophenol	0.96	U	9.6	0.96	ug/L		01/10/15 11:10	01/11/15 16:46	1
2-Chlorophenol	0.96	U	9.6	0.96	ug/L		01/10/15 11:10	01/11/15 16:46	1
2-Methylphenol	0.96	U	9.6	0.96	ug/L		01/10/15 11:10	01/11/15 16:46	1
2-Nitrophenol	1.5	U O	9.6	1.5	ug/L		01/10/15 11:10	01/11/15 16:46	1
3 & 4 Methylphenol	1.9	U	19	1.9	ug/L		01/10/15 11:10	01/11/15 16:46	1
4,6-Dinitro-2-methylphenol	1.2	U	9.6	1.2	ug/L		01/10/15 11:10	01/11/15 16:46	1
4-Chloro-3-methylphenol	0.96	U	9.6	0.96	ug/L		01/10/15 11:10	01/11/15 16:46	1
4-Nitrophenol	1.9	U	9.6	1.9	ug/L		01/10/15 11:10	01/11/15 16:46	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: B2YVV8 — **Lab Sample ID: 160-10061-4**
Date Collected: 01/08/15 10:54 — **Matrix: Water**
Date Received: 01/09/15 09:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dinoseb	1.9	U	19	1.9	ug/L		01/10/15 11:10	01/11/15 16:46	1
Pentachlorophenol	1.2	U	9.6	1.2	ug/L		01/10/15 11:10	01/11/15 16:46	1
Phenol	1.9	U	9.6	1.9	ug/L		01/10/15 11:10	01/11/15 16:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*89*		*47 - 103*	*01/10/15 11:10*	*01/11/15 16:46*	*1*
2-Fluorobiphenyl (Surr)	*83*		*30 - 99*	*01/10/15 11:10*	*01/11/15 16:46*	*1*
2-Fluorophenol (Surr)	*36*		*10 - 74*	*01/10/15 11:10*	*01/11/15 16:46*	*1*
Nitrobenzene-d5 (Surr)	*80*		*31 - 105*	*01/10/15 11:10*	*01/11/15 16:46*	*1*
Phenol-d5 (Surr)	*21*		*10 - 50*	*01/10/15 11:10*	*01/11/15 16:46*	*1*
Terphenyl-d14 (Surr)	*66*		*68 - 116*	*01/10/15 11:10*	*01/11/15 16:46*	*1*

Client Sample ID: B2YW10 — **Lab Sample ID: 160-10078-3**
Date Collected: 01/09/15 11:55 — **Matrix: Water**
Date Received: 01/10/15 09:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Picoline	1.9	U	19	1.9	ug/L		01/16/15 15:13	01/27/15 17:24	1
3 & 4 Methylphenol	1.9	U	19	1.9	ug/L		01/16/15 15:13	01/27/15 17:24	1
Tributyl phosphate	**8.9**	**J B**	9.5	0.95	ug/L		01/16/15 15:13	01/27/15 17:24	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*				*01/16/15 15:13*	*01/27/15 17:24*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*80*		*47 - 103*	*01/16/15 15:13*	*01/27/15 17:24*	*1*
2-Fluorobiphenyl (Surr)	*84*		*30 - 99*	*01/16/15 15:13*	*01/27/15 17:24*	*1*
2-Fluorophenol (Surr)	*40*		*10 - 74*	*01/16/15 15:13*	*01/27/15 17:24*	*1*
Nitrobenzene-d5 (Surr)	*83*		*31 - 105*	*01/16/15 15:13*	*01/27/15 17:24*	*1*
Phenol-d5 (Surr)	*25*		*10 - 50*	*01/16/15 15:13*	*01/27/15 17:24*	*1*
Terphenyl-d14 (Surr)	*84*		*68 - 116*	*01/16/15 15:13*	*01/27/15 17:24*	*1*

Client Sample ID: B2YW13 — **Lab Sample ID: 160-10078-8**
Date Collected: 01/09/15 10:16 — **Matrix: Water**
Date Received: 01/10/15 09:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Picoline	1.9	U	19	1.9	ug/L		01/16/15 15:13	01/27/15 19:02	1
3 & 4 Methylphenol	1.9	U	19	1.9	ug/L		01/16/15 15:13	01/27/15 19:02	1
Tributyl phosphate	0.95	U	9.5	0.95	ug/L		01/16/15 15:13	01/27/15 19:02	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*				*01/16/15 15:13*	*01/27/15 19:02*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*86*		*47 - 103*	*01/16/15 15:13*	*01/27/15 19:02*	*1*
2-Fluorobiphenyl (Surr)	*91*		*30 - 99*	*01/16/15 15:13*	*01/27/15 19:02*	*1*
2-Fluorophenol (Surr)	*44*		*10 - 74*	*01/16/15 15:13*	*01/27/15 19:02*	*1*
Nitrobenzene-d5 (Surr)	*89*		*31 - 105*	*01/16/15 15:13*	*01/27/15 19:02*	*1*
Phenol-d5 (Surr)	*27*		*10 - 50*	*01/16/15 15:13*	*01/27/15 19:02*	*1*
Terphenyl-d14 (Surr)	*89*		*68 - 116*	*01/16/15 15:13*	*01/27/15 19:02*	*1*

Client Sample Results

Client: CH2M Hill Plateau Remediation Company
Project/Site: S,W,I,A ,X SAFS- GROUNDWATER

TestAmerica Job ID: 160-10061-1
SDG: SL1748

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Client Sample ID: B2YW33 — **Lab Sample ID: 160-10078-16**
Date Collected: 01/09/15 08:15 — **Matrix: Water**
Date Received: 01/10/15 09:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,4,6-Tetrachlorophenol	0.95	U	48	0.95	ug/L		01/16/15 15:13	01/27/15 19:35	1
2,4,5-Trichlorophenol	0.95	U O	9.5	0.95	ug/L		01/16/15 15:13	01/27/15 19:35	1
2,4,6-Trichlorophenol	0.95	U O	9.5	0.95	ug/L		01/16/15 15:13	01/27/15 19:35	1
2,4-Dichlorophenol	0.95	U O	9.5	0.95	ug/L		01/16/15 15:13	01/27/15 19:35	1
2,4-Dimethylphenol	0.95	U	9.5	0.95	ug/L		01/16/15 15:13	01/27/15 19:35	1
2,4-Dinitrophenol	1.9	U	48	1.9	ug/L		01/16/15 15:13	01/27/15 19:35	1
2,6-Dichlorophenol	0.95	U	9.5	0.95	ug/L		01/16/15 15:13	01/27/15 19:35	1
2-Chlorophenol	0.95	U	9.5	0.95	ug/L		01/16/15 15:13	01/27/15 19:35	1
2-Methylphenol	0.95	U	9.5	0.95	ug/L		01/16/15 15:13	01/27/15 19:35	1
2-Nitrophenol	1.4	U	9.5	1.4	ug/L		01/16/15 15:13	01/27/15 19:35	1
3 & 4 Methylphenol	1.9	U	19	1.9	ug/L		01/16/15 15:13	01/27/15 19:35	1
4,6-Dinitro-2-methylphenol	1.2	U	9.5	1.2	ug/L		01/16/15 15:13	01/27/15 19:35	1
4-Chloro-3-methylphenol	0.95	U	9.5	0.95	ug/L		01/16/15 15:13	01/27/15 19:35	1
4-Nitrophenol	1.9	U	9.5	1.9	ug/L		01/16/15 15:13	01/27/15 19:35	1
Dinoseb	1.9	U	19	1.9	ug/L		01/16/15 15:13	01/27/15 19:35	1
Pentachlorophenol	1.2	U	9.5	1.2	ug/L		01/16/15 15:13	01/27/15 19:35	1
Phenol	1.9	U	9.5	1.9	ug/L		01/16/15 15:13	01/27/15 19:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*80*		*47 - 103*	*01/16/15 15:13*	*01/27/15 19:35*	*1*
2-Fluorobiphenyl (Surr)	*84*		*30 - 99*	*01/16/15 15:13*	*01/27/15 19:35*	*1*
2-Fluorophenol (Surr)	*41*		*10 - 74*	*01/16/15 15:13*	*01/27/15 19:35*	*1*
Nitrobenzene-d5 (Surr)	*83*		*31 - 105*	*01/16/15 15:13*	*01/27/15 19:35*	*1*
Phenol-d5 (Surr)	*25*		*10 - 50*	*01/16/15 15:13*	*01/27/15 19:35*	*1*
Terphenyl-d14 (Surr)	*89*		*68 - 116*	*01/16/15 15:13*	*01/27/15 19:35*	*1*

Client Sample ID: B2YW07 — **Lab Sample ID: 160-10078-19**
Date Collected: 01/09/15 09:18 — **Matrix: Water**
Date Received: 01/10/15 09:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Picoline	1.9	U	19	1.9	ug/L		01/16/15 15:13	01/27/15 20:07	1
3 & 4 Methylphenol	1.9	U	19	1.9	ug/L		01/16/15 15:13	01/27/15 20:07	1
Tributyl phosphate	**2.5**	**J B**	9.7	0.97	ug/L		01/16/15 15:13	01/27/15 20:07	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*				*01/16/15 15:13*	*01/27/15 20:07*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*80*		*47 - 103*	*01/16/15 15:13*	*01/27/15 20:07*	*1*
2-Fluorobiphenyl (Surr)	*85*		*30 - 99*	*01/16/15 15:13*	*01/27/15 20:07*	*1*
2-Fluorophenol (Surr)	*42*		*10 - 74*	*01/16/15 15:13*	*01/27/15 20:07*	*1*
Nitrobenzene-d5 (Surr)	*84*		*31 - 105*	*01/16/15 15:13*	*01/27/15 20:07*	*1*
Phenol-d5 (Surr)	*26*		*10 - 50*	*01/16/15 15:13*	*01/27/15 20:07*	*1*
Terphenyl-d14 (Surr)	*82*		*68 - 116*	*01/16/15 15:13*	*01/27/15 20:07*	*1*

Client Sample Results

Client: CH2M Hill Plateau Remediation Company
Project/Site: S,W,I,A ,X SAFS- GROUNDWATER

TestAmerica Job ID: 160-10061-1
SDG: SL1748

Method: 6010C - Metals (ICP)

Client Sample ID: B2YVW6 — **Lab Sample ID: 160-10061-7**
Date Collected: 01/07/15 13:25 — **Matrix: Water**
Date Received: 01/09/15 09:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	3.7	U	10.0	3.7	ug/L		01/19/15 13:44	01/21/15 19:57	1
Arsenic	**3.2**	**B**	10.0	1.8	ug/L		01/19/15 13:44	01/21/15 19:57	1
Barium	**71.6**		50.0	2.1	ug/L		01/19/15 13:44	01/21/15 19:57	1
Beryllium	0.28	U	5.0	0.28	ug/L		01/19/15 13:44	01/21/15 19:57	1
Cadmium	0.34	U	5.0	0.34	ug/L		01/19/15 13:44	01/21/15 19:57	1
Calcium	**60800**		1000	54.2	ug/L		01/19/15 13:44	01/21/15 19:57	1
Chromium	**25.8**		10.0	3.4	ug/L		01/19/15 13:44	01/21/15 19:57	1
Cobalt	2.7	U	50.0	2.7	ug/L		01/19/15 13:44	01/21/15 19:57	1
Copper	2.1	U	25.0	2.1	ug/L		01/19/15 13:44	01/21/15 19:57	1
Iron	**101**		100	12.8	ug/L		01/19/15 13:44	01/21/15 19:57	1
Magnesium	**17600**		1000	50.5	ug/L		01/19/15 13:44	01/21/15 19:57	1
Manganese	**3.1**	**B**	15.0	1.0	ug/L		01/19/15 13:44	01/21/15 19:57	1
Nickel	**17.5**	**B**	40.0	2.6	ug/L		01/19/15 13:44	01/21/15 19:57	1
Potassium	**7220**		5000	456	ug/L		01/19/15 13:44	01/21/15 19:57	1
Silver	0.99	U	10.0	0.99	ug/L		01/19/15 13:44	01/21/15 19:57	1
Sodium	**23400**		1000	105	ug/L		01/19/15 13:44	01/21/15 19:57	1
Strontium	**287**		5.0	0.24	ug/L		01/19/15 13:44	01/21/15 19:57	1
Vanadium	**17.7**	**B**	50.0	4.4	ug/L		01/19/15 13:44	01/21/15 19:57	1
Zinc	8.3	U	20.0	8.3	ug/L		01/19/15 13:44	01/21/15 19:57	1

Client Sample ID: B2YWF7 — **Lab Sample ID: 160-10078-10**
Date Collected: 01/09/15 10:25 — **Matrix: Water**
Date Received: 01/10/15 09:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	3.7	U	10.0	3.7	ug/L		01/19/15 13:44	01/21/15 20:19	1
Arsenic	1.8	U	10.0	1.8	ug/L		01/19/15 13:44	01/21/15 20:19	1
Barium	**63.3**		50.0	2.1	ug/L		01/19/15 13:44	01/21/15 20:19	1
Cadmium	0.34	U	5.0	0.34	ug/L		01/19/15 13:44	01/21/15 20:19	1
Calcium	**46300**		1000	54.2	ug/L		01/19/15 13:44	01/21/15 20:19	1
Chromium	**9.2**	**B**	10.0	3.4	ug/L		01/19/15 13:44	01/21/15 20:19	1
Cobalt	2.7	U	50.0	2.7	ug/L		01/19/15 13:44	01/21/15 20:19	1
Copper	2.1	U	25.0	2.1	ug/L		01/19/15 13:44	01/21/15 20:19	1
Iron	**22.8**	**B**	100	12.8	ug/L		01/19/15 13:44	01/21/15 20:19	1
Magnesium	**13000**		1000	50.5	ug/L		01/19/15 13:44	01/21/15 20:19	1
Manganese	**2.2**	**B**	15.0	1.0	ug/L		01/19/15 13:44	01/21/15 20:19	1
Nickel	**14.1**	**B**	40.0	2.6	ug/L		01/19/15 13:44	01/21/15 20:19	1
Potassium	**4240**	**B**	5000	456	ug/L		01/19/15 13:44	01/21/15 20:19	1
Silver	0.99	U	10.0	0.99	ug/L		01/19/15 13:44	01/21/15 20:19	1
Sodium	**22200**		1000	105	ug/L		01/19/15 13:44	01/21/15 20:19	1
Vanadium	**18.7**	**B**	50.0	4.4	ug/L		01/19/15 13:44	01/21/15 20:19	1
Zinc	**14.7**	**B**	20.0	8.3	ug/L		01/19/15 13:44	01/21/15 20:19	1

Client Sample ID: B300P9 — **Lab Sample ID: 160-10078-12**
Date Collected: 01/09/15 10:16 — **Matrix: Water**
Date Received: 01/10/15 09:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**47300**		1000	54.2	ug/L		01/19/15 13:44	01/21/15 20:27	1
Iron	**151**		100	12.8	ug/L		01/19/15 13:44	01/21/15 20:27	1
Magnesium	**10600**		1000	50.5	ug/L		01/19/15 13:44	01/21/15 20:27	1
Potassium	**7750**		5000	456	ug/L		01/19/15 13:44	01/21/15 20:27	1

Method: 6010C - Metals (ICP) (Continued)

Client Sample ID: B300P9 — **Lab Sample ID: 160-10078-12**
Date Collected: 01/09/15 10:16 — **Matrix: Water**
Date Received: 01/10/15 09:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	18900		1000	105	ug/L		01/19/15 13:44	01/21/15 20:27	1
Vanadium	33.0	B	50.0	4.4	ug/L		01/19/15 13:44	01/21/15 20:27	1
Boron	14.5	B	50.0	7.2	ug/L		01/19/15 13:44	01/21/15 20:27	1

Client Sample ID: B300P1 — **Lab Sample ID: 160-10078-21**
Date Collected: 01/09/15 09:18 — **Matrix: Water**
Date Received: 01/10/15 09:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	57600		1000	54.2	ug/L		01/19/15 13:44	01/21/15 20:39	1
Iron	260		100	12.8	ug/L		01/19/15 13:44	01/21/15 20:39	1
Magnesium	14300		1000	50.5	ug/L		01/19/15 13:44	01/21/15 20:39	1
Potassium	7730		5000	456	ug/L		01/19/15 13:44	01/21/15 20:39	1
Sodium	24000		1000	105	ug/L		01/19/15 13:44	01/21/15 20:39	1
Vanadium	18.1	B	50.0	4.4	ug/L		01/19/15 13:44	01/21/15 20:39	1
Boron	16.4	B	50.0	7.2	ug/L		01/19/15 13:44	01/21/15 20:39	1

Method: 6010C - Metals (ICP) - Dissolved

Client Sample ID: B2YVW7 — **Lab Sample ID: 160-10061-8**
Date Collected: 01/07/15 13:25 — **Matrix: Water**
Date Received: 01/09/15 09:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	3.7	U	10.0	3.7	ug/L		01/19/15 13:44	01/21/15 20:12	1
Arsenic	2.5	B	10.0	1.8	ug/L		01/19/15 13:44	01/21/15 20:12	1
Barium	72.0		50.0	2.1	ug/L		01/19/15 13:44	01/21/15 20:12	1
Beryllium	0.50	B	5.0	0.28	ug/L		01/19/15 13:44	01/21/15 20:12	1
Cadmium	0.34	U	5.0	0.34	ug/L		01/19/15 13:44	01/21/15 20:12	1
Calcium	61200		1000	54.2	ug/L		01/19/15 13:44	01/21/15 20:12	1
Chromium	5.5	B	10.0	3.4	ug/L		01/19/15 13:44	01/21/15 20:12	1
Cobalt	2.7	U	50.0	2.7	ug/L		01/19/15 13:44	01/21/15 20:12	1
Copper	2.1	U	25.0	2.1	ug/L		01/19/15 13:44	01/21/15 20:12	1
Iron	32.5	B	100	12.8	ug/L		01/19/15 13:44	01/21/15 20:12	1
Magnesium	17400		1000	50.5	ug/L		01/19/15 13:44	01/21/15 20:12	1
Manganese	3.6	B	15.0	1.0	ug/L		01/19/15 13:44	01/21/15 20:12	1
Nickel	9.5	B	40.0	2.6	ug/L		01/19/15 13:44	01/21/15 20:12	1
Potassium	7220		5000	456	ug/L		01/19/15 13:44	01/21/15 20:12	1
Silver	0.99	U	10.0	0.99	ug/L		01/19/15 13:44	01/21/15 20:12	1
Sodium	23500		1000	105	ug/L		01/19/15 13:44	01/21/15 20:12	1
Strontium	287		5.0	0.24	ug/L		01/19/15 13:44	01/21/15 20:12	1
Vanadium	16.3	B	50.0	4.4	ug/L		01/19/15 13:44	01/21/15 20:12	1
Zinc	8.3	U	20.0	8.3	ug/L		01/19/15 13:44	01/21/15 20:12	1

Client Sample ID: B2YWF9 — **Lab Sample ID: 160-10078-9**
Date Collected: 01/09/15 10:25 — **Matrix: Water**
Date Received: 01/10/15 09:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	3.7	U	10.0	3.7	ug/L		01/19/15 13:44	01/21/15 20:16	1
Arsenic	1.9	B	10.0	1.8	ug/L		01/19/15 13:44	01/21/15 20:16	1
Barium	66.1		50.0	2.1	ug/L		01/19/15 13:44	01/21/15 20:16	1
Cadmium	0.34	U	5.0	0.34	ug/L		01/19/15 13:44	01/21/15 20:16	1

Method: 6010C - Metals (ICP) - Dissolved (Continued)

Client Sample ID: B2YWF9 — **Lab Sample ID: 160-10078-9**
Date Collected: 01/09/15 10:25 — **Matrix: Water**
Date Received: 01/10/15 09:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	47500		1000	54.2	ug/L		01/19/15 13:44	01/21/15 20:16	1
Chromium	7.8	B	10.0	3.4	ug/L		01/19/15 13:44	01/21/15 20:16	1
Cobalt	2.7	U	50.0	2.7	ug/L		01/19/15 13:44	01/21/15 20:16	1
Copper	2.6	B	25.0	2.1	ug/L		01/19/15 13:44	01/21/15 20:16	1
Iron	43.2	B	100	12.8	ug/L		01/19/15 13:44	01/21/15 20:16	1
Magnesium	13400		1000	50.5	ug/L		01/19/15 13:44	01/21/15 20:16	1
Manganese	1.7	B	15.0	1.0	ug/L		01/19/15 13:44	01/21/15 20:16	1
Nickel	14.1	B	40.0	2.6	ug/L		01/19/15 13:44	01/21/15 20:16	1
Potassium	4430	B	5000	456	ug/L		01/19/15 13:44	01/21/15 20:16	1
Silver	0.99	U	10.0	0.99	ug/L		01/19/15 13:44	01/21/15 20:16	1
Sodium	23000		1000	105	ug/L		01/19/15 13:44	01/21/15 20:16	1
Vanadium	16.2	B	50.0	4.4	ug/L		01/19/15 13:44	01/21/15 20:16	1
Zinc	14.7	B	20.0	8.3	ug/L		01/19/15 13:44	01/21/15 20:16	1

Client Sample ID: B300R0 — **Lab Sample ID: 160-10078-11**
Date Collected: 01/09/15 10:16 — **Matrix: Water**
Date Received: 01/10/15 09:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	13.2	B	50.0	7.2	ug/L		01/19/15 13:44	01/21/15 20:23	1
Calcium	48900		1000	54.2	ug/L		01/19/15 13:44	01/21/15 20:23	1
Iron	105		100	12.8	ug/L		01/19/15 13:44	01/21/15 20:23	1
Magnesium	10800		1000	50.5	ug/L		01/19/15 13:44	01/21/15 20:23	1
Potassium	7740		5000	456	ug/L		01/19/15 13:44	01/21/15 20:23	1
Sodium	19100		1000	105	ug/L		01/19/15 13:44	01/21/15 20:23	1
Vanadium	31.0	B	50.0	4.4	ug/L		01/19/15 13:44	01/21/15 20:23	1

Client Sample ID: B300P2 — **Lab Sample ID: 160-10078-22**
Date Collected: 01/09/15 09:18 — **Matrix: Water**
Date Received: 01/10/15 09:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	13.9	B	50.0	7.2	ug/L		01/19/15 13:44	01/21/15 20:43	1
Calcium	57100		1000	54.2	ug/L		01/19/15 13:44	01/21/15 20:43	1
Iron	80.2	B	100	12.8	ug/L		01/19/15 13:44	01/21/15 20:43	1
Magnesium	14000		1000	50.5	ug/L		01/19/15 13:44	01/21/15 20:43	1
Potassium	7570		5000	456	ug/L		01/19/15 13:44	01/21/15 20:43	1
Sodium	23600		1000	105	ug/L		01/19/15 13:44	01/21/15 20:43	1
Vanadium	18.2	B	50.0	4.4	ug/L		01/19/15 13:44	01/21/15 20:43	1

Method: 6020A - Metals (ICP/MS)

Client Sample ID: B300P9 — **Lab Sample ID: 160-10078-12**
Date Collected: 01/09/15 10:16 — **Matrix: Water**
Date Received: 01/10/15 09:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	12.9	U	30.0	12.9	ug/L		01/19/15 13:51	01/30/15 23:17	2
Antimony	1.7	U	5.0	1.7	ug/L		01/19/15 13:51	01/30/15 23:17	2
Arsenic	9.2	B	10.0	1.2	ug/L		01/19/15 13:51	01/30/15 23:17	2
Barium	33.4		2.0	0.22	ug/L		01/19/15 13:51	01/30/15 23:17	2
Beryllium	0.35	U	0.50	0.35	ug/L		01/19/15 13:51	01/30/15 23:17	2
Cadmium	0.10	U	0.50	0.10	ug/L		01/19/15 13:51	01/30/15 23:17	2

Method: 6020A - Metals (ICP/MS) (Continued)

Client Sample ID: B300P9 — **Lab Sample ID: 160-10078-12**
Date Collected: 01/09/15 10:16 — **Matrix: Water**
Date Received: 01/10/15 09:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	1.0	U	10.0	1.0	ug/L		01/19/15 13:51	01/30/15 23:17	2
Cobalt	0.22	U	2.0	0.22	ug/L		01/19/15 13:51	01/30/15 23:17	2
Copper	0.45	U	1.0	0.45	ug/L		01/19/15 13:51	01/30/15 23:17	2
Lead	**0.20**	**B**	3.0	0.17	ug/L		01/19/15 13:51	01/30/15 23:17	2
Manganese	**97.1**		2.0	0.25	ug/L		01/19/15 13:51	01/30/15 23:17	2
Molybdenum	**4.7**	**B**	5.0	1.0	ug/L		01/19/15 13:51	01/30/15 23:17	2
Nickel	**0.42**	**B**	5.0	0.40	ug/L		01/19/15 13:51	01/30/15 23:17	2
Selenium	**2.0**	**B**	5.0	1.6	ug/L		01/19/15 13:51	01/30/15 23:17	2
Silver	0.82	U	2.0	0.82	ug/L		01/19/15 13:51	01/30/15 23:17	2
Strontium	**239**		5.0	0.060	ug/L		01/19/15 13:51	01/30/15 23:17	2
Thallium	0.55	U	2.0	0.55	ug/L		01/19/15 13:51	01/30/15 23:17	2
Thorium	0.55	U	2.0	0.55	ug/L		01/19/15 13:51	01/30/15 23:17	2
Tin	1.1	U	2.0	1.1	ug/L		01/19/15 13:51	01/30/15 23:17	2
Uranium	**2.0**		1.0	0.23	ug/L		01/19/15 13:51	01/30/15 23:17	2
Zinc	**10.6**		10.0	8.3	ug/L		01/19/15 13:51	01/30/15 23:17	2

Client Sample ID: B300P1 — **Lab Sample ID: 160-10078-21**
Date Collected: 01/09/15 09:18 — **Matrix: Water**
Date Received: 01/10/15 09:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**201**		30.0	12.9	ug/L		01/19/15 13:51	01/30/15 23:22	2
Antimony	1.7	U	5.0	1.7	ug/L		01/19/15 13:51	01/30/15 23:22	2
Arsenic	**6.5**	**B**	10.0	1.2	ug/L		01/19/15 13:51	01/30/15 23:22	2
Barium	**33.8**		2.0	0.22	ug/L		01/19/15 13:51	01/30/15 23:22	2
Beryllium	0.35	U	0.50	0.35	ug/L		01/19/15 13:51	01/30/15 23:22	2
Cadmium	0.10	U	0.50	0.10	ug/L		01/19/15 13:51	01/30/15 23:22	2
Chromium	**1.1**	**B**	10.0	1.0	ug/L		01/19/15 13:51	01/30/15 23:22	2
Cobalt	0.22	U	2.0	0.22	ug/L		01/19/15 13:51	01/30/15 23:22	2
Copper	0.45	U	1.0	0.45	ug/L		01/19/15 13:51	01/30/15 23:22	2
Lead	0.17	U	3.0	0.17	ug/L		01/19/15 13:51	01/30/15 23:22	2
Manganese	**40.2**		2.0	0.25	ug/L		01/19/15 13:51	01/30/15 23:22	2
Molybdenum	**4.6**	**B**	5.0	1.0	ug/L		01/19/15 13:51	01/30/15 23:22	2
Nickel	0.40	U	5.0	0.40	ug/L		01/19/15 13:51	01/30/15 23:22	2
Selenium	**4.8**	**B**	5.0	1.6	ug/L		01/19/15 13:51	01/30/15 23:22	2
Silver	0.82	U	2.0	0.82	ug/L		01/19/15 13:51	01/30/15 23:22	2
Strontium	**307**		5.0	0.060	ug/L		01/19/15 13:51	01/30/15 23:22	2
Thallium	0.55	U	2.0	0.55	ug/L		01/19/15 13:51	01/30/15 23:22	2
Thorium	0.55	U	2.0	0.55	ug/L		01/19/15 13:51	01/30/15 23:22	2
Tin	1.1	U	2.0	1.1	ug/L		01/19/15 13:51	01/30/15 23:22	2
Uranium	**2.8**		1.0	0.23	ug/L		01/19/15 13:51	01/30/15 23:22	2
Zinc	8.3	U	10.0	8.3	ug/L		01/19/15 13:51	01/30/15 23:22	2

Method: 6020A - Metals (ICP/MS) - Dissolved

Client Sample ID: B300R0 — **Lab Sample ID: 160-10078-11**
Date Collected: 01/09/15 10:16 — **Matrix: Water**
Date Received: 01/10/15 09:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	12.9	U	30.0	12.9	ug/L		01/19/15 13:51	01/30/15 23:13	2
Antimony	1.7	U	5.0	1.7	ug/L		01/19/15 13:51	01/30/15 23:13	2

Client: CH2M Hill Plateau Remediation Company
Project/Site: S,W,I,A ,X SAFS- GROUNDWATER

TestAmerica Job ID: 160-10061-1
SDG: SL1748

Method: 6020A - Metals (ICP/MS) - Dissolved (Continued)

Client Sample ID: B300R0 — **Lab Sample ID: 160-10078-11**
Date Collected: 01/09/15 10:16 — **Matrix: Water**
Date Received: 01/10/15 09:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**9.6**	**B**	10.0	1.2	ug/L		01/19/15 13:51	01/30/15 23:13	2
Barium	**34.3**		2.0	0.22	ug/L		01/19/15 13:51	01/30/15 23:13	2
Beryllium	0.35	U	0.50	0.35	ug/L		01/19/15 13:51	01/30/15 23:13	2
Cadmium	0.10	U	0.50	0.10	ug/L		01/19/15 13:51	01/30/15 23:13	2
Chromium	1.0	U	10.0	1.0	ug/L		01/19/15 13:51	01/30/15 23:13	2
Cobalt	**0.33**	**B**	2.0	0.22	ug/L		01/19/15 13:51	01/30/15 23:13	2
Copper	0.45	U	1.0	0.45	ug/L		01/19/15 13:51	01/30/15 23:13	2
Lead	**0.17**	**B**	3.0	0.17	ug/L		01/19/15 13:51	01/30/15 23:13	2
Manganese	**92.4**		2.0	0.25	ug/L		01/19/15 13:51	01/30/15 23:13	2
Molybdenum	**4.9**	**B**	5.0	1.0	ug/L		01/19/15 13:51	01/30/15 23:13	2
Nickel	**0.49**	**B**	5.0	0.40	ug/L		01/19/15 13:51	01/30/15 23:13	2
Selenium	**1.6**	**B**	5.0	1.6	ug/L		01/19/15 13:51	01/30/15 23:13	2
Silver	0.82	U	2.0	0.82	ug/L		01/19/15 13:51	01/30/15 23:13	2
Strontium	**243**		5.0	0.060	ug/L		01/19/15 13:51	01/30/15 23:13	2
Thallium	0.55	U	2.0	0.55	ug/L		01/19/15 13:51	01/30/15 23:13	2
Thorium	0.55	U	2.0	0.55	ug/L		01/19/15 13:51	01/30/15 23:13	2
Tin	**1.3**	**B**	2.0	1.1	ug/L		01/19/15 13:51	01/30/15 23:13	2
Uranium	**2.0**		1.0	0.23	ug/L		01/19/15 13:51	01/30/15 23:13	2
Zinc	**9.7**	**B**	10.0	8.3	ug/L		01/19/15 13:51	01/30/15 23:13	2

Client Sample ID: B300P2 — **Lab Sample ID: 160-10078-22**
Date Collected: 01/09/15 09:18 — **Matrix: Water**
Date Received: 01/10/15 09:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	12.9	U	30.0	12.9	ug/L		01/19/15 13:51	01/30/15 23:26	2
Antimony	1.7	U	5.0	1.7	ug/L		01/19/15 13:51	01/30/15 23:26	2
Arsenic	**5.8**	**B**	10.0	1.2	ug/L		01/19/15 13:51	01/30/15 23:26	2
Barium	**34.6**		2.0	0.22	ug/L		01/19/15 13:51	01/30/15 23:26	2
Beryllium	0.35	U	0.50	0.35	ug/L		01/19/15 13:51	01/30/15 23:26	2
Cadmium	0.10	U	0.50	0.10	ug/L		01/19/15 13:51	01/30/15 23:26	2
Chromium	1.0	U	10.0	1.0	ug/L		01/19/15 13:51	01/30/15 23:26	2
Cobalt	**0.26**	**B**	2.0	0.22	ug/L		01/19/15 13:51	01/30/15 23:26	2
Copper	0.45	U	1.0	0.45	ug/L		01/19/15 13:51	01/30/15 23:26	2
Lead	0.17	U	3.0	0.17	ug/L		01/19/15 13:51	01/30/15 23:26	2
Manganese	**37.3**		2.0	0.25	ug/L		01/19/15 13:51	01/30/15 23:26	2
Molybdenum	**4.9**	**B**	5.0	1.0	ug/L		01/19/15 13:51	01/30/15 23:26	2
Nickel	0.40	U	5.0	0.40	ug/L		01/19/15 13:51	01/30/15 23:26	2
Selenium	**4.6**	**B**	5.0	1.6	ug/L		01/19/15 13:51	01/31/15 13:18	2
Silver	0.82	U	2.0	0.82	ug/L		01/19/15 13:51	01/30/15 23:26	2
Strontium	**307**		5.0	0.060	ug/L		01/19/15 13:51	01/30/15 23:26	2
Thallium	0.55	U	2.0	0.55	ug/L		01/19/15 13:51	01/30/15 23:26	2
Thorium	0.55	U	2.0	0.55	ug/L		01/19/15 13:51	01/30/15 23:26	2
Tin	1.1	U	2.0	1.1	ug/L		01/19/15 13:51	01/30/15 23:26	2
Uranium	**2.9**		1.0	0.23	ug/L		01/19/15 13:51	01/30/15 23:26	2
Zinc	8.3	U	10.0	8.3	ug/L		01/19/15 13:51	01/30/15 23:26	2

Client Sample Results

Client: CH2M Hill Plateau Remediation Company
Project/Site: S,W,I,A ,X SAFS- GROUNDWATER

TestAmerica Job ID: 160-10061-1
SDG: SL1748

General Chemistry

Client Sample ID: B2YWP9 — **Lab Sample ID: 160-10061-3**
Date Collected: 01/08/15 10:54 — **Matrix: Water**
Date Received: 01/09/15 09:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Halogens, Total Organic	4.5	B	5.0	1.8	ug/L		01/15/15 13:00	01/16/15 17:14	1
Total Organic Carbon	0.35	U	1.0	0.35	mg/L			01/30/15 03:27	1

Client Sample ID: B2YVV8 — **Lab Sample ID: 160-10061-4**
Date Collected: 01/08/15 10:54 — **Matrix: Water**
Date Received: 01/09/15 09:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	132		5.0	0.54	mg/L			01/12/15 09:35	1
Bicarbonate Alkalinity	132		5.0	0.54	mg/L			01/12/15 09:35	1
Carbonate Alkalinity	0.54	U	5.0	0.54	mg/L			01/12/15 09:35	1
Hydroxide Alkalinity	0.54	U	5.0	0.54	mg/L			01/12/15 09:35	1
Halogens, Total Organic	4.8	B	5.0	1.8	ug/L		01/15/15 15:00	01/16/15 17:59	1
Total Organic Carbon	0.35	U	1.0	0.35	mg/L			01/30/15 04:15	1

Client Sample ID: B2YWR1 — **Lab Sample ID: 160-10061-5**
Date Collected: 01/08/15 10:54 — **Matrix: Water**
Date Received: 01/09/15 09:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Halogens, Total Organic	5.2		5.0	1.8	ug/L		01/15/15 15:00	01/16/15 18:27	1
Total Organic Carbon	0.35	U	1.0	0.35	mg/L			01/30/15 05:06	1

Client Sample ID: B2YWR0 — **Lab Sample ID: 160-10061-6**
Date Collected: 01/08/15 10:54 — **Matrix: Water**
Date Received: 01/09/15 09:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Halogens, Total Organic	5.0		5.0	1.8	ug/L		01/16/15 11:00	01/16/15 19:02	1
Total Organic Carbon	0.35	U	1.0	0.35	mg/L			01/30/15 05:22	1

Client Sample ID: B2YVW6 — **Lab Sample ID: 160-10061-7**
Date Collected: 01/07/15 13:25 — **Matrix: Water**
Date Received: 01/09/15 09:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	136		5.0	0.54	mg/L			01/12/15 09:35	1
Bicarbonate Alkalinity	136		5.0	0.54	mg/L			01/12/15 09:35	1
Carbonate Alkalinity	0.54	U	5.0	0.54	mg/L			01/12/15 09:35	1
Hydroxide Alkalinity	0.54	U	5.0	0.54	mg/L			01/12/15 09:35	1
Halogens, Total Organic	5.5		5.0	1.8	ug/L		01/16/15 12:00	01/16/15 20:01	1
Total Organic Carbon	0.35	U	1.0	0.35	mg/L			01/30/15 05:39	1

Client Sample ID: B2YWT3 — **Lab Sample ID: 160-10078-1**
Date Collected: 01/09/15 11:55 — **Matrix: Water**
Date Received: 01/10/15 09:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Halogens, Total Organic	3.5	B	5.0	1.8	ug/L		01/22/15 12:00	01/23/15 12:41	1
Total Organic Carbon	0.35	U	1.0	0.35	mg/L			02/11/15 20:03	1

Client Sample ID: B2YWT1 — **Lab Sample ID: 160-10078-2**
Date Collected: 01/09/15 11:55 — **Matrix: Water**
Date Received: 01/10/15 09:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Halogens, Total Organic	4.2	B	5.0	1.8	ug/L		01/22/15 13:00	01/23/15 14:35	1

General Chemistry (Continued)

Client Sample ID: B2YWT1 — **Lab Sample ID: 160-10078-2**
Date Collected: 01/09/15 11:55 — **Matrix: Water**
Date Received: 01/10/15 09:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	0.35	U	1.0	0.35	mg/L			02/11/15 20:49	1

Client Sample ID: B2YW10 — **Lab Sample ID: 160-10078-3**
Date Collected: 01/09/15 11:55 — **Matrix: Water**
Date Received: 01/10/15 09:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**94.0**		5.0	0.54	mg/L			01/14/15 09:41	1
Bicarbonate Alkalinity	**94.0**		5.0	0.54	mg/L			01/14/15 09:41	1
Carbonate Alkalinity	0.54	U	5.0	0.54	mg/L			01/14/15 09:41	1
Hydroxide Alkalinity	0.54	U	5.0	0.54	mg/L			01/14/15 09:41	1
Halogens, Total Organic	**4.3**	**B**	5.0	1.8	ug/L		01/22/15 14:00	01/23/15 15:08	1
Total Organic Carbon	0.35	U	1.0	0.35	mg/L			02/11/15 21:01	1

Client Sample ID: B2YWT2 — **Lab Sample ID: 160-10078-4**
Date Collected: 01/09/15 11:55 — **Matrix: Water**
Date Received: 01/10/15 09:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Halogens, Total Organic	**3.9**	**B**	5.0	1.8	ug/L		01/22/15 14:00	01/23/15 15:39	1
Total Organic Carbon	0.35	U	1.0	0.35	mg/L			02/11/15 21:22	1

Client Sample ID: B2YWT6 — **Lab Sample ID: 160-10078-5**
Date Collected: 01/09/15 10:16 — **Matrix: Water**
Date Received: 01/10/15 09:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Halogens, Total Organic	**1.8**	**B**	5.0	1.8	ug/L		01/22/15 15:00	01/23/15 16:10	1
Total Organic Carbon	0.35	U	1.0	0.35	mg/L			02/11/15 21:43	1

Client Sample ID: B2YWT4 — **Lab Sample ID: 160-10078-6**
Date Collected: 01/09/15 10:16 — **Matrix: Water**
Date Received: 01/10/15 09:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Halogens, Total Organic	**2.3**	**B**	5.0	1.8	ug/L		01/22/15 15:00	01/23/15 16:38	1
Total Organic Carbon	0.35	U	1.0	0.35	mg/L			02/11/15 21:54	1

Client Sample ID: B2YWT5 — **Lab Sample ID: 160-10078-7**
Date Collected: 01/09/15 10:16 — **Matrix: Water**
Date Received: 01/10/15 09:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Halogens, Total Organic	**2.0**	**B**	5.0	1.8	ug/L		01/22/15 16:00	01/23/15 17:25	1
Total Organic Carbon	0.35	U	1.0	0.35	mg/L			02/11/15 22:50	1

Client Sample ID: B2YW13 — **Lab Sample ID: 160-10078-8**
Date Collected: 01/09/15 10:16 — **Matrix: Water**
Date Received: 01/10/15 09:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**82.0**		5.0	0.54	mg/L			01/14/15 09:41	1
Bicarbonate Alkalinity	**82.0**		5.0	0.54	mg/L			01/14/15 09:41	1
Carbonate Alkalinity	0.54	U	5.0	0.54	mg/L			01/14/15 09:41	1
Hydroxide Alkalinity	0.54	U	5.0	0.54	mg/L			01/14/15 09:41	1
Halogens, Total Organic	**2.4**	**B**	5.0	1.8	ug/L		01/22/15 16:00	01/23/15 17:54	1
Total Organic Carbon	0.35	U	1.0	0.35	mg/L			02/11/15 23:07	1

General Chemistry

Client Sample ID: B2YWF7 — **Lab Sample ID: 160-10078-10**
Date Collected: 01/09/15 10:25 — **Matrix: Water**
Date Received: 01/10/15 09:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	88.0		5.0	0.54	mg/L			01/14/15 09:41	1

Client Sample ID: B2YWV2 — **Lab Sample ID: 160-10078-13**
Date Collected: 01/09/15 08:15 — **Matrix: Water**
Date Received: 01/10/15 09:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Halogens, Total Organic	2.8	B	5.0	1.8	ug/L		01/23/15 12:00	01/23/15 18:23	1
Total Organic Carbon	0.35	U	1.0	0.35	mg/L			02/11/15 23:25	1

Client Sample ID: B2YWV1 — **Lab Sample ID: 160-10078-14**
Date Collected: 01/09/15 08:15 — **Matrix: Water**
Date Received: 01/10/15 09:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Halogens, Total Organic	4.0	B	5.0	1.8	ug/L		01/23/15 12:00	01/23/15 18:53	1
Total Organic Carbon	0.35	U	1.0	0.35	mg/L			02/11/15 23:42	1

Client Sample ID: B2YWV0 — **Lab Sample ID: 160-10078-15**
Date Collected: 01/09/15 08:15 — **Matrix: Water**
Date Received: 01/10/15 09:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Halogens, Total Organic	4.9	B	5.0	1.8	ug/L		01/23/15 13:00	01/23/15 19:26	1
Total Organic Carbon	0.35	U	1.0	0.35	mg/L			02/12/15 00:04	1

Client Sample ID: B2YW33 — **Lab Sample ID: 160-10078-16**
Date Collected: 01/09/15 08:15 — **Matrix: Water**
Date Received: 01/10/15 09:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	123		5.0	0.54	mg/L			01/14/15 09:41	1
Bicarbonate Alkalinity	123		5.0	0.54	mg/L			01/14/15 09:41	1
Carbonate Alkalinity	0.54	U	5.0	0.54	mg/L			01/14/15 09:41	1
Hydroxide Alkalinity	0.54	U	5.0	0.54	mg/L			01/14/15 09:41	1
Halogens, Total Organic	4.1	B	5.0	1.8	ug/L		01/23/15 13:00	01/23/15 20:14	1
Total Organic Carbon	0.35	U	1.0	0.35	mg/L			02/12/15 00:40	1

Client Sample ID: B2YWR9 — **Lab Sample ID: 160-10078-17**
Date Collected: 01/09/15 09:18 — **Matrix: Water**
Date Received: 01/10/15 09:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Halogens, Total Organic	4.0	B	5.0	1.8	ug/L		01/23/15 14:00	01/23/15 21:22	1
Total Organic Carbon	0.35	U	1.0	0.35	mg/L			02/12/15 00:51	1

Client Sample ID: B2YWR8 — **Lab Sample ID: 160-10078-18**
Date Collected: 01/09/15 09:18 — **Matrix: Water**
Date Received: 01/10/15 09:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Halogens, Total Organic	2.7	B	5.0	1.8	ug/L		01/23/15 15:00	01/23/15 21:52	1
Total Organic Carbon	0.35	U	1.0	0.35	mg/L			02/12/15 01:10	1

General Chemistry

Client Sample ID: B2YW07 — **Lab Sample ID: 160-10078-19**
Date Collected: 01/09/15 09:18 — **Matrix: Water**
Date Received: 01/10/15 09:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**87.0**		5.0	0.54	mg/L			01/14/15 09:41	1
Bicarbonate Alkalinity	**87.0**		5.0	0.54	mg/L			01/14/15 09:41	1
Carbonate Alkalinity	0.54	U	5.0	0.54	mg/L			01/14/15 09:41	1
Hydroxide Alkalinity	0.54	U	5.0	0.54	mg/L			01/14/15 09:41	1
Halogens, Total Organic	**2.4**	**B**	5.0	1.8	ug/L		01/23/15 15:00	01/23/15 22:21	1
Total Organic Carbon	0.35	U	1.0	0.35	mg/L			02/12/15 01:27	1

Client Sample ID: B2YWT0 — **Lab Sample ID: 160-10078-20**
Date Collected: 01/09/15 09:18 — **Matrix: Water**
Date Received: 01/10/15 09:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Halogens, Total Organic	1.8	U	5.0	1.8	ug/L		01/23/15 16:00	01/23/15 23:05	1
Total Organic Carbon	0.35	U	1.0	0.35	mg/L			02/12/15 02:31	1

Client Sample ID: B2YVY3 — **Lab Sample ID: 160-10078-23**
Date Collected: 01/08/15 13:24 — **Matrix: Water**
Date Received: 01/10/15 09:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**76.0**		5.0	0.54	mg/L			01/14/15 09:41	1
Bicarbonate Alkalinity	**76.0**		5.0	0.54	mg/L			01/14/15 09:41	1
Carbonate Alkalinity	0.54	U	5.0	0.54	mg/L			01/14/15 09:41	1
Hydroxide Alkalinity	0.54	U	5.0	0.54	mg/L			01/14/15 09:41	1
Halogens, Total Organic	**4.8**	**B**	5.0	1.8	ug/L		01/23/15 16:00	01/23/15 23:34	1
Total Organic Carbon	0.35	U	1.0	0.35	mg/L			02/12/15 02:50	1

Client Sample ID: B2YVY4 — **Lab Sample ID: 160-10078-24**
Date Collected: 01/08/15 13:24 — **Matrix: Water**
Date Received: 01/10/15 09:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**77.0**		5.0	0.54	mg/L			01/14/15 09:41	1
Bicarbonate Alkalinity	**77.0**		5.0	0.54	mg/L			01/14/15 09:41	1
Carbonate Alkalinity	0.54	U	5.0	0.54	mg/L			01/14/15 09:41	1
Hydroxide Alkalinity	0.54	U	5.0	0.54	mg/L			01/14/15 09:41	1
Halogens, Total Organic	1.8	U	5.0	1.8	ug/L		02/02/15 13:00	02/05/15 14:28	1
Total Organic Carbon	0.35	U	1.0	0.35	mg/L			02/12/15 03:08	1

Client Sample ID: B2YW03 — **Lab Sample ID: 160-10078-25**
Date Collected: 01/08/15 12:42 — **Matrix: Water**
Date Received: 01/10/15 09:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**132**		5.0	0.54	mg/L			01/14/15 09:41	1
Bicarbonate Alkalinity	**132**		5.0	0.54	mg/L			01/14/15 09:41	1
Carbonate Alkalinity	0.54	U	5.0	0.54	mg/L			01/14/15 09:41	1
Hydroxide Alkalinity	0.54	U	5.0	0.54	mg/L			01/14/15 09:41	1
Halogens, Total Organic	**2.1**	**B**	5.0	1.8	ug/L		02/02/15 13:00	02/05/15 15:17	1
Total Organic Carbon	0.35	U	1.0	0.35	mg/L			02/12/15 03:29	1

Method: 8260C - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 160-168034/7
Matrix: Water
Analysis Batch: 168034

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.070	U	1.0	0.070	ug/L			01/13/15 08:29	1
1,1,2-Trichloroethane	0.15	U	1.0	0.15	ug/L			01/13/15 08:29	1
1,1-Dichloroethane	0.070	U	1.0	0.070	ug/L			01/13/15 08:29	1
1,1-Dichloroethene	0.080	U	1.0	0.080	ug/L			01/13/15 08:29	1
1,2-Dichloroethane	0.10	U	1.0	0.10	ug/L			01/13/15 08:29	1
2-Butanone (MEK)	0.52	U	5.0	0.52	ug/L			01/13/15 08:29	1
4-Methyl-2-pentanone (MIBK)	0.12	U	5.0	0.12	ug/L			01/13/15 08:29	1
Acetone	0.34	U	2.0	0.34	ug/L			01/13/15 08:29	1
Benzene	0.060	U	1.0	0.060	ug/L			01/13/15 08:29	1
Carbon disulfide	0.050	U	1.0	0.050	ug/L			01/13/15 08:29	1
Carbon tetrachloride	0.13	U	1.0	0.13	ug/L			01/13/15 08:29	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			01/13/15 08:29	1
Chloroform	0.10	U	1.0	0.10	ug/L			01/13/15 08:29	1
Ethylbenzene	0.090	U	1.0	0.090	ug/L			01/13/15 08:29	1
Methylene Chloride	0.27	U	1.0	0.27	ug/L			01/13/15 08:29	1
Tetrachloroethene	0.18	U	1.0	0.18	ug/L			01/13/15 08:29	1
Toluene	0.070	U	1.0	0.070	ug/L			01/13/15 08:29	1
Trichloroethene	0.25	U	1.0	0.25	ug/L			01/13/15 08:29	1
Vinyl chloride	0.080	U	2.0	0.080	ug/L			01/13/15 08:29	1
Xylenes, Total	0.20	U	3.0	0.20	ug/L			01/13/15 08:29	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*01/13/15 08:29*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*75 - 129*		*01/13/15 08:29*	*1*
4-Bromofluorobenzene (Surr)	*121*		*81 - 130*		*01/13/15 08:29*	*1*
Dibromofluoromethane (Surr)	*107*		*81 - 124*		*01/13/15 08:29*	*1*
Toluene-d8 (Surr)	*118*		*87 - 128*		*01/13/15 08:29*	*1*

Lab Sample ID: LCS 160-168034/4
Matrix: Water
Analysis Batch: 168034

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	10.0	10.3		ug/L		103	85 - 116
1,1,2-Trichloroethane	10.0	10.7		ug/L		107	80 - 120
1,1-Dichloroethane	10.0	9.94		ug/L		99	80 - 120
1,1-Dichloroethene	10.0	10.2		ug/L		102	80 - 120
1,2-Dichloroethane	10.0	9.93		ug/L		99	80 - 115
2-Butanone (MEK)	10.0	11.1		ug/L		111	67 - 127
4-Methyl-2-pentanone (MIBK)	10.0	10.9		ug/L		109	75 - 126
Acetone	10.0	9.43		ug/L		94	69 - 129
Benzene	10.0	9.90		ug/L		99	80 - 120
Carbon disulfide	10.0	9.79		ug/L		98	80 - 121
Carbon tetrachloride	10.0	10.1		ug/L		101	83 - 125
Chlorobenzene	10.0	9.93		ug/L		99	80 - 120

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 160-168034/4 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 168034

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloroform	10.0	9.93		ug/L		99	80 - 120
Ethylbenzene	10.0	10.6		ug/L		106	80 - 120
Methylene Chloride	10.0	9.53		ug/L		95	80 - 120
Tetrachloroethene	10.0	10.5		ug/L		105	83 - 123
Toluene	10.0	11.1		ug/L		111	80 - 120
Trichloroethene	10.0	9.98		ug/L		100	80 - 120
Vinyl chloride	10.0	9.72		ug/L		97	77 - 122
Xylenes, Total	20.0	20.9		ug/L		105	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*75 - 129*
4-Bromofluorobenzene (Surr)	*109*		*81 - 130*
Dibromofluoromethane (Surr)	*104*		*81 - 124*
Toluene-d8 (Surr)	*115*		*87 - 128*

Lab Sample ID: LCSD 160-168034/5 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 168034

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	10.0	10.3		ug/L		103	85 - 116	0	20
1,1,2-Trichloroethane	10.0	10.5		ug/L		105	80 - 120	2	20
1,1-Dichloroethane	10.0	9.82		ug/L		98	80 - 120	1	20
1,1-Dichloroethene	10.0	10.2		ug/L		102	80 - 120	0	20
1,2-Dichloroethane	10.0	9.95		ug/L		99	80 - 115	0	20
2-Butanone (MEK)	10.0	10.2		ug/L		102	67 - 127	8	20
4-Methyl-2-pentanone (MIBK)	10.0	10.7		ug/L		107	75 - 126	2	20
Acetone	10.0	9.41		ug/L		94	69 - 129	0	20
Benzene	10.0	9.69		ug/L		97	80 - 120	2	20
Carbon disulfide	10.0	9.79		ug/L		98	80 - 121	0	20
Carbon tetrachloride	10.0	10.1		ug/L		101	83 - 125	0	20
Chlorobenzene	10.0	9.86		ug/L		99	80 - 120	1	20
Chloroform	10.0	9.95		ug/L		100	80 - 120	0	20
Ethylbenzene	10.0	10.7		ug/L		107	80 - 120	1	20
Methylene Chloride	10.0	9.49		ug/L		95	80 - 120	0	20
Tetrachloroethene	10.0	10.7		ug/L		107	83 - 123	2	20
Toluene	10.0	11.1		ug/L		111	80 - 120	1	20
Trichloroethene	10.0	9.77		ug/L		98	80 - 120	2	20
Vinyl chloride	10.0	9.53		ug/L		95	77 - 122	2	20
Xylenes, Total	20.0	21.5		ug/L		108	80 - 120	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*75 - 129*
4-Bromofluorobenzene (Surr)	*108*		*81 - 130*
Dibromofluoromethane (Surr)	*101*		*81 - 124*
Toluene-d8 (Surr)	*117*		*87 - 128*

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 160-10042-B-2 MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 168034

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	0.070	U	10.0	10.9		ug/L		109	82 - 124
1,1,2-Trichloroethane	0.15	U	10.0	10.7		ug/L		107	80 - 120
1,1-Dichloroethane	0.070	U	10.0	10.4		ug/L		104	80 - 122
1,1-Dichloroethene	0.080	U	10.0	10.8		ug/L		108	80 - 120
1,2-Dichloroethane	0.10	U	10.0	10.3		ug/L		103	80 - 120
2-Butanone (MEK)	0.52	U	10.0	10.3		ug/L		103	53 - 145
4-Methyl-2-pentanone (MIBK)	0.12	U	10.0	10.5		ug/L		105	70 - 131
Acetone	0.34	U	10.0	9.79		ug/L		98	50 - 137
Benzene	0.060	U	10.0	10.4		ug/L		104	80 - 120
Carbon disulfide	0.050	U	10.0	10.4		ug/L		104	80 - 121
Carbon tetrachloride	0.13	U	10.0	10.7		ug/L		107	77 - 131
Chlorobenzene	0.15	U	10.0	10.4		ug/L		104	80 - 120
Chloroform	0.88	J	10.0	11.4		ug/L		105	80 - 120
Ethylbenzene	0.090	U	10.0	11.1		ug/L		111	84 - 125
Methylene Chloride	0.27	U	10.0	9.99		ug/L		100	80 - 120
Tetrachloroethene	0.18	U	10.0	11.1		ug/L		111	80 - 126
Toluene	0.070	U	10.0	11.5		ug/L		115	85 - 123
Trichloroethene	0.25	U	10.0	10.4		ug/L		104	81 - 125
Vinyl chloride	0.080	U	10.0	10.2		ug/L		102	70 - 129
Xylenes, Total	0.20	U	20.0	22.3		ug/L		112	80 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*75 - 129*
4-Bromofluorobenzene (Surr)	*116*		*81 - 130*
Dibromofluoromethane (Surr)	*107*		*81 - 124*
Toluene-d8 (Surr)	*120*		*87 - 128*

Lab Sample ID: 160-10042-C-2 MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 168034

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	0.070	U	10.0	10.6		ug/L		106	82 - 124	3	20
1,1,2-Trichloroethane	0.15	U	10.0	10.7		ug/L		107	80 - 120	0	20
1,1-Dichloroethane	0.070	U	10.0	10.4		ug/L		104	80 - 122	0	20
1,1-Dichloroethene	0.080	U	10.0	10.8		ug/L		108	80 - 120	1	20
1,2-Dichloroethane	0.10	U	10.0	10.2		ug/L		102	80 - 120	1	20
2-Butanone (MEK)	0.52	U	10.0	10.7		ug/L		107	53 - 145	4	20
4-Methyl-2-pentanone (MIBK)	0.12	U	10.0	11.1		ug/L		111	70 - 131	5	20
Acetone	0.34	U	10.0	8.84		ug/L		88	50 - 137	10	20
Benzene	0.060	U	10.0	10.3		ug/L		103	80 - 120	1	20
Carbon disulfide	0.050	U	10.0	10.3		ug/L		103	80 - 121	1	20
Carbon tetrachloride	0.13	U	10.0	10.6		ug/L		106	77 - 131	1	20
Chlorobenzene	0.15	U	10.0	10.1		ug/L		101	80 - 120	3	20
Chloroform	0.88	J	10.0	11.3		ug/L		105	80 - 120	1	20
Ethylbenzene	0.090	U	10.0	11.0		ug/L		110	84 - 125	1	20
Methylene Chloride	0.27	U	10.0	9.97		ug/L		100	80 - 120	0	20
Tetrachloroethene	0.18	U	10.0	10.6		ug/L		106	80 - 126	4	20

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 160-10042-C-2 MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 168034

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Toluene	0.070	U	10.0	11.1		ug/L		111	85 - 123	3	20
Trichloroethene	0.25	U	10.0	10.2		ug/L		102	81 - 125	2	20
Vinyl chloride	0.080	U	10.0	10.4		ug/L		104	70 - 129	1	20
Xylenes, Total	0.20	U	20.0	21.7		ug/L		109	80 - 120	3	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*106*		*75 - 129*
4-Bromofluorobenzene (Surr)	*110*		*81 - 130*
Dibromofluoromethane (Surr)	*106*		*81 - 124*
Toluene-d8 (Surr)	*116*		*87 - 128*

Lab Sample ID: MB 160-168243/9 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 168243

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.070	U	1.0	0.070	ug/L			01/14/15 08:51	1
1,1,2-Trichloroethane	0.15	U	1.0	0.15	ug/L			01/14/15 08:51	1
1,1-Dichloroethane	0.070	U	1.0	0.070	ug/L			01/14/15 08:51	1
1,1-Dichloroethene	0.080	U	1.0	0.080	ug/L			01/14/15 08:51	1
1,2-Dichloroethane	0.10	U	1.0	0.10	ug/L			01/14/15 08:51	1
2-Butanone (MEK)	0.52	U	5.0	0.52	ug/L			01/14/15 08:51	1
4-Methyl-2-pentanone (MIBK)	0.12	U	5.0	0.12	ug/L			01/14/15 08:51	1
Acetone	0.34	U	2.0	0.34	ug/L			01/14/15 08:51	1
Benzene	0.060	U	1.0	0.060	ug/L			01/14/15 08:51	1
Carbon disulfide	0.050	U	1.0	0.050	ug/L			01/14/15 08:51	1
Carbon tetrachloride	0.13	U	1.0	0.13	ug/L			01/14/15 08:51	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			01/14/15 08:51	1
Chloroform	0.10	U	1.0	0.10	ug/L			01/14/15 08:51	1
Ethylbenzene	0.090	U	1.0	0.090	ug/L			01/14/15 08:51	1
Methylene Chloride	0.27	U	1.0	0.27	ug/L			01/14/15 08:51	1
Tetrachloroethene	0.18	U	1.0	0.18	ug/L			01/14/15 08:51	1
Toluene	0.070	U	1.0	0.070	ug/L			01/14/15 08:51	1
Trichloroethene	0.25	U	1.0	0.25	ug/L			01/14/15 08:51	1
Vinyl chloride	0.080	U	2.0	0.080	ug/L			01/14/15 08:51	1
Xylenes, Total	0.20	U	3.0	0.20	ug/L			01/14/15 08:51	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*01/14/15 08:51*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*75 - 129*		*01/14/15 08:51*	*1*
4-Bromofluorobenzene (Surr)	*103*		*81 - 130*		*01/14/15 08:51*	*1*
Dibromofluoromethane (Surr)	*104*		*81 - 124*		*01/14/15 08:51*	*1*
Toluene-d8 (Surr)	*112*		*87 - 128*		*01/14/15 08:51*	*1*

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 160-168243/6 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 168243

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	10.0	11.1		ug/L		111	85 - 116
1,1,2-Trichloroethane	10.0	9.94		ug/L		99	80 - 120
1,1-Dichloroethane	10.0	10.4		ug/L		104	80 - 120
1,1-Dichloroethene	10.0	10.7		ug/L		107	80 - 120
1,2-Dichloroethane	10.0	10.1		ug/L		101	80 - 115
2-Butanone (MEK)	10.0	9.95		ug/L		99	67 - 127
4-Methyl-2-pentanone (MIBK)	10.0	11.1		ug/L		111	75 - 126
Acetone	10.0	9.96		ug/L		100	69 - 129
Benzene	10.0	10.7		ug/L		107	80 - 120
Carbon disulfide	10.0	10.9		ug/L		109	80 - 121
Carbon tetrachloride	10.0	11.2		ug/L		112	83 - 125
Chlorobenzene	10.0	10.8		ug/L		108	80 - 120
Chloroform	10.0	10.3		ug/L		103	80 - 120
Ethylbenzene	10.0	11.2		ug/L		112	80 - 120
Methylene Chloride	10.0	9.58		ug/L		96	80 - 120
Tetrachloroethene	10.0	10.9		ug/L		109	83 - 123
Toluene	10.0	10.7		ug/L		107	80 - 120
Trichloroethene	10.0	9.89		ug/L		99	80 - 120
Vinyl chloride	10.0	10.3		ug/L		103	77 - 122
Xylenes, Total	20.0	21.9		ug/L		110	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*75 - 129*
4-Bromofluorobenzene (Surr)	*101*		*81 - 130*
Dibromofluoromethane (Surr)	*102*		*81 - 124*
Toluene-d8 (Surr)	*111*		*87 - 128*

Lab Sample ID: LCSD 160-168243/7 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 168243

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	10.0	11.4		ug/L		114	85 - 116	3	20
1,1,2-Trichloroethane	10.0	9.99		ug/L		100	80 - 120	1	20
1,1-Dichloroethane	10.0	11.0		ug/L		110	80 - 120	6	20
1,1-Dichloroethene	10.0	10.9		ug/L		109	80 - 120	2	20
1,2-Dichloroethane	10.0	10.2		ug/L		102	80 - 115	1	20
2-Butanone (MEK)	10.0	9.47		ug/L		95	67 - 127	5	20
4-Methyl-2-pentanone (MIBK)	10.0	11.4		ug/L		114	75 - 126	2	20
Acetone	10.0	9.89		ug/L		99	69 - 129	1	20
Benzene	10.0	10.8		ug/L		108	80 - 120	1	20
Carbon disulfide	10.0	11.3		ug/L		113	80 - 121	3	20
Carbon tetrachloride	10.0	11.3		ug/L		113	83 - 125	0	20
Chlorobenzene	10.0	10.7		ug/L		107	80 - 120	1	20
Chloroform	10.0	10.8		ug/L		108	80 - 120	5	20
Ethylbenzene	10.0	11.6		ug/L		116	80 - 120	4	20
Methylene Chloride	10.0	9.81		ug/L		98	80 - 120	2	20
Tetrachloroethene	10.0	10.8		ug/L		108	83 - 123	1	20

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 160-168243/7 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 168243

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Toluene			10.0	11.0		ug/L		110	80 - 120	3	20
Trichloroethene			10.0	10.2		ug/L		102	80 - 120	3	20
Vinyl chloride			10.0	10.2		ug/L		102	77 - 122	2	20
Xylenes, Total			20.0	22.3		ug/L		112	80 - 120	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*75 - 129*
4-Bromofluorobenzene (Surr)	*103*		*81 - 130*
Dibromofluoromethane (Surr)	*104*		*81 - 124*
Toluene-d8 (Surr)	*109*		*87 - 128*

Lab Sample ID: 160-10093-B-3 MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 168243

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,1,1-Trichloroethane	0.070	U	10.0	11.4		ug/L		114	82 - 124		
1,1,2-Trichloroethane	0.15	U	10.0	9.57		ug/L		96	80 - 120		
1,1-Dichloroethane	0.070	U	10.0	10.7		ug/L		107	80 - 122		
1,1-Dichloroethene	0.080	U	10.0	11.3		ug/L		113	80 - 120		
1,2-Dichloroethane	0.10	U	10.0	10.6		ug/L		106	80 - 120		
2-Butanone (MEK)	0.52	U	10.0	9.08		ug/L		91	53 - 145		
4-Methyl-2-pentanone (MIBK)	0.12	U	10.0	10.4		ug/L		104	70 - 131		
Acetone	0.34	U	10.0	10.9		ug/L		109	50 - 137		
Benzene	0.060	U	10.0	11.3		ug/L		113	80 - 120		
Carbon disulfide	0.050	U	10.0	11.3		ug/L		113	80 - 121		
Carbon tetrachloride	0.13	U	10.0	11.9		ug/L		119	77 - 131		
Chlorobenzene	0.15	U	10.0	10.4		ug/L		104	80 - 120		
Chloroform	0.10	U	10.0	11.2		ug/L		112	80 - 120		
Ethylbenzene	0.090	U	10.0	11.7		ug/L		117	84 - 125		
Methylene Chloride	0.27	U	10.0	10.0		ug/L		100	80 - 120		
Tetrachloroethene	0.18	U	10.0	10.8		ug/L		108	80 - 126		
Toluene	0.070	U	10.0	11.0		ug/L		110	85 - 123		
Trichloroethene	0.25	U	10.0	10.5		ug/L		105	81 - 125		
Vinyl chloride	0.080	U	10.0	10.8		ug/L		108	70 - 129		
Xylenes, Total	0.20	U	20.0	22.5		ug/L		113	80 - 120		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*75 - 129*
4-Bromofluorobenzene (Surr)	*103*		*81 - 130*
Dibromofluoromethane (Surr)	*105*		*81 - 124*
Toluene-d8 (Surr)	*110*		*87 - 128*

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 160-10093-C-3 MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 168243

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	0.070	U	10.0	11.5		ug/L		115	82 - 124	0	20
1,1,2-Trichloroethane	0.15	U	10.0	10.0		ug/L		100	80 - 120	5	20
1,1-Dichloroethane	0.070	U	10.0	10.8		ug/L		108	80 - 122	1	20
1,1-Dichloroethene	0.080	U	10.0	10.6		ug/L		106	80 - 120	6	20
1,2-Dichloroethane	0.10	U	10.0	10.2		ug/L		102	80 - 120	3	20
2-Butanone (MEK)	0.52	U	10.0	9.89		ug/L		99	53 - 145	9	20
4-Methyl-2-pentanone (MIBK)	0.12	U	10.0	10.7		ug/L		107	70 - 131	3	20
Acetone	0.34	U	10.0	11.7		ug/L		117	50 - 137	7	20
Benzene	0.060	U	10.0	11.4		ug/L		114	80 - 120	1	20
Carbon disulfide	0.050	U	10.0	11.3		ug/L		113	80 - 121	1	20
Carbon tetrachloride	0.13	U	10.0	11.7		ug/L		117	77 - 131	2	20
Chlorobenzene	0.15	U	10.0	10.9		ug/L		109	80 - 120	4	20
Chloroform	0.10	U	10.0	10.8		ug/L		108	80 - 120	4	20
Ethylbenzene	0.090	U	10.0	11.4		ug/L		114	84 - 125	2	20
Methylene Chloride	0.27	U	10.0	10.0		ug/L		100	80 - 120	0	20
Tetrachloroethene	0.18	U	10.0	10.6		ug/L		106	80 - 126	2	20
Toluene	0.070	U	10.0	11.2		ug/L		112	85 - 123	2	20
Trichloroethene	0.25	U	10.0	10.6		ug/L		106	81 - 125	1	20
Vinyl chloride	0.080	U	10.0	10.5		ug/L		105	70 - 129	3	20
Xylenes, Total	0.20	U	20.0	22.2		ug/L		111	80 - 120	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*75 - 129*
4-Bromofluorobenzene (Surr)	*103*		*81 - 130*
Dibromofluoromethane (Surr)	*107*		*81 - 124*
Toluene-d8 (Surr)	*108*		*87 - 128*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 160-167826/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 167832 — **Prep Batch: 167826**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,4,6-Tetrachlorophenol	1.0	U	50	1.0	ug/L		01/10/15 11:10	01/11/15 13:23	1
2,4,5-Trichlorophenol	1.0	U	10	1.0	ug/L		01/10/15 11:10	01/11/15 13:23	1
2,4,6-Trichlorophenol	1.0	U	10	1.0	ug/L		01/10/15 11:10	01/11/15 13:23	1
2,4-Dichlorophenol	1.0	U	10	1.0	ug/L		01/10/15 11:10	01/11/15 13:23	1
2,4-Dimethylphenol	1.0	U	10	1.0	ug/L		01/10/15 11:10	01/11/15 13:23	1
2,4-Dinitrophenol	2.0	U	50	2.0	ug/L		01/10/15 11:10	01/11/15 13:23	1
2,6-Dichlorophenol	1.0	U	10	1.0	ug/L		01/10/15 11:10	01/11/15 13:23	1
2-Chlorophenol	1.0	U	10	1.0	ug/L		01/10/15 11:10	01/11/15 13:23	1
2-Methylphenol	1.0	U	10	1.0	ug/L		01/10/15 11:10	01/11/15 13:23	1
2-Nitrophenol	1.5	U	10	1.5	ug/L		01/10/15 11:10	01/11/15 13:23	1
3 & 4 Methylphenol	2.0	U	20	2.0	ug/L		01/10/15 11:10	01/11/15 13:23	1
4,6-Dinitro-2-methylphenol	1.3	U	10	1.3	ug/L		01/10/15 11:10	01/11/15 13:23	1
4-Chloro-3-methylphenol	1.0	U	10	1.0	ug/L		01/10/15 11:10	01/11/15 13:23	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 160-167826/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 167832 — **Prep Batch: 167826**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	2.0	U	10	2.0	ug/L		01/10/15 11:10	01/11/15 13:23	1
Dinoseb	2.0	U	20	2.0	ug/L		01/10/15 11:10	01/11/15 13:23	1
Pentachlorophenol	1.3	U	10	1.3	ug/L		01/10/15 11:10	01/11/15 13:23	1
Phenol	2.0	U	10	2.0	ug/L		01/10/15 11:10	01/11/15 13:23	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*91*		*47 - 103*	*01/10/15 11:10*	*01/11/15 13:23*	*1*
2-Fluorobiphenyl (Surr)	*84*		*30 - 99*	*01/10/15 11:10*	*01/11/15 13:23*	*1*
2-Fluorophenol (Surr)	*42*		*10 - 74*	*01/10/15 11:10*	*01/11/15 13:23*	*1*
Nitrobenzene-d5 (Surr)	*85*		*31 - 105*	*01/10/15 11:10*	*01/11/15 13:23*	*1*
Phenol-d5 (Surr)	*27*		*10 - 50*	*01/10/15 11:10*	*01/11/15 13:23*	*1*
Terphenyl-d14 (Surr)	*88*		*68 - 116*	*01/10/15 11:10*	*01/11/15 13:23*	*1*

Lab Sample ID: LCS 160-167826/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 167832 — **Prep Batch: 167826**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4,5-Trichlorophenol	200	182	O	ug/L		91	60 - 86
2,4,6-Trichlorophenol	200	179	O	ug/L		89	61 - 86
2,4-Dichlorophenol	200	166	O	ug/L		83	59 - 81
2,4-Dimethylphenol	200	157		ug/L		78	48 - 96
2,4-Dinitrophenol	200	154		ug/L		77	38 - 95
2-Chlorophenol	200	150		ug/L		75	54 - 81
2-Methylphenol	200	126		ug/L		63	47 - 75
2-Nitrophenol	200	179	O	ug/L		89	59 - 88
3 & 4 Methylphenol	200	132		ug/L		66	40 - 79
4,6-Dinitro-2-methylphenol	200	185		ug/L		93	60 - 98
4-Chloro-3-methylphenol	200	162		ug/L		81	56 - 83
4-Nitrophenol	200	62.4		ug/L		31	21 - 36
Pentachlorophenol	200	169		ug/L		85	47 - 96
Phenol	200	58.5		ug/L		29	21 - 37

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*98*		*47 - 103*
2-Fluorobiphenyl (Surr)	*90*		*30 - 99*
2-Fluorophenol (Surr)	*45*		*10 - 74*
Nitrobenzene-d5 (Surr)	*90*		*31 - 105*
Phenol-d5 (Surr)	*29*		*10 - 50*
Terphenyl-d14 (Surr)	*91*		*68 - 116*

Lab Sample ID: 160-10061-4 MS — **Client Sample ID: B2YVV8**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 167832 — **Prep Batch: 167826**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4,5-Trichlorophenol	0.96	U O	194	164		ug/L		85	48 - 97
2,4,6-Trichlorophenol	0.96	U O	194	164		ug/L		84	48 - 95

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 160-10061-4 MS — **Client Sample ID: B2YVV8**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 167832 — **Prep Batch: 167826**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4-Dichlorophenol	0.96	U O	194	148		ug/L		77	48 - 92
2,4-Dimethylphenol	0.96	U	194	136		ug/L		70	44 - 92
2,4-Dinitrophenol	1.9	U	194	135		ug/L		70	40 - 96
2-Chlorophenol	0.96	U	194	133		ug/L		69	45 - 94
2-Methylphenol	0.96	U	194	105		ug/L		54	33 - 95
2-Nitrophenol	1.5	U O	194	161		ug/L		83	49 - 96
3 & 4 Methylphenol	1.9	U	194	109		ug/L		56	26 - 113
4,6-Dinitro-2-methylphenol	1.2	U	194	166		ug/L		85	55 - 109
4-Chloro-3-methylphenol	0.96	U	194	144		ug/L		74	40 - 99
4-Nitrophenol	1.9	U	194	51.9		ug/L		27	10 - 76
Pentachlorophenol	1.2	U	194	156		ug/L		80	49 - 92
Phenol	1.9	U	194	45.2		ug/L		23	10 - 70

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*93*		*47 - 103*
2-Fluorobiphenyl (Surr)	*85*		*30 - 99*
2-Fluorophenol (Surr)	*37*		*10 - 74*
Nitrobenzene-d5 (Surr)	*83*		*31 - 105*
Phenol-d5 (Surr)	*23*		*10 - 50*
Terphenyl-d14 (Surr)	*79*		*68 - 116*

Lab Sample ID: 160-10061-4 MSD — **Client Sample ID: B2YVV8**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 167832 — **Prep Batch: 167826**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,4,5-Trichlorophenol	0.96	U O	195	165		ug/L		85	48 - 97	0	20
2,4,6-Trichlorophenol	0.96	U O	195	161		ug/L		83	48 - 95	1	20
2,4-Dichlorophenol	0.96	U O	195	149		ug/L		76	48 - 92	0	20
2,4-Dimethylphenol	0.96	U	195	136		ug/L		70	44 - 92	0	20
2,4-Dinitrophenol	1.9	U	195	141		ug/L		72	40 - 96	4	20
2-Chlorophenol	0.96	U	195	133		ug/L		68	45 - 94	0	20
2-Methylphenol	0.96	U	195	107		ug/L		55	33 - 95	1	20
2-Nitrophenol	1.5	U O	195	162		ug/L		83	49 - 96	1	20
3 & 4 Methylphenol	1.9	U	195	110		ug/L		57	26 - 113	1	20
4,6-Dinitro-2-methylphenol	1.2	U	195	169		ug/L		87	55 - 109	2	20
4-Chloro-3-methylphenol	0.96	U	195	144		ug/L		74	40 - 99	0	20
4-Nitrophenol	1.9	U	195	52.2		ug/L		27	10 - 76	1	20
Pentachlorophenol	1.2	U	195	157		ug/L		80	49 - 92	1	20
Phenol	1.9	U	195	45.5		ug/L		23	10 - 70	0	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*92*		*47 - 103*
2-Fluorobiphenyl (Surr)	*84*		*30 - 99*
2-Fluorophenol (Surr)	*37*		*10 - 74*
Nitrobenzene-d5 (Surr)	*83*		*31 - 105*
Phenol-d5 (Surr)	*23*		*10 - 50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 160-10061-4 MSD — **Client Sample ID: B2YVV8**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 167832 — **Prep Batch: 167826**

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Terphenyl-d14 (Surr)	77		68 - 116

Lab Sample ID: MB 160-168914/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 170594 — **Prep Batch: 168914**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,4,6-Tetrachlorophenol	1.0	U	50	1.0	ug/L		01/16/15 15:13	01/27/15 16:18	1
2,4,5-Trichlorophenol	1.0	U	10	1.0	ug/L		01/16/15 15:13	01/27/15 16:18	1
2,4,6-Trichlorophenol	1.0	U	10	1.0	ug/L		01/16/15 15:13	01/27/15 16:18	1
2-Picoline	2.0	U	20	2.0	ug/L		01/16/15 15:13	01/27/15 16:18	1
2,4-Dichlorophenol	1.0	U	10	1.0	ug/L		01/16/15 15:13	01/27/15 16:18	1
2,4-Dimethylphenol	1.0	U	10	1.0	ug/L		01/16/15 15:13	01/27/15 16:18	1
2,4-Dinitrophenol	2.0	U	50	2.0	ug/L		01/16/15 15:13	01/27/15 16:18	1
2,6-Dichlorophenol	1.0	U	10	1.0	ug/L		01/16/15 15:13	01/27/15 16:18	1
2-Chlorophenol	1.0	U	10	1.0	ug/L		01/16/15 15:13	01/27/15 16:18	1
Tributyl phosphate	2.20	J	10	1.0	ug/L		01/16/15 15:13	01/27/15 16:18	1
2-Methylphenol	1.0	U	10	1.0	ug/L		01/16/15 15:13	01/27/15 16:18	1
2-Nitrophenol	1.5	U	10	1.5	ug/L		01/16/15 15:13	01/27/15 16:18	1
3 & 4 Methylphenol	2.0	U	20	2.0	ug/L		01/16/15 15:13	01/27/15 16:18	1
4,6-Dinitro-2-methylphenol	1.3	U	10	1.3	ug/L		01/16/15 15:13	01/27/15 16:18	1
4-Chloro-3-methylphenol	1.0	U	10	1.0	ug/L		01/16/15 15:13	01/27/15 16:18	1
4-Nitrophenol	2.0	U	10	2.0	ug/L		01/16/15 15:13	01/27/15 16:18	1
Dinoseb	2.0	U	20	2.0	ug/L		01/16/15 15:13	01/27/15 16:18	1
Pentachlorophenol	1.3	U	10	1.3	ug/L		01/16/15 15:13	01/27/15 16:18	1
Phenol	2.0	U	10	2.0	ug/L		01/16/15 15:13	01/27/15 16:18	1

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L				01/16/15 15:13	01/27/15 16:18	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	77		47 - 103	01/16/15 15:13	01/27/15 16:18	1
2-Fluorobiphenyl (Surr)	83		30 - 99	01/16/15 15:13	01/27/15 16:18	1
2-Fluorophenol (Surr)	41		10 - 74	01/16/15 15:13	01/27/15 16:18	1
Nitrobenzene-d5 (Surr)	82		31 - 105	01/16/15 15:13	01/27/15 16:18	1
Phenol-d5 (Surr)	26		10 - 50	01/16/15 15:13	01/27/15 16:18	1
Terphenyl-d14 (Surr)	80		68 - 116	01/16/15 15:13	01/27/15 16:18	1

Lab Sample ID: LCS 160-168914/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 170594 — **Prep Batch: 168914**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4,5-Trichlorophenol	200	177	O	ug/L		89	60 - 86
2,4,6-Trichlorophenol	200	179	O	ug/L		89	61 - 86
2,4-Dichlorophenol	200	165	O	ug/L		82	59 - 81
2,4-Dimethylphenol	200	154		ug/L		77	48 - 96

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 160-168914/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 170594 — **Prep Batch: 168914**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4-Dinitrophenol	200	116		ug/L		58	38 - 95
2-Chlorophenol	200	147		ug/L		73	54 - 81
2-Methylphenol	200	117		ug/L		58	47 - 75
2-Nitrophenol	200	175		ug/L		87	59 - 88
3 & 4 Methylphenol	200	121		ug/L		61	40 - 79
4,6-Dinitro-2-methylphenol	200	178		ug/L		89	60 - 98
4-Chloro-3-methylphenol	200	145		ug/L		73	56 - 83
4-Nitrophenol	200	50.2		ug/L		25	21 - 36
Pentachlorophenol	200	161		ug/L		80	47 - 96
Phenol	200	55.8		ug/L		28	21 - 37

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*87*		*47 - 103*
2-Fluorobiphenyl (Surr)	*89*		*30 - 99*
2-Fluorophenol (Surr)	*46*		*10 - 74*
Nitrobenzene-d5 (Surr)	*88*		*31 - 105*
Phenol-d5 (Surr)	*29*		*10 - 50*
Terphenyl-d14 (Surr)	*89*		*68 - 116*

Lab Sample ID: 160-10078-3 MS — **Client Sample ID: B2YW10**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 170594 — **Prep Batch: 168914**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4,5-Trichlorophenol	0.95	U O	190	158		ug/L		83	48 - 97
2,4,6-Trichlorophenol	0.95	U O	190	158		ug/L		83	48 - 95
2,4-Dichlorophenol	0.95	U O	190	144		ug/L		76	48 - 92
2,4-Dimethylphenol	0.95	U	190	131		ug/L		69	44 - 92
2,4-Dinitrophenol	1.9	U	190	115		ug/L		61	40 - 96
2-Chlorophenol	0.95	U	190	124		ug/L		65	45 - 94
2-Methylphenol	0.95	U	190	97.4		ug/L		51	33 - 95
2-Nitrophenol	1.4	U	190	153		ug/L		80	49 - 96
3 & 4 Methylphenol	1.9	U	190	100		ug/L		53	26 - 113
4,6-Dinitro-2-methylphenol	1.2	U	190	163		ug/L		86	55 - 109
4-Chloro-3-methylphenol	0.95	U	190	125		ug/L		66	40 - 99
4-Nitrophenol	1.9	U	190	43.9		ug/L		23	10 - 76
Pentachlorophenol	1.2	U	190	147		ug/L		77	49 - 92
Phenol	1.9	U	190	43.7		ug/L		23	10 - 70

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*83*		*47 - 103*
2-Fluorobiphenyl (Surr)	*84*		*30 - 99*
2-Fluorophenol (Surr)	*39*		*10 - 74*
Nitrobenzene-d5 (Surr)	*82*		*31 - 105*
Phenol-d5 (Surr)	*24*		*10 - 50*
Terphenyl-d14 (Surr)	*86*		*68 - 116*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 160-10078-3 MSD — **Client Sample ID: B2YW10**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 170594 — **Prep Batch: 168914**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,4,5-Trichlorophenol	0.95	U O	190	169		ug/L		89	48 - 97	6	20
2,4,6-Trichlorophenol	0.95	U O	190	168		ug/L		88	48 - 95	6	20
2,4-Dichlorophenol	0.95	U O	190	154		ug/L		81	48 - 92	7	20
2,4-Dimethylphenol	0.95	U	190	139		ug/L		73	44 - 92	6	20
2,4-Dinitrophenol	1.9	U	190	120		ug/L		63	40 - 96	4	20
2-Chlorophenol	0.95	U	190	133		ug/L		70	45 - 94	7	20
2-Methylphenol	0.95	U	190	103		ug/L		54	33 - 95	6	20
2-Nitrophenol	1.4	U	190	164		ug/L		86	49 - 96	7	20
3 & 4 Methylphenol	1.9	U	190	106		ug/L		56	26 - 113	6	20
4,6-Dinitro-2-methylphenol	1.2	U	190	175		ug/L		92	55 - 109	7	20
4-Chloro-3-methylphenol	0.95	U	190	132		ug/L		70	40 - 99	5	20
4-Nitrophenol	1.9	U	190	45.2		ug/L		24	10 - 76	3	20
Pentachlorophenol	1.2	U	190	157		ug/L		82	49 - 92	6	20
Phenol	1.9	U	190	46.5		ug/L		24	10 - 70	6	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*88*		*47 - 103*
2-Fluorobiphenyl (Surr)	*90*		*30 - 99*
2-Fluorophenol (Surr)	*41*		*10 - 74*
Nitrobenzene-d5 (Surr)	*87*		*31 - 105*
Phenol-d5 (Surr)	*26*		*10 - 50*
Terphenyl-d14 (Surr)	*91*		*68 - 116*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 160-169187/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 169753 — **Prep Batch: 169187**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	3.7	U	10.0	3.7	ug/L		01/19/15 13:44	01/21/15 19:42	1
Arsenic	1.8	U	10.0	1.8	ug/L		01/19/15 13:44	01/21/15 19:42	1
Barium	2.1	U	50.0	2.1	ug/L		01/19/15 13:44	01/21/15 19:42	1
Beryllium	0.28	U	5.0	0.28	ug/L		01/19/15 13:44	01/21/15 19:42	1
Cadmium	0.34	U	5.0	0.34	ug/L		01/19/15 13:44	01/21/15 19:42	1
Calcium	54.2	U	1000	54.2	ug/L		01/19/15 13:44	01/21/15 19:42	1
Boron	7.2	U	50.0	7.2	ug/L		01/19/15 13:44	01/21/15 19:42	1
Chromium	3.4	U	10.0	3.4	ug/L		01/19/15 13:44	01/21/15 19:42	1
Cobalt	2.7	U	50.0	2.7	ug/L		01/19/15 13:44	01/21/15 19:42	1
Copper	2.1	U	25.0	2.1	ug/L		01/19/15 13:44	01/21/15 19:42	1
Iron	12.8	U	100	12.8	ug/L		01/19/15 13:44	01/21/15 19:42	1
Magnesium	50.5	U	1000	50.5	ug/L		01/19/15 13:44	01/21/15 19:42	1
Manganese	1.0	U	15.0	1.0	ug/L		01/19/15 13:44	01/21/15 19:42	1
Nickel	2.6	U	40.0	2.6	ug/L		01/19/15 13:44	01/21/15 19:42	1
Potassium	456	U	5000	456	ug/L		01/19/15 13:44	01/21/15 19:42	1
Silver	0.99	U	10.0	0.99	ug/L		01/19/15 13:44	01/21/15 19:42	1
Sodium	105	U	1000	105	ug/L		01/19/15 13:44	01/21/15 19:42	1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: MB 160-169187/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 169753 — **Prep Batch: 169187**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Strontium	0.24	U	5.0	0.24	ug/L		01/19/15 13:44	01/21/15 19:42	1
Vanadium	4.4	U	50.0	4.4	ug/L		01/19/15 13:44	01/21/15 19:42	1
Zinc	8.3	U	20.0	8.3	ug/L		01/19/15 13:44	01/21/15 19:42	1

Lab Sample ID: LCS 160-169187/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 169753 — **Prep Batch: 169187**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	500	488.9		ug/L		98	80 - 120
Arsenic	1000	965.3		ug/L		97	80 - 120
Barium	1000	1021		ug/L		102	80 - 120
Beryllium	1000	995.3		ug/L		100	80 - 120
Cadmium	1000	974.2		ug/L		97	80 - 120
Calcium	10000	11070		ug/L		111	80 - 120
Boron	2000	1939		ug/L		97	80 - 120
Chromium	1000	1032		ug/L		103	80 - 120
Cobalt	1000	1039		ug/L		104	80 - 120
Copper	1000	1010		ug/L		101	80 - 120
Iron	10000	9835		ug/L		98	80 - 120
Magnesium	10000	9357		ug/L		94	80 - 120
Manganese	1000	975.0		ug/L		98	80 - 120
Nickel	1000	1036		ug/L		104	80 - 120
Potassium	10000	9720		ug/L		97	80 - 120
Silver	200	205.9		ug/L		103	80 - 120
Sodium	10000	10110		ug/L		101	80 - 120
Strontium	1000	1029		ug/L		103	80 - 120
Vanadium	1000	993.7		ug/L		99	80 - 120
Zinc	1000	1007		ug/L		101	80 - 120

Lab Sample ID: 160-10061-7 MS — **Client Sample ID: B2YVW6**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 169753 — **Prep Batch: 169187**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	3.7	U	500	488.9		ug/L		98	75 - 125
Arsenic	3.2	B	1000	972.2		ug/L		97	75 - 125
Barium	71.6		1000	1095		ug/L		102	75 - 125
Beryllium	0.28	U	1000	1004		ug/L		100	75 - 125
Cadmium	0.34	U	1000	970.6		ug/L		97	75 - 125
Calcium	60800		10000	69950		ug/L		92	75 - 125
Boron	36.1	B	2000	1988		ug/L		98	75 - 125
Chromium	25.8		1000	1029		ug/L		100	75 - 125
Cobalt	2.7	U	1000	1002		ug/L		100	75 - 125
Copper	2.1	U	1000	993.3		ug/L		99	75 - 125
Iron	101		10000	9890		ug/L		98	75 - 125
Magnesium	17600		10000	26640		ug/L		90	75 - 125
Manganese	3.1	B	1000	964.6		ug/L		96	75 - 125
Nickel	17.5	B	1000	1013		ug/L		100	75 - 125

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 160-10061-7 MS — **Client Sample ID: B2YVW6**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 169753 — **Prep Batch: 169187**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Potassium	7220		10000	17290		ug/L		101	75 - 125
Silver	0.99	U	200	205.8		ug/L		103	75 - 125
Sodium	23400		10000	33820		ug/L		105	75 - 125
Strontium	287		1000	1318		ug/L		103	75 - 125
Vanadium	17.7	B	1000	1008		ug/L		99	75 - 125
Zinc	8.3	U	1000	1003		ug/L		100	75 - 125

Lab Sample ID: 160-10061-7 MSD — **Client Sample ID: B2YVW6**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 169753 — **Prep Batch: 169187**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	3.7	U	500	485.1		ug/L		97	75 - 125	1	20
Arsenic	3.2	B	1000	967.4		ug/L		96	75 - 125	0	20
Barium	71.6		1000	1089		ug/L		102	75 - 125	1	20
Beryllium	0.28	U	1000	1002		ug/L		100	75 - 125	0	20
Cadmium	0.34	U	1000	964.7		ug/L		96	75 - 125	1	20
Calcium	60800		10000	70040		ug/L		92	75 - 125	0	20
Boron	36.1	B	2000	2004		ug/L		98	75 - 125	1	20
Chromium	25.8		1000	1013		ug/L		99	75 - 125	2	20
Cobalt	2.7	U	1000	1002		ug/L		100	75 - 125	0	20
Copper	2.1	U	1000	985.5		ug/L		99	75 - 125	1	20
Iron	101		10000	9846		ug/L		97	75 - 125	0	20
Magnesium	17600		10000	26860		ug/L		92	75 - 125	1	20
Manganese	3.1	B	1000	967.3		ug/L		96	75 - 125	0	20
Nickel	17.5	B	1000	1007		ug/L		99	75 - 125	1	20
Potassium	7220		10000	17280		ug/L		101	75 - 125	0	20
Silver	0.99	U	200	203.1		ug/L		102	75 - 125	1	20
Sodium	23400		10000	34030		ug/L		107	75 - 125	1	20
Strontium	287		1000	1313		ug/L		103	75 - 125	0	20
Vanadium	17.7	B	1000	1009		ug/L		99	75 - 125	0	20
Zinc	8.3	U	1000	1000		ug/L		100	75 - 125	0	20

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 160-169190/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 171315 — **Prep Batch: 169190**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	12.9	U	30.0	12.9	ug/L		01/19/15 13:51	01/30/15 23:04	2
Antimony	1.7	U	5.0	1.7	ug/L		01/19/15 13:51	01/30/15 23:04	2
Arsenic	1.2	U	10.0	1.2	ug/L		01/19/15 13:51	01/30/15 23:04	2
Barium	0.22	U	2.0	0.22	ug/L		01/19/15 13:51	01/30/15 23:04	2
Beryllium	0.35	U	0.50	0.35	ug/L		01/19/15 13:51	01/30/15 23:04	2
Cadmium	0.10	U	0.50	0.10	ug/L		01/19/15 13:51	01/30/15 23:04	2
Chromium	1.0	U	10.0	1.0	ug/L		01/19/15 13:51	01/30/15 23:04	2
Cobalt	0.22	U	2.0	0.22	ug/L		01/19/15 13:51	01/30/15 23:04	2

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 160-169190/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 171315 — **Prep Batch: 169190**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	0.45	U	1.0	0.45	ug/L		01/19/15 13:51	01/30/15 23:04	2
Lead	0.17	U	3.0	0.17	ug/L		01/19/15 13:51	01/30/15 23:04	2
Manganese	0.25	U	2.0	0.25	ug/L		01/19/15 13:51	01/30/15 23:04	2
Molybdenum	1.0	U	5.0	1.0	ug/L		01/19/15 13:51	01/30/15 23:04	2
Nickel	0.40	U	5.0	0.40	ug/L		01/19/15 13:51	01/30/15 23:04	2
Selenium	1.6	U	5.0	1.6	ug/L		01/19/15 13:51	01/30/15 23:04	2
Silver	0.82	U	2.0	0.82	ug/L		01/19/15 13:51	01/30/15 23:04	2
Strontium	0.128	B	5.0	0.060	ug/L		01/19/15 13:51	01/30/15 23:04	2
Thallium	0.55	U	2.0	0.55	ug/L		01/19/15 13:51	01/30/15 23:04	2
Thorium	0.55	U	2.0	0.55	ug/L		01/19/15 13:51	01/30/15 23:04	2
Tin	1.1	U	2.0	1.1	ug/L		01/19/15 13:51	01/30/15 23:04	2
Uranium	0.23	U	1.0	0.23	ug/L		01/19/15 13:51	01/30/15 23:04	2
Zinc	8.3	U	10.0	8.3	ug/L		01/19/15 13:51	01/30/15 23:04	2

Lab Sample ID: LCS 160-169190/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 171315 — **Prep Batch: 169190**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	10000	9774		ug/L		98	80 - 120
Antimony	500	492.1		ug/L		98	80 - 120
Arsenic	1000	967.7		ug/L		97	80 - 120
Barium	1000	983.8		ug/L		98	80 - 120
Beryllium	1000	1030		ug/L		103	80 - 120
Cadmium	1000	976.6		ug/L		98	80 - 120
Chromium	1000	979.7		ug/L		98	80 - 120
Cobalt	1000	989.8		ug/L		99	80 - 120
Copper	1000	1003		ug/L		100	80 - 120
Lead	1000	1037		ug/L		104	80 - 120
Manganese	1000	996.7		ug/L		100	80 - 120
Molybdenum	500	491.9		ug/L		98	80 - 120
Nickel	1000	991.2		ug/L		99	80 - 120
Selenium	500	490.8		ug/L		98	80 - 120
Silver	200	198.2		ug/L		99	80 - 120
Strontium	1000	983.2		ug/L		98	80 - 120
Thallium	200	201.3		ug/L		101	80 - 120
Thorium	1000	1017		ug/L		102	80 - 120
Tin	1000	1024		ug/L		102	80 - 120
Uranium	1000	994.9		ug/L		99	80 - 120
Zinc	1000	995.1		ug/L		100	80 - 120

Lab Sample ID: 160-10093-A-13-C MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 171315 — **Prep Batch: 169190**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	12.9	U	10000	9759		ug/L		98	75 - 125
Antimony	1.7	U	500	520.9		ug/L		104	75 - 125
Arsenic	2.4	B	1000	961.6		ug/L		96	75 - 125

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: 160-10093-A-13-C MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 171315 — **Prep Batch: 169190**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	20.3		1000	998.5		ug/L		98	75 - 125
Beryllium	0.35	U	1000	1079		ug/L		108	75 - 125
Cadmium	0.10	U	1000	985.5		ug/L		99	75 - 125
Chromium	1.6	B	1000	991.2		ug/L		99	75 - 125
Cobalt	0.23	B	1000	951.3		ug/L		95	75 - 125
Copper	0.45	U	1000	956.0		ug/L		96	75 - 125
Lead	0.17	U	1000	1039		ug/L		104	75 - 125
Manganese	0.89	B	1000	965.2		ug/L		96	75 - 125
Molybdenum	1.0	B	500	486.6		ug/L		97	75 - 125
Nickel	0.40	U	1000	956.0		ug/L		96	75 - 125
Selenium	1.6	U	500	488.6		ug/L		98	75 - 125
Silver	0.82	U	200	199.2		ug/L		100	75 - 125
Strontium	125		1000	1091		ug/L		97	75 - 125
Thallium	0.55	U	200	200.7		ug/L		100	75 - 125
Thorium	0.55	U	1000	1007		ug/L		101	75 - 125
Tin	1.1	U	1000	1038		ug/L		104	75 - 125
Uranium	1.2		1000	986.6		ug/L		99	75 - 125
Zinc	8.3	U	1000	977.1		ug/L		98	75 - 125

Lab Sample ID: 160-10093-A-13-D MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 171315 — **Prep Batch: 169190**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	12.9	U	10000	9939		ug/L		99	75 - 125	2	20
Antimony	1.7	U	500	513.2		ug/L		103	75 - 125	1	20
Arsenic	2.4	B	1000	950.7		ug/L		95	75 - 125	1	20
Barium	20.3		1000	998.0		ug/L		98	75 - 125	0	20
Beryllium	0.35	U	1000	1073		ug/L		107	75 - 125	1	20
Cadmium	0.10	U	1000	993.1		ug/L		99	75 - 125	1	20
Chromium	1.6	B	1000	1005		ug/L		100	75 - 125	1	20
Cobalt	0.23	B	1000	935.9		ug/L		94	75 - 125	2	20
Copper	0.45	U	1000	947.2		ug/L		95	75 - 125	1	20
Lead	0.17	U	1000	1045		ug/L		104	75 - 125	1	20
Manganese	0.89	B	1000	958.6		ug/L		96	75 - 125	1	20
Molybdenum	1.0	B	500	489.7		ug/L		98	75 - 125	1	20
Nickel	0.40	U	1000	939.7		ug/L		94	75 - 125	2	20
Selenium	1.6	U	500	504.9		ug/L		101	75 - 125	3	20
Silver	0.82	U	200	200.6		ug/L		100	75 - 125	1	20
Strontium	125		1000	1096		ug/L		97	75 - 125	0	20
Thallium	0.55	U	200	202.2		ug/L		101	75 - 125	1	20
Thorium	0.55	U	1000	1003		ug/L		100	75 - 125	0	20
Tin	1.1	U	1000	1045		ug/L		105	75 - 125	1	20
Uranium	1.2		1000	999.3		ug/L		100	75 - 125	1	20
Zinc	8.3	U	1000	960.4		ug/L		96	75 - 125	2	20

QC Sample Results

Client: CH2M Hill Plateau Remediation Company
Project/Site: S,W,I,A ,X SAFS- GROUNDWATER

TestAmerica Job ID: 160-10061-1
SDG: SL1748

Method: 310.1 - Alkalinity

Lab Sample ID: MB 160-167982/1 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 167982

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	0.14	U	1.3	0.14	mg/L			01/12/15 09:35	1
Bicarbonate Alkalinity	0.14	U	1.3	0.14	mg/L			01/12/15 09:35	1
Carbonate Alkalinity	0.14	U	1.3	0.14	mg/L			01/12/15 09:35	1
Hydroxide Alkalinity	0.14	U	1.3	0.14	mg/L			01/12/15 09:35	1

Lab Sample ID: HLCS 160-167982/3 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 167982

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity	400	378.0		mg/L		95	90 - 110
Bicarbonate Alkalinity	400	378.0		mg/L		95	90 - 110

Lab Sample ID: LCS 160-167982/2 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 167982

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity	200	188.0		mg/L		94	90 - 110
Bicarbonate Alkalinity	200	188.0		mg/L		94	90 - 110

Lab Sample ID: 160-10043-A-7 MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 167982

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity	90.0		100	186.0		mg/L		96	80 - 120
Bicarbonate Alkalinity	90.0		100	186.0		mg/L		96	80 - 120

Lab Sample ID: 160-10043-A-7 DU — **Client Sample ID: Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 167982

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Alkalinity	90.0		96.00		mg/L		6	20
Bicarbonate Alkalinity	90.0		96.00		mg/L		6	20
Carbonate Alkalinity	0.54	U	0.54	U	mg/L		NC	20
Hydroxide Alkalinity	0.54	U	0.54	U	mg/L		NC	20

Lab Sample ID: MB 160-168349/1 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 168349

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	1.25	B	1.3	0.14	mg/L			01/14/15 09:41	1
Bicarbonate Alkalinity	1.25	B	1.3	0.14	mg/L			01/14/15 09:41	1
Carbonate Alkalinity	0.14	U	1.3	0.14	mg/L			01/14/15 09:41	1
Hydroxide Alkalinity	0.14	U	1.3	0.14	mg/L			01/14/15 09:41	1

Method: 310.1 - Alkalinity (Continued)

Lab Sample ID: HLCS 160-168349/3 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 168349

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity	400	372.0		mg/L		93	90 - 110
Bicarbonate Alkalinity	400	372.0		mg/L		93	90 - 110

Lab Sample ID: LCS 160-168349/2 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 168349

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity	200	192.0		mg/L		96	90 - 110
Bicarbonate Alkalinity	200	192.0		mg/L		96	90 - 110

Lab Sample ID: 160-10078-23 MS — **Client Sample ID: B2YVY3**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 168349

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity	76.0		100	167.0		mg/L		91	80 - 120
Bicarbonate Alkalinity	76.0		100	167.0		mg/L		91	80 - 120

Lab Sample ID: 160-10078-23 DU — **Client Sample ID: B2YVY3**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 168349

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Alkalinity	76.0		75.00		mg/L		1	20
Bicarbonate Alkalinity	76.0		75.00		mg/L		1	20
Carbonate Alkalinity	0.54	U	0.54	U	mg/L		NC	20
Hydroxide Alkalinity	0.54	U	0.54	U	mg/L		NC	20

Method: 9020B - Organic Halides, Total (TOX)

Lab Sample ID: MB 160-169134/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 169140 — **Prep Batch: 169134**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Halogens, Total Organic	1.8	U	5.0	1.8	ug/L		01/16/15 10:00	01/16/15 12:24	1

Lab Sample ID: LCS 160-169134/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 169140 — **Prep Batch: 169134**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Halogens, Total Organic	100	98.49		ug/L		98	90 - 116

Method: 9020B - Organic Halides, Total (TOX) (Continued)

Lab Sample ID: 160-10042-G-9-C MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 169140 — **Prep Batch: 169134**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Halogens, Total Organic	6.5		100	106.1		ug/L		100	85 - 117

Lab Sample ID: 160-10061-6 MS — **Client Sample ID: B2YWR0**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 169140 — **Prep Batch: 169134**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Halogens, Total Organic	5.0		100	101.8		ug/L		97	85 - 117

Lab Sample ID: 160-10042-G-9-B DU — **Client Sample ID: Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 169140 — **Prep Batch: 169134**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Halogens, Total Organic	6.5		6.97		ug/L		7	20

Lab Sample ID: MB 160-172573/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 172576 — **Prep Batch: 172573**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Halogens, Total Organic	1.8	U	5.0	1.8	ug/L		01/23/15 11:00	01/23/15 11:36	1

Lab Sample ID: LCS 160-172573/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 172576 — **Prep Batch: 172573**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Halogens, Total Organic	100	96.16		ug/L		96	90 - 116

Lab Sample ID: 160-10078-1 MS — **Client Sample ID: B2YWT3**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 172576 — **Prep Batch: 172573**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Halogens, Total Organic	3.5	B	100	102.7		ug/L		99	85 - 117

Lab Sample ID: 160-10078-16 MS — **Client Sample ID: B2YW33**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 172576 — **Prep Batch: 172573**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Halogens, Total Organic	4.1	B	100	94.58		ug/L		90	85 - 117

Lab Sample ID: 160-10078-1 DU — **Client Sample ID: B2YWT3**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 172576 — **Prep Batch: 172573**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Halogens, Total Organic	3.5	B	3.60	B	ug/L		3	20

QC Sample Results

Client: CH2M Hill Plateau Remediation Company
Project/Site: S,W,I,A ,X SAFS- GROUNDWATER

TestAmerica Job ID: 160-10061-1
SDG: SL1748

Lab Sample ID: MB 160-172699/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 172700 — **Prep Batch: 172699**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Halogens, Total Organic	1.8	U	5.0	1.8	ug/L		02/05/15 10:00	02/05/15 12:18	1

Lab Sample ID: LCS 160-172699/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 172700 — **Prep Batch: 172699**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Halogens, Total Organic	100	102.7		ug/L		103	90 - 116

Lab Sample ID: 160-10108-B-4-C MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 172700 — **Prep Batch: 172699**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Halogens, Total Organic	2.3	B	100	104.0		ug/L		102	85 - 117

Lab Sample ID: 160-10108-B-9-B MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 172700 — **Prep Batch: 172699**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Halogens, Total Organic	1.9	B	100	102.7		ug/L		101	85 - 117

Lab Sample ID: 160-10108-B-4-B DU — **Client Sample ID: Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 172700 — **Prep Batch: 172699**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Halogens, Total Organic	2.3	B	2.56	B	ug/L		13	20

Method: 9060 - Organic Carbon, Total (TOC)

Lab Sample ID: MB 160-171533/32 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 171533

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	0.35	U	1.0	0.35	mg/L			01/30/15 02:55	1

Lab Sample ID: LCS 160-171533/33 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 171533

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	10.0	9.77		mg/L		98	90 - 110

Method: 9060 - Organic Carbon, Total (TOC) (Continued)

Lab Sample ID: 160-10061-3 MS — **Client Sample ID: B2YWP9**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 171533

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	0.35	U	5.00	4.88		mg/L		98	76 - 120

Lab Sample ID: 160-10061-3 DU — **Client Sample ID: B2YWP9**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 171533

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Organic Carbon	0.35	U	0.35	U	mg/L		NC	20

Lab Sample ID: MB 160-173727/4 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 173727

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	0.35	U	1.0	0.35	mg/L			02/11/15 19:25	1

Lab Sample ID: LCS 160-173727/5 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 173727

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	10.0	9.74		mg/L		97	90 - 110

Lab Sample ID: 160-10078-1 MS — **Client Sample ID: B2YWT3**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 173727

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	0.35	U	5.00	4.86		mg/L		97	76 - 120

Lab Sample ID: 160-10078-15 MS — **Client Sample ID: B2YWV0**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 173727

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	0.35	U	5.00	4.96		mg/L		99	76 - 120

Lab Sample ID: 160-10078-1 DU — **Client Sample ID: B2YWT3**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 173727

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Organic Carbon	0.35	U	0.35	U	mg/L		NC	20

QC Association Summary

Client: CH2M Hill Plateau Remediation Company
Project/Site: S,W,I,A ,X SAFS- GROUNDWATER

TestAmerica Job ID: 160-10061-1
SDG: SL1748

GC/MS VOA

Analysis Batch: 168034

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-10042-B-2 MS	Matrix Spike	Total/NA	Water	8260C	
160-10042-C-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260C	
160-10061-1	B2Y4B0	Total/NA	Water	8260C	
160-10061-2	B2Y4C7	Total/NA	Water	8260C	
160-10061-4	B2YVV8	Total/NA	Water	8260C	
LCS 160-168034/4	Lab Control Sample	Total/NA	Water	8260C	
LCSD 160-168034/5	Lab Control Sample Dup	Total/NA	Water	8260C	
MB 160-168034/7	Method Blank	Total/NA	Water	8260C	

Analysis Batch: 168243

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-10078-26	B2Y4C8	Total/NA	Water	8260C	
160-10093-B-3 MS	Matrix Spike	Total/NA	Water	8260C	
160-10093-C-3 MSD	Matrix Spike Duplicate	Total/NA	Water	8260C	
LCS 160-168243/6	Lab Control Sample	Total/NA	Water	8260C	
LCSD 160-168243/7	Lab Control Sample Dup	Total/NA	Water	8260C	
MB 160-168243/9	Method Blank	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 167826

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-10061-4	B2YVV8	Total/NA	Water	3510C	
160-10061-4 MS	B2YVV8	Total/NA	Water	3510C	
160-10061-4 MSD	B2YVV8	Total/NA	Water	3510C	
LCS 160-167826/2-A	Lab Control Sample	Total/NA	Water	3510C	
MB 160-167826/1-A	Method Blank	Total/NA	Water	3510C	

Analysis Batch: 167832

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-10061-4	B2YVV8	Total/NA	Water	8270D	167826
160-10061-4 MS	B2YVV8	Total/NA	Water	8270D	167826
160-10061-4 MSD	B2YVV8	Total/NA	Water	8270D	167826
LCS 160-167826/2-A	Lab Control Sample	Total/NA	Water	8270D	167826
MB 160-167826/1-A	Method Blank	Total/NA	Water	8270D	167826

Prep Batch: 168914

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-10078-3	B2YW10	Total/NA	Water	3510C	
160-10078-3 MS	B2YW10	Total/NA	Water	3510C	
160-10078-3 MSD	B2YW10	Total/NA	Water	3510C	
160-10078-8	B2YW13	Total/NA	Water	3510C	
160-10078-16	B2YW33	Total/NA	Water	3510C	
160-10078-19	B2YW07	Total/NA	Water	3510C	
LCS 160-168914/2-A	Lab Control Sample	Total/NA	Water	3510C	
MB 160-168914/1-A	Method Blank	Total/NA	Water	3510C	

Analysis Batch: 170594

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-10078-3	B2YW10	Total/NA	Water	8270D	168914

GC/MS Semi VOA (Continued)

Analysis Batch: 170594 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-10078-3 MS	B2YW10	Total/NA	Water	8270D	168914
160-10078-3 MSD	B2YW10	Total/NA	Water	8270D	168914
160-10078-8	B2YW13	Total/NA	Water	8270D	168914
160-10078-16	B2YW33	Total/NA	Water	8270D	168914
160-10078-19	B2YW07	Total/NA	Water	8270D	168914
LCS 160-168914/2-A	Lab Control Sample	Total/NA	Water	8270D	168914
MB 160-168914/1-A	Method Blank	Total/NA	Water	8270D	168914

Metals

Prep Batch: 169187

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-10061-7	B2YVW6	Total/NA	Water	3010A	
160-10061-7 MS	B2YVW6	Total/NA	Water	3010A	
160-10061-7 MSD	B2YVW6	Total/NA	Water	3010A	
160-10061-8	B2YVW7	Dissolved	Water	3010A	
160-10078-9	B2YWF9	Dissolved	Water	3010A	
160-10078-10	B2YWF7	Total/NA	Water	3010A	
160-10078-11	B300R0	Dissolved	Water	3010A	
160-10078-12	B300P9	Total/NA	Water	3010A	
160-10078-21	B300P1	Total/NA	Water	3010A	
160-10078-22	B300P2	Dissolved	Water	3010A	
LCS 160-169187/2-A	Lab Control Sample	Total/NA	Water	3010A	
MB 160-169187/1-A	Method Blank	Total/NA	Water	3010A	

Prep Batch: 169190

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-10078-11	B300R0	Dissolved	Water	3010A	
160-10078-12	B300P9	Total/NA	Water	3010A	
160-10078-21	B300P1	Total/NA	Water	3010A	
160-10078-22	B300P2	Dissolved	Water	3010A	
160-10093-A-13-C MS	Matrix Spike	Dissolved	Water	3010A	
160-10093-A-13-D MSD	Matrix Spike Duplicate	Dissolved	Water	3010A	
LCS 160-169190/2-A	Lab Control Sample	Total/NA	Water	3010A	
MB 160-169190/1-A	Method Blank	Total/NA	Water	3010A	

Analysis Batch: 169753

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-10061-7	B2YVW6	Total/NA	Water	6010C	169187
160-10061-7 MS	B2YVW6	Total/NA	Water	6010C	169187
160-10061-7 MSD	B2YVW6	Total/NA	Water	6010C	169187
160-10061-8	B2YVW7	Dissolved	Water	6010C	169187
160-10078-9	B2YWF9	Dissolved	Water	6010C	169187
160-10078-10	B2YWF7	Total/NA	Water	6010C	169187
160-10078-11	B300R0	Dissolved	Water	6010C	169187
160-10078-12	B300P9	Total/NA	Water	6010C	169187
160-10078-21	B300P1	Total/NA	Water	6010C	169187
160-10078-22	B300P2	Dissolved	Water	6010C	169187
LCS 160-169187/2-A	Lab Control Sample	Total/NA	Water	6010C	169187
MB 160-169187/1-A	Method Blank	Total/NA	Water	6010C	169187

QC Association Summary

Client: CH2M Hill Plateau Remediation Company
Project/Site: S,W,I,A ,X SAFS- GROUNDWATER

TestAmerica Job ID: 160-10061-1
SDG: SL1748

Metals (Continued)

Analysis Batch: 171315

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-10078-11	B300R0	Dissolved	Water	6020A	169190
160-10078-12	B300P9	Total/NA	Water	6020A	169190
160-10078-21	B300P1	Total/NA	Water	6020A	169190
160-10078-22	B300P2	Dissolved	Water	6020A	169190
160-10093-A-13-C MS	Matrix Spike	Dissolved	Water	6020A	169190
160-10093-A-13-D MSD	Matrix Spike Duplicate	Dissolved	Water	6020A	169190
LCS 160-169190/2-A	Lab Control Sample	Total/NA	Water	6020A	169190
MB 160-169190/1-A	Method Blank	Total/NA	Water	6020A	169190

Analysis Batch: 171427

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-10078-22	B300P2	Dissolved	Water	6020A	169190

General Chemistry

Analysis Batch: 167982

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-10043-A-7 DU	Duplicate	Total/NA	Water	310.1	
160-10043-A-7 MS	Matrix Spike	Total/NA	Water	310.1	
160-10061-4	B2YVV8	Total/NA	Water	310.1	
160-10061-7	B2YVW6	Total/NA	Water	310.1	
HLCS 160-167982/3	Lab Control Sample	Total/NA	Water	310.1	
LCS 160-167982/2	Lab Control Sample	Total/NA	Water	310.1	
MB 160-167982/1	Method Blank	Total/NA	Water	310.1	

Analysis Batch: 168349

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-10078-3	B2YW10	Total/NA	Water	310.1	
160-10078-8	B2YW13	Total/NA	Water	310.1	
160-10078-10	B2YWF7	Total/NA	Water	310.1	
160-10078-16	B2YW33	Total/NA	Water	310.1	
160-10078-19	B2YW07	Total/NA	Water	310.1	
160-10078-23	B2YVY3	Total/NA	Water	310.1	
160-10078-23 DU	B2YVY3	Total/NA	Water	310.1	
160-10078-23 MS	B2YVY3	Total/NA	Water	310.1	
160-10078-24	B2YVY4	Total/NA	Water	310.1	
160-10078-25	B2YW03	Total/NA	Water	310.1	
HLCS 160-168349/3	Lab Control Sample	Total/NA	Water	310.1	
LCS 160-168349/2	Lab Control Sample	Total/NA	Water	310.1	
MB 160-168349/1	Method Blank	Total/NA	Water	310.1	

Prep Batch: 169134

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-10042-G-9-B DU	Duplicate	Total/NA	Water	Carbon Trap	
160-10042-G-9-C MS	Matrix Spike	Total/NA	Water	Carbon Trap	
160-10061-3	B2YWP9	Total/NA	Water	Carbon Trap	
160-10061-4	B2YVV8	Total/NA	Water	Carbon Trap	
160-10061-5	B2YWR1	Total/NA	Water	Carbon Trap	
160-10061-6	B2YWR0	Total/NA	Water	Carbon Trap	
160-10061-6 MS	B2YWR0	Total/NA	Water	Carbon Trap	

General Chemistry (Continued)

Prep Batch: 169134 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-10061-7	B2YVW6	Total/NA	Water	Carbon Trap	
LCS 160-169134/2-A	Lab Control Sample	Total/NA	Water	Carbon Trap	
MB 160-169134/1-A	Method Blank	Total/NA	Water	Carbon Trap	

Analysis Batch: 169140

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-10042-G-9-B DU	Duplicate	Total/NA	Water	9020B	169134
160-10042-G-9-C MS	Matrix Spike	Total/NA	Water	9020B	169134
160-10061-3	B2YWP9	Total/NA	Water	9020B	169134
160-10061-4	B2YVV8	Total/NA	Water	9020B	169134
160-10061-5	B2YWR1	Total/NA	Water	9020B	169134
160-10061-6	B2YWR0	Total/NA	Water	9020B	169134
160-10061-6 MS	B2YWR0	Total/NA	Water	9020B	169134
160-10061-7	B2YVW6	Total/NA	Water	9020B	169134
LCS 160-169134/2-A	Lab Control Sample	Total/NA	Water	9020B	169134
MB 160-169134/1-A	Method Blank	Total/NA	Water	9020B	169134

Analysis Batch: 171533

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-10061-3	B2YWP9	Total/NA	Water	9060	
160-10061-3 DU	B2YWP9	Total/NA	Water	9060	
160-10061-3 MS	B2YWP9	Total/NA	Water	9060	
160-10061-4	B2YVV8	Total/NA	Water	9060	
160-10061-5	B2YWR1	Total/NA	Water	9060	
160-10061-6	B2YWR0	Total/NA	Water	9060	
160-10061-7	B2YVW6	Total/NA	Water	9060	
LCS 160-171533/33	Lab Control Sample	Total/NA	Water	9060	
MB 160-171533/32	Method Blank	Total/NA	Water	9060	

Prep Batch: 172573

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-10078-1	B2YWT3	Total/NA	Water	Carbon Trap	
160-10078-1 DU	B2YWT3	Total/NA	Water	Carbon Trap	
160-10078-1 MS	B2YWT3	Total/NA	Water	Carbon Trap	
160-10078-2	B2YWT1	Total/NA	Water	Carbon Trap	
160-10078-3	B2YW10	Total/NA	Water	Carbon Trap	
160-10078-4	B2YWT2	Total/NA	Water	Carbon Trap	
160-10078-5	B2YWT6	Total/NA	Water	Carbon Trap	
160-10078-6	B2YWT4	Total/NA	Water	Carbon Trap	
160-10078-7	B2YWT5	Total/NA	Water	Carbon Trap	
160-10078-8	B2YW13	Total/NA	Water	Carbon Trap	
160-10078-13	B2YWV2	Total/NA	Water	Carbon Trap	
160-10078-14	B2YWV1	Total/NA	Water	Carbon Trap	
160-10078-15	B2YWV0	Total/NA	Water	Carbon Trap	
160-10078-16	B2YW33	Total/NA	Water	Carbon Trap	
160-10078-16 MS	B2YW33	Total/NA	Water	Carbon Trap	
160-10078-17	B2YWR9	Total/NA	Water	Carbon Trap	
160-10078-18	B2YWR8	Total/NA	Water	Carbon Trap	
160-10078-19	B2YW07	Total/NA	Water	Carbon Trap	
160-10078-20	B2YWT0	Total/NA	Water	Carbon Trap	
160-10078-23	B2YVY3	Total/NA	Water	Carbon Trap	

General Chemistry (Continued)

Prep Batch: 172573 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 160-172573/2-A	Lab Control Sample	Total/NA	Water	Carbon Trap	
MB 160-172573/1-A	Method Blank	Total/NA	Water	Carbon Trap	

Analysis Batch: 172576

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-10078-1	B2YWT3	Total/NA	Water	9020B	172573
160-10078-1 DU	B2YWT3	Total/NA	Water	9020B	172573
160-10078-1 MS	B2YWT3	Total/NA	Water	9020B	172573
160-10078-2	B2YWT1	Total/NA	Water	9020B	172573
160-10078-3	B2YW10	Total/NA	Water	9020B	172573
160-10078-4	B2YWT2	Total/NA	Water	9020B	172573
160-10078-5	B2YWT6	Total/NA	Water	9020B	172573
160-10078-6	B2YWT4	Total/NA	Water	9020B	172573
160-10078-7	B2YWT5	Total/NA	Water	9020B	172573
160-10078-8	B2YW13	Total/NA	Water	9020B	172573
160-10078-13	B2YWV2	Total/NA	Water	9020B	172573
160-10078-14	B2YWV1	Total/NA	Water	9020B	172573
160-10078-15	B2YWV0	Total/NA	Water	9020B	172573
160-10078-16	B2YW33	Total/NA	Water	9020B	172573
160-10078-16 MS	B2YW33	Total/NA	Water	9020B	172573
160-10078-17	B2YWR9	Total/NA	Water	9020B	172573
160-10078-18	B2YWR8	Total/NA	Water	9020B	172573
160-10078-19	B2YW07	Total/NA	Water	9020B	172573
160-10078-20	B2YWT0	Total/NA	Water	9020B	172573
160-10078-23	B2YVY3	Total/NA	Water	9020B	172573
LCS 160-172573/2-A	Lab Control Sample	Total/NA	Water	9020B	172573
MB 160-172573/1-A	Method Blank	Total/NA	Water	9020B	172573

Prep Batch: 172699

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-10078-24	B2YVY4	Total/NA	Water	Carbon Trap	
160-10078-25	B2YW03	Total/NA	Water	Carbon Trap	
160-10108-B-4-B DU	Duplicate	Total/NA	Water	Carbon Trap	
160-10108-B-4-C MS	Matrix Spike	Total/NA	Water	Carbon Trap	
160-10108-B-9-B MS	Matrix Spike	Total/NA	Water	Carbon Trap	
LCS 160-172699/2-A	Lab Control Sample	Total/NA	Water	Carbon Trap	
MB 160-172699/1-A	Method Blank	Total/NA	Water	Carbon Trap	

Analysis Batch: 172700

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-10078-24	B2YVY4	Total/NA	Water	9020B	172699
160-10078-25	B2YW03	Total/NA	Water	9020B	172699
160-10108-B-4-B DU	Duplicate	Total/NA	Water	9020B	172699
160-10108-B-4-C MS	Matrix Spike	Total/NA	Water	9020B	172699
160-10108-B-9-B MS	Matrix Spike	Total/NA	Water	9020B	172699
LCS 160-172699/2-A	Lab Control Sample	Total/NA	Water	9020B	172699
MB 160-172699/1-A	Method Blank	Total/NA	Water	9020B	172699

Analysis Batch: 173727

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-10078-1	B2YWT3	Total/NA	Water	9060	

QC Association Summary

Client: CH2M Hill Plateau Remediation Company
Project/Site: S,W,I,A ,X SAFS- GROUNDWATER

TestAmerica Job ID: 160-10061-1
SDG: SL1748

General Chemistry (Continued)

Analysis Batch: 173727 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-10078-1 DU	B2YWT3	Total/NA	Water	9060	
160-10078-1 MS	B2YWT3	Total/NA	Water	9060	
160-10078-2	B2YWT1	Total/NA	Water	9060	
160-10078-3	B2YW10	Total/NA	Water	9060	
160-10078-4	B2YWT2	Total/NA	Water	9060	
160-10078-5	B2YWT6	Total/NA	Water	9060	
160-10078-6	B2YWT4	Total/NA	Water	9060	
160-10078-7	B2YWT5	Total/NA	Water	9060	
160-10078-8	B2YW13	Total/NA	Water	9060	
160-10078-13	B2YWV2	Total/NA	Water	9060	
160-10078-14	B2YWV1	Total/NA	Water	9060	
160-10078-15	B2YWV0	Total/NA	Water	9060	
160-10078-15 MS	B2YWV0	Total/NA	Water	9060	
160-10078-16	B2YW33	Total/NA	Water	9060	
160-10078-17	B2YWR9	Total/NA	Water	9060	
160-10078-18	B2YWR8	Total/NA	Water	9060	
160-10078-19	B2YW07	Total/NA	Water	9060	
160-10078-20	B2YWT0	Total/NA	Water	9060	
160-10078-23	B2YVY3	Total/NA	Water	9060	
160-10078-24	B2YVY4	Total/NA	Water	9060	
160-10078-25	B2YW03	Total/NA	Water	9060	
LCS 160-173727/5	Lab Control Sample	Total/NA	Water	9060	
MB 160-173727/4	Method Blank	Total/NA	Water	9060	

Surrogate Summary

Client: CH2M Hill Plateau Remediation Company
Project/Site: S,W,I,A ,X SAFS- GROUNDWATER

TestAmerica Job ID: 160-10061-1
SDG: SL1748

Method: 8260C - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		12DCE	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(75-129)	(81-130)	(81-124)	(87-128)
160-10042-B-2 MS	Matrix Spike	102	116	107	120
160-10042-C-2 MSD	Matrix Spike Duplicate	106	110	106	116
160-10061-1	B2Y4B0	108	128	110	115
160-10061-2	B2Y4C7	104	125	110	121
160-10061-4	B2YVV8	113	128	117	119
160-10078-26	B2Y4C8	98	101	102	109
160-10093-B-3 MS	Matrix Spike	99	103	105	110
160-10093-C-3 MSD	Matrix Spike Duplicate	102	103	107	108
LCS 160-168034/4	Lab Control Sample	103	109	104	115
LCS 160-168243/6	Lab Control Sample	100	101	102	111
LCSD 160-168034/5	Lab Control Sample Dup	99	108	101	117
LCSD 160-168243/7	Lab Control Sample Dup	100	103	104	109
MB 160-168034/7	Method Blank	104	121	107	118
MB 160-168243/9	Method Blank	104	103	104	112

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPH
Lab Sample ID	Client Sample ID	(47-103)	(30-99)	(10-74)	(31-105)	(10-50)	(68-116)
160-10061-4	B2YVV8	89	83	36	80	21	66
160-10061-4 MS	B2YVV8	93	85	37	83	23	79
160-10061-4 MSD	B2YVV8	92	84	37	83	23	77
160-10078-3	B2YW10	80	84	40	83	25	84
160-10078-3 MS	B2YW10	83	84	39	82	24	86
160-10078-3 MSD	B2YW10	88	90	41	87	26	91
160-10078-8	B2YW13	86	91	44	89	27	89
160-10078-16	B2YW33	80	84	41	83	25	89
160-10078-19	B2YW07	80	85	42	84	26	82
LCS 160-167826/2-A	Lab Control Sample	98	90	45	90	29	91
LCS 160-168914/2-A	Lab Control Sample	87	89	46	88	29	89
MB 160-167826/1-A	Method Blank	91	84	42	85	27	88
MB 160-168914/1-A	Method Blank	77	83	41	82	26	80

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPH = Terphenyl-d14 (Surr)