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: 160-11430-1
TestAmerica Sample Delivery Group: SL1795
Client Project/Site: S,W,I,A ,X SAFS- GROUNDWATER

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

Attn: General Mailbox

Authorized for release by:
5/29/2015 3:22:22 PM

Jayna Awalt, Project Manager II
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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: 160-11430-1

Laboratory: TestAmerica St. Louis

Narrative

CASE NARRATIVE

CH2MHill Plateau Remediation Company
P.O. Box 1600
Richland, Washington 99352
May 29, 2015
Attention: Scot Fitzgerald

SDG	: SL1795
Number of Samples	: 22 samples
Sample Matrix	: Water
Data Deliverable	: Summary
Date SDG Closed	: April 25, 2015

II. Introduction

Between April 21 and 25, 22 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: S15-004, W15-004, X15-004

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.

Per CHPRC direction (June 2014), Boron will be reported for Metals using method 6010. Boron will no longer be reported by method 6020.

IV. Definitions

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

Job ID: 160-11430-1 (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.
- **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.

Volatiles

Batch: 188204

The laboratory control sample (LCS) for 188204 recovered outside control limits for the following analyte: Trichlorofluoromethane. The RPI for Trichlorofluoromethane was also outside of acceptable QC criteria. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data has been reported. (LCS 160-188204/16) and (LCSD 160-188204/17) this analyte has been qualified accordingly with an "O" flag in the associated samples.

Semivolatiles

Batch: 189382

Bis(2-ethylhexyl) phthalate was detected in method blank MB 160-188774/1-A at a level exceeding the method detection limit but below the reporting limit 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 188774/189382 recovered outside control limits for the following analytes: Phenol 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 160-188774/2-A) These analytes have been qualified accordingly with an "O" flag in the associated samples.

ICP Metals

Batch: 192334

Boron and Iron were detected in method blank MB 160-190484/1-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".

Job ID: 160-11430-1 (Continued)

Laboratory: TestAmerica St. Louis (Continued)

The low level check standard recovery associated with (CRI 160-192334/7) with prep batch 160-190484 and analytical batch 160-192334 is outside the acceptance criteria for the following analytes: cadmium and boron. The reported samples associated with the CRI are either spike samples that recovered within limits or were below the reporting limit and will be reported.

The interference check standard solution (ICSA) associated with prep batch 190484 and analytical batch 160-192334 had results for chromiu greater than the RL; however, the associated samples were either spiked samples that recovered within limits or were below the reporting lim and will be reported. (ICSA 160-192334/8)

The native sample, matrix spike, and matrix spike duplicate (MS/MSD) associated with preparation batch 160-190484 and analytical batch 160-192334 were performed at the same dilution. Due to the additional level of analyte present in the spiked samples, the concentration of calcium (which interferes with strontium) in the MS/MSD was above the instrument calibration range. The data have been reported and qualified.

The serial dilution performed for the following sample associated with batch preparation batch 160-190484 and analytical batch 160-192334 was outside control limits for magnesium, sodium, strontium: (160-11504-I-1-D SD) indicating the presence of matrix interference.

ICPMS Metals

Batch: 191791

Aluminum and Strontium were detected in method blank MB 160-190485/1-A 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”.

Due to LRC failures, the linear range for Beryllium has been lowered to the concentration if the highest calibration standard (200ppb). The LCS MS & MSD was above the LRC, but was within acceptable limits. (LCS 160-190485/2-A), (160-11504-I-1-H MS) and (160-11504-I-1 MSD)

TOX

Batch: 190442

The following samples in TOX batch 190442 exhibited bottom column results greater than 10% of the combined sum of the top and bottom columns: B30PC2 (160-11532-1). 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.

The %RPD associated with batch 190442 was outside the control limits. RPD determinations are not applicable to values near the reporting limit (<5X RL). Precision criteria for concentrations near the reporting limit are +/- the RL. This analyte has been flagged “M”.

TOC

Batch: 190548

Total Organic Carbon was detected in method blank MB 160-190548/35 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”.

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

Job ID: 160-11430-1 (Continued)

Laboratory: TestAmerica St. Louis (Continued)

Mercury
Alkalinity
Cyanide

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

Login Sample Receipt Checklist

Client: CH2M Hill Plateau Remediation Company

Job Number: 160-11430-1
SDG Number: SL1795

Login Number: 11430
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	1.7
Cooler Temperature is recorded.	True	
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.	False	Sample date on COC S15-004-306 reads 5/20/15. Sample container reads 4/20/15.
Samples are received within Holding Time.	True	Container date used. COC corrected.
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	

CH2MHill Plateau Remediation Company SL1795

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **S15-004-306**

Collector	R.A. Shepard/CHPRC	**Contact/Requester**	Karen Waters-Husted	**Telephone No.**	509-376-4650
SAF No.	S15-004	**Sampling Origin**	Hanford Site	**Purchase Order/Charge Code**	300071
Project Title	CERCLA, APRIL 2015	**Logbook No.**	HNF-N-506 67190	**Ice Chest No.**	GWS-426
Shipped To (Lab)	TestAmerica St. Louis	**Method of Shipment**	Commercial Carrier	**Bill of Lading/Air Bill No.**	7734 1214 6758
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
B30P91	N	W	~~5/20/15~~ 4/20/15	1019	1x250-mL G/P	9012_CYANIDE: COMMON	14 Days	NaOH to pH >=12/Cool <=6C

JA 4/22/15

Relinquished By R.A. Shepard/CHPRC — Print — Sign — Date/Time APR 20 2015 1144	Received By CHPRC BEBriggs — Print — Sign BeBriggs — Date/Time APR 20 2015 1144	Matrix *	
Relinquished By BEBriggs/CHPRC BeBriggs — Date/Time 4/20/15 1400	Received By FEDEX — Date/Time	S = Soil	DS = Drum Solids
Relinquished By FED EX — Date/Time	Received By Jill Clarke Jill Clarke — Date/Time 4.21.15 0900	SE = Sediment	DL = Drum Liquids
Relinquished By — Date/Time ~~4.21.15~~ 4.21.15	Received By — Date/Time	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 82795

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **S15-004-303**

Page 1 of 1

Collector	R.A. Shepard/CHPRC	**Contact/Requester**	Karen Waters-Husted	**Telephone No.**	509-376-4650
SAF No.	S15-004	**Sampling Origin**	Hanford Site	**Purchase Order/Charge Code**	300071
Project Title	CERCLA, APRIL 2015	**Logbook No.**	HNF-N-506 67/90	**Ice Chest No.**	GWS-426
Shipped To (Lab)	TestAmerica St. Louis	**Method of Shipment**	Commercial Carrier	**Bill of Lading/Air Bill No.**	7734 1214 6758
Protocol	SURV	**Priority:**	30 Days **PRIORITY**	**Offsite Property No.**	NA

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
B30P74	N	W	4/20/15	1155	1x250-mL G/P	9012_CYANIDE: COMMON	14 Days	NaOH to pH >=12/Cool <=6C

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
R.A. Shepard/CHPRC			APR 20 2015 1220	BEBriggs		BeBriggs	APR 20 2015 1220
Relinquished By	CHPRC		Date/Time	Received By			Date/Time
BEBriggs	BeBriggs		4/20/15 1400	FEDEX			
Relinquished By			Date/Time	Received By			Date/Time
	FED EX			Jill Clarke	Jill Clarke		4.21.15 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

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May 29, 2015

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5/29/2015

FedEx ® Tracking

773412146758

Ship (P/U) date
Mon 4/20/2015 3:25 pm

RICHLAND, WA US

Delivered
Signed for by: R.CASTELLO

Actual delivery
Tues 4/21/2015 8:57 am

EARTH CITY, MO US

Travel History

Date/Time	Activity	Location
- 4/21/2015 - Tuesday		
8:57 am	Delivered	EARTH CITY, MO
6:51 am	On FedEx vehicle for delivery	EARTH CITY, MO
6:47 am	At local FedEx facility	EARTH CITY, MO
5:17 am	At destination sort facility	BERKELEY, MO
4:29 am	Departed FedEx location	MEMPHIS, TN
12:31 am	Arrived at FedEx location	MEMPHIS, TN
- 4/20/2015 - Monday		
5:06 pm	Left FedEx origin facility	PASCO, WA
3:54 pm	Shipment information sent to FedEx	
3:25 pm	Picked up	PASCO, WA

Shipment Facts

Tracking number	773412146758	Service	FedEx Priority Overnight
Weight	36 lbs / 16.33 kgs	Delivered To	Shipping/Receiving
Total pieces	1	Total shipment weight	36 lbs / 16.33 kgs
Shipper reference	gws-426	Packaging	Your Packaging
Special handling section	Deliver Weekday		

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Login Sample Receipt Checklist

Client: CH2M Hill Plateau Remediation Company

Job Number: 160-11504-1
SDG Number: SL1795

Login Number: 11504
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	1.5
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 SL1795

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **S15-004-290**

Page 1 of 1

Collector	J.C. Fulton CHPRC	**Contact/Requester**	Karen Waters-Husted	**Telephone No.**	509-376-4650
SAF No.	S15-004	**Sampling Origin**	Hanford Site	**Purchase Order/Charge Code**	4/23/15 RPS 300071
Project Title	CERCLA, APRIL 2015	**Logbook No.**	HNF-N-506 67/92	**Ice Chest No.**	GWS-3-411
Shipped To (Lab)	TestAmerica St. Louis	**Method of Shipment**	Commercial Carrier	**Bill of Lading/Air Bill No.**	779344011013
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
B30NT5	N	W	4-23-15	0917	1x500-mL G/P	6010_METALS_ICP: GW 04; ✓ 6020_METALS_ICPMS: GW 01; 7470_MERCURY_CV: COMMON (AQUEOUS) ✓	6 Months	HNO3 to pH <2
B30NT5	N	W	"	"	4x40-mL aGs*	8260_VOA_GCMS: COMMON ✓	14 Days	HCl or H2SO4 to pH <2/Cool <=6C
B30NT5	N	W	"	"	3x1-L aG	8270_SVOA_GCMS: COMMON ✓	7/40 Days	Cool <=6C
B30NT5	N	W	4-23-15	0917	1x250-mL G/P	9012_CYANIDE: COMMON ✓	14 Days	NaOH to pH >=12/Cool <=6C

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
	J.C. Fulton CHPRC		APR 23 2015 1140		R.A. Shepard/CHPRC		APR 23 2015 1140
Relinquished By	R.A. Shepard/CHPRC		APR 23 2015 1400	Received By	FEDEX		Date/Time
Relinquished By	FED EX		Date/Time	Received By	Jill Clarke	Jill Clarke	4.24.15 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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CH2MHill Plateau Remediation Company 824795

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **S15-004-294**

Page 1 of 1

Collector	J.C. Fulton CHPRC	**Contact/Requester**	Karen Waters-Husted	**Telephone No.**	509-376-4650
SAF No.	S15-004	**Sampling Origin**	Hanford Site	**Purchase Order/Charge Code**	300071
Project Title	CERCLA, APRIL 2015	**Logbook No.**	HNF-N-506 67 / 92	**Ice Chest No.**	GWS-411
Shipped To (Lab)	TestAmerica St. Louis	**Method of Shipment**	Commercial Carrier	**Bill of Lading/Air Bill No.**	773444011013
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
B30NY8	N	W	4-23-15	1220	1x500-mL G/P	6010_METALS_ICP: GW 04; 6020_METALS_ICPMS: GW 01 ✓	6 Months	HNO3 to pH <2
B30NY8	N	W	–	1	4x40-mL aGs*	8260_VOA_GCMS_IX: COMMON ✓	14 Days	HCl or H2SO4 to pH <2/Cool <=6C
B30NY9	Y	W	4-23-15	1220	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
J.C. Fulton CHPRC		APR 23 2015 1140	R.A. Shepard/CHPRC		APR 23 2015 1140
R.A. Shepard/CHPRC		APR 23 2015 1400	FEDEX		
	FED EX		Jill Clark Jill Clarke		4-24-15 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 84795

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **W15-004-168**

Page 1 of 1

Collector	J.C. Fulton CHPRC	**Contact/Requester**	Karen Waters-Husted	**Telephone No.**	509-376-4650
SAF No.	W15-004	**Sampling Origin**	Hanford Site	**Purchase Order/Charge Code**	4/23/15 300071
Project Title	RCRA, APRIL 2015	**Logbook No.**	HNF-N-506 67/92	**Ice Chest No.**	GWS-~~411~~ 211
Shipped To (Lab)	TestAmerica St. Louis	**Method of Shipment**	Commercial Carrier	**Bill of Lading/Air Bill No.**	7734 4401 1013
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
B313Y1	N	W	4-23-15	1045	1x250-mL aG	9060_TOC: COMMON	28 Days	HCl or H2SO4 to pH <2/Cool <=6C
B313Y2	N	W	/	/	1x250-mL aG	9060_TOC: COMMON	28 Days	HCl or H2SO4 to pH <2/Cool <=6C
B313Y3	N	W	/	/	1x250-mL aG	9060_TOC: COMMON	28 Days	HCl or H2SO4 to pH <2/Cool <=6C
B313Y4	N	W	4-23-15	1045	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
J.C. Fulton CHPRC			APR 2 3 2015 1140	R.A. Shepard/CHPRC			APR 2 3 2015 1140
R.A. Shepard/CHPRC			APR 2 3 2015 1400	FEDEX			
FED EX				Jill Clarke	Jill Clarke		4.24.15 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)

CH2MHill Plateau Remediation Company 947795

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **X15-004-150**

Collector	J.C. Fulton CHPRC	**Contact/Requester**	WATERS-HUSTED, K	**Telephone No.**	376-4650
SAF No.	X15-004	**Sampling Origin**	HANFORD SITE	**Purchase Order/Charge Code**	4/23/15 GS 300071
Project Title	GW Sitewide Surv, FY15	**Logbook No.**	HNF-N-506 67/92	**Ice Chest No.**	GWS-3411
Shipped To (Lab)	TestAmerica St. Louis	**Method of Shipment**	Commercial Carrier	**Bill of Lading/Air Bill No.**	773444011013
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
B30HP2	N	W	4-23-15	0917	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.C. Fulton CHPRC			APR 23 2015 1140	R.A. Shepard/CHPRC			APR 23 2015 1140
R.A. Shepard/CHPRC			APR 23 2015 1400	FEDEX			
FED EX				Jill Clarke	Jill Clarke		4.24.15 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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IMPORTANT!
As a result of local restrictions in the Baltimore, Maryland metro area, unavoidable service delays are anticipated. Learn More

FedEx ® Tracking

773444011013

Ship (P/U) date
Thur 4/23/2015 3:24 pm
RICHLAND, WA US

Delivered
Signed for by: J.CLARKE

Actual delivery
Fri 4/24/2015 9:17 am
EARTH CITY, MO US

Travel History

Date/Time	Activity	Location
- 4/24/2015 - Friday		
9:17 am	Delivered	EARTH CITY, MO
7:09 am	On FedEx vehicle for delivery	EARTH CITY, MO
7:02 am	At local FedEx facility	EARTH CITY, MO
5:23 am	At destination sort facility	BERKELEY, MO
4:33 am	Departed FedEx location	MEMPHIS, TN
12:21 am	Arrived at FedEx location	MEMPHIS, TN
- 4/23/2015 - Thursday		
5:13 pm	Left FedEx origin facility	PASCO, WA
3:34 pm	Shipment information sent to FedEx	
3:24 pm	Picked up	PASCO, WA

Shipment Facts

Tracking number	773444011013	Service	FedEx Priority Overnight
Weight	53 lbs / 24.04 kgs	Dimensions	16x16x17 in
Delivered To	Shipping/Receiving	Total pieces	1
Total shipment weight	53 lbs / 24.04 kgs	Shipper reference	GWS-211
Packaging	Your Packaging	Special handling section	Deliver Weekday

© FedEx 1995-2015

Login Sample Receipt Checklist

Client: CH2M Hill Plateau Remediation Company

Job Number: 160-11532-1
SDG Number: SL1795

Login Number: 11532
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	0.7
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	

CH2MHill Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **S15-004-311**

Collector	J.C. Fulton CHPRC	**Contact/Requester**	Karen Waters-Husted	**Telephone No.**	509-376-4650
SAF No.	S15-004	**Sampling Origin**	Hanford Site	**Purchase Order/Charge Code**	300071
Project Title	CERCLA, APRIL 2015	**Logbook No.**	HNF-N-506 67/97	**Ice Chest No.**	GWS-116
Shipped To (Lab)	TestAmerica St. Louis	**Method of Shipment**	Commercial Carrier	**Bill of Lading/Air Bill No.**	773455032865
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
B30PC2	N	W	APR 23 2015	1356	1x500-mL G/P	310.1_ALKALINITY: GW 01 ✓	14 Days	Cool <=6C
B30PC2	N	W	↓	↓	1x500-mL G/P	6010_METALS_ICP: COMMON; 6010_METALS_ICP: GW 03 ✓	6 Months	HNO3 to pH <2
B30PC2	N	W			1x250-mL G/P	9012_CYANIDE: COMMON ✓	14 Days	NaOH to pH >=12/Cool <=6C
B30PC2	N	W			1x1-L aGs*	9020_TOX: COMMON ✓	28 Days	H2SO4 to pH <2/Cool <=6C
B30PC2	N	W			1x250-mL aG	9060_TOC: COMMON ✓	28 Days	HCl or H2SO4 to pH <2/Cool <=6C

	Print	Sign	Date/Time		Print	Sign	Date/Time
Relinquished By	J.C. Fulton CHPRC		APR 23 2015 1445	Received By	SSL#1		APR 23 2015 1445
Relinquished By	SSU-1		APR 24 2015 1030	Received By	CHRIS FULTON CHPRC		APR 24 2015 1030
Relinquished By	CHRIS FULTON CHPRC		APR 24 2015 1400	Received By	FEDEX		Date/Time
Relinquished By	FED EX		Date/Time	Received By	Brian Daniels	B	4/25/15 0840

Matrix *

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

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

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CH2MHill Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **S15-004-312**

Collector	F.M. Hall/CHPRC	**Contact/Requester**	Karen Waters-Husted	**Telephone No.**	509-376-4650
SAF No.	S15-004	**Sampling Origin**	Hanford Site	**Purchase Order/Charge Code**	300071
Project Title	CERCLA, APRIL 2015	**Logbook No.**	HNF-N-506 67 93	**Ice Chest No.**	GWS-116
Shipped To (Lab)	TestAmerica St. Louis	**Method of Shipment**	Commercial Carrier	**Bill of Lading/Air Bill No.**	773455032865
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
B30PC7	Y	W	4/24/15	0851	1x500-mL G/P	310.1_ALKALINITY: COMMON ✓	14 Days	Cool <=6C
B30PC7	Y	W	↓	↓	1x500-mL G/P	6010_METALS_ICP: GW 04; 6020_METALS_ICPMS: GW 01 ✓	6 Months	HNO3 to pH <2
B30PC5	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
F.M. Hall/CHPRC			APR 2 4 2015 0942	CHRIS FULTON CHPRC			APR 2 4 2015 0942
CHRIS FULTON CHPRC			APR 2 4 2015 1400	FEDEX			
FED EX				Brian Daniels			4/25/15 0840

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

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **S15-004-295**

Collector	D.L. Floyd/CHPRC	**Contact/Requester**	Karen Waters-Husted	**Telephone No.**	509-376-4650
SAF No.	S15-004	**Sampling Origin**	Hanford Site	**Purchase Order/Charge Code**	300071
Project Title	CERCLA, APRIL 2015	**Logbook No.**	HNF-N-506 75/10	**Ice Chest No.**	GWS-116
Shipped To (Lab)	TestAmerica St. Louis	**Method of Shipment**	Commercial Carrier	**Bill of Lading/Air Bill No.**	773455032865
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
B30P03	N	W	APR 24 2015	1209	1x500-mL G/P	310.1_ALKALINITY: GW 01 ✓	14 Days	Cool <=6C
B30P03	N	W	↓	↓	1x500-mL G/P	6010_METALS_ICP: COMMON; 6010_METALS_ICP: GW 03 ✓	6 Months	HNO3 to pH <2

Relinquished By D.L. Floyd/CHPRC (Print / Sign)	Date/Time APR 24 2015 1300	Received By K.C. Patterson CHPRC (Print / Sign)	Date/Time APR 24 2015 1300
Relinquished By K.C. Patterson CHPRC	Date/Time APR 24 2015 1400	Received By FEDEX	Date/Time
Relinquished By FED EX	Date/Time	Received By Brian Daniels	Date/Time 4/25/15 0840
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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CH2MHill Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **S15-004-296**

Collector	D.L. Floyd/CHPRC	**Contact/Requester**	Karen Waters-Husted	**Telephone No.**	509-376-4650
SAF No.	S15-004	**Sampling Origin**	Hanford Site	**Purchase Order/Charge Code**	300071
Project Title	CERCLA, APRIL 2015	**Logbook No.**	HNF-N-506 7510	**Ice Chest No.**	GWS-116
Shipped To (Lab)	TestAmerica St. Louis	**Method of Shipment**	Commercial Carrier	**Bill of Lading/Air Bill No.**	773455032865
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
B30P04	N	W	APR 24 2015	1209	1x500-mL G/P	310.1_ALKALINITY: GW 01 ✓	14 Days	Cool <=6C
B30P04	N	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
D.L. Floyd/CHPRC		APR 24 2015 1300	K.C. Patterson CHPRC		APR 24 2015 1300
K.C. Patterson CHPRC		APR 24 2015 1400	FEDEX		
	FED EX		Brian Daniels		4/25/15 0840

Matrix *

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

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

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CH2MHill Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **S15-004-297**

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Collector	D.L. Floyd/CHPRC	**Contact/Requester**	Karen Waters-Husted	**Telephone No.**	509-376-4650
SAF No.	S15-004	**Sampling Origin**	Hanford Site	**Purchase Order/Charge Code**	300071
Project Title	CERCLA, APRIL 2015	**Logbook No.**	HNF-N-506 759	**Ice Chest No.**	GWS-116
Shipped To (Lab)	TestAmerica St. Louis	**Method of Shipment**	Commercial Carrier	**Bill of Lading/Air Bill No.**	773455032865
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
B30P07	N	W	APR 24 2015	0953	1x500-mL G/P	310.1_ALKALINITY: GW 01 ✓	14 Days	Cool <=6C
B30P07	N	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
D.L. Floyd/CHPRC		APR 24 2015 1120	K.C. Patterson/CHPRC		APR 24 2015 1120
K.C. Patterson/CHPRC		APR 24 2015 1400	FEDEX		
FED EX			Brian Daniels		4/25/15 0840

Matrix *

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

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

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CH2MHill Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **S15-004-298**

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Collector	D.L. Floyd/CHPRC	**Contact/Requester**	Karen Waters-Husted	**Telephone No.**	509-376-4650
SAF No.	S15-004	**Sampling Origin**	Hanford Site	**Purchase Order/Charge Code**	300071
Project Title	CERCLA, APRIL 2015	**Logbook No.**	HNF-N-506 75/9&10	**Ice Chest No.**	GWS-116
Shipped To (Lab)	TestAmerica St. Louis	**Method of Shipment**	Commercial Carrier	**Bill of Lading/Air Bill No.**	773455032865
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
B30P13	N	W	APR 24 2015	1115	1x500-mL G/P	310.1_ALKALINITY: GW 01 ✓	14 Days	Cool <=6C
B30P13	N	W	↓	↓	1x500-mL G/P	6010_METALS_ICP: COMMON; 6010_METALS_ICP: GW 03 ✓	6 Months	HNO3 to pH <2

	Print	Sign	Date/Time		Print	Sign	Date/Time
Relinquished By	D.L. Floyd/CHPRC		APR 24 2015 1120	Received By	K.C. Patterson/CHPRC		APR 24 2015 1120
Relinquished By	K.C. Patterson/CHPRC		APR 24 2015 1400	Received By	FEDEX		Date/Time
Relinquished By	FED EX		Date/Time	Received By	Brian Daniels		4/25/15 0840
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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CH2MHill Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **S15-005-295**

Collector	F.M. Hall/CHPRC	**Contact/Requester**	Karen Waters-Husted	**Telephone No.**	509-376-4650
SAF No.	S15-005	**Sampling Origin**	Hanford Site	**Purchase Order/Charge Code**	300071
Project Title	SURV, MAY 2015	**Logbook No.**	HNF-N-506 6793	**Ice Chest No.**	GWS-116
Shipped To (Lab)	TestAmerica St. Louis	**Method of Shipment**	Commercial Carrier	**Bill of Lading/Air Bill No.**	773455032865
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 ☐

N/A

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B30YH7	N	W	4/24/15	1135	1x500-mL G/P	6010_METALS_ICP: GW 04; 6020_METALS_ICPMS: GW 01 ✓	6 Months	HNO3 to pH <2
B30YH9	Y	W	↓	↓	1x500-mL G/P	310.1_ALKALINITY: GW 01 ✓	14 Days	Cool <=6C
B30YH9	Y	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
	F.M. Hall/CHPRC		APR 24 2015 1230		K.C. Patterson/CHPRC		APR 24 2015 1230
Relinquished By			Date/Time	Received By			Date/Time
	K.C. Patterson/CHPRC		APR 24 2015 1400		FEDEX		
Relinquished By			Date/Time	Received By			Date/Time
	FED EX			Brian Daniels			4/25/15 0840
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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CH2MHill Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **S15-004-293**

Collector	F.M. Hall/CHPRC	**Contact/Requester**	Karen Waters-Husted	**Telephone No.**	509-376-4650
SAF No.	S15-004	**Sampling Origin**	Hanford Site	**Purchase Order/Charge Code**	300071
Project Title	CERCLA, APRIL 2015	**Logbook No.**	HNF-N-506 60993	**Ice Chest No.**	GWS-11L
Shipped To (Lab)	TestAmerica St. Louis	**Method of Shipment**	Commercial Carrier	**Bill of Lading/Air Bill No.**	773455032865
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
B30NX1	N	W	4/24/15	1036	1x500-mL G/P	6010_METALS_ICP: GW 04; 6020_METALS_ICPMS: GW 01 ✓	6 Months	HNO3 to pH <2
B30NX3	Y	W	↓	↓	1x500-mL G/P	310.1_ALKALINITY: GW 01 ✓	14 Days	Cool <=6C
B30NX3	Y	W	↓	↓	1x500-mL G/P	6010_METALS_ICP: GW 04; 6020_METALS_ICPMS: GW 01 ✓	6 Months	HNO3 to pH <2

Relinquished By F.M. Hall/CHPRC Print / Sign	Date/Time 1230 APR 24 2015	Received By K.C. Patterson/CHPRC Print / Sign	Date/Time 1230 APR 24 2015
Relinquished By K.C. Patterson/CHPRC	Date/Time APR 24 2015 1400	Received By FEDEX	Date/Time
Relinquished By FED EX	Date/Time	Received By Brian Daniels	Date/Time 4/25/15 0840
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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CH2MHill Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **S15-004-358**

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Collector	D.J. Woehle/CHPRC	**Contact/Requester**	Karen Waters-Husted	**Telephone No.**	509-376-4650
SAF No.	S15-004	**Sampling Origin**	Hanford Site	**Purchase Order/Charge Code**	300071
Project Title	CERCLA, APRIL 2015	**Logbook No.**	HNF-N-506 70/69	**Ice Chest No.**	GWS-116
Shipped To (Lab)	TestAmerica St. Louis	**Method of Shipment**	Commercial Carrier	**Bill of Lading/Air Bill No.**	773455032865
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
B313Y8	N	W	APR 24 2015	0950	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
D.J. Woehle/CHPRC	D.J. Woehle	APR 24 2015 1145	K.C. Patterson/CHPRC		APR 24 2015 1145
K.C. Patterson/CHPRC		APR 24 2015 1406	FEDEX		
FED EX			Brian Daniels		4/25/15 0840

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

PRINTED O 4/16/2015

A-6004-842 (REV 2)

IMPORTANT!
As a result of local restrictions in the Baltimore, Maryland metro area, unavoidable service delays are anticipated. Learn More

FedEx ® Tracking

773455032865

Ship (P/U) date
Fri 4/24/2015 3:22 pm

RICHLAND, WA US

Delivered
Signed for by: B BAR

Actual delivery
Sat 4/25/2015 8:38 am

EARTH CITY, MO US

Travel History

Date/Time	Activity	Location
- 4/25/2015 - Saturday		
8:38 am	Delivered	EARTH CITY, MO
7:51 am	On FedEx vehicle for delivery	EARTH CITY, MO
7:48 am	At local FedEx facility	EARTH CITY, MO
6:19 am	At destination sort facility	BERKELEY, MO
5:33 am	Departed FedEx location	MEMPHIS, TN
12:50 am	Arrived at FedEx location	MEMPHIS, TN
- 4/24/2015 - Friday		
5:08 pm	Left FedEx origin facility	PASCO, WA
4:15 pm	Shipment information sent to FedEx	
3:22 pm	Picked up	PASCO, WA

Shipment Facts

Tracking number	773455032865	Service	FedEx Priority Overnight
Weight	79 lbs / 35.83 kgs	Dimensions	28x16x16 in
Delivered To	Shipping/Receiving	Total pieces	1
Total shipment weight	79 lbs / 35.83 kgs	Shipper reference	gws-116
Packaging	Your Packaging	Special handling section	For Saturday Delivery

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

TestAmerica Job ID: 160-11430-1
SDG: SL1795

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.
O	LCS, LCSD: Recovery exceeds upper or lower control limits.

GC/MS VOA TICs

Qualifier	Qualifier Description
T	MS, MSD: Recovery exceeds upper or lower control limits.
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.
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.
C	The analyte was detected in both the sample and the assoicated QC blank, and the sample concentration was </= 5X the blank concentration.
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
C	The analyte was detected in both the sample and the assoicated QC blank, and the sample concentration was </= 5X the blank concentration.
M	Sample duplicate precision not met.

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)

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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: 160-11430-1
SDG: SL1795

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
7470A	Mercury (CVAA)	SW846	TAL SL
310.1	Alkalinity	MCAWW	TAL SL
9012B	Cyanide, Total andor Amenable	SW846	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: 160-11430-1
SDG: SL1795

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
160-11430-1	B30P91	Water	04/20/15 10:19	04/21/15 09:00
160-11430-2	B30P74	Water	04/20/15 11:55	04/21/15 09:00
160-11504-1	B30NT5	Water	04/23/15 09:17	04/24/15 09:20
160-11504-2	B30NY8	Water	04/23/15 12:20	04/24/15 09:20
160-11504-3	B30NY9	Water	04/23/15 12:20	04/24/15 09:20
160-11504-4	B313Y1	Water	04/23/15 10:45	04/24/15 09:20
160-11504-5	B313Y2	Water	04/23/15 10:45	04/24/15 09:20
160-11504-6	B313Y3	Water	04/23/15 10:45	04/24/15 09:20
160-11504-7	B313Y4	Water	04/23/15 10:45	04/24/15 09:20
160-11504-8	B30HP2	Water	04/23/15 09:17	04/24/15 09:20
160-11532-1	B30PC2	Water	04/23/15 13:56	04/25/15 08:40
160-11532-2	B30PC7	Water	04/24/15 08:51	04/25/15 08:40
160-11532-3	B30PC5	Water	04/24/15 08:51	04/25/15 08:40
160-11532-4	B30P03	Water	04/24/15 12:09	04/25/15 08:40
160-11532-5	B30P04	Water	04/24/15 12:09	04/25/15 08:40
160-11532-6	B30P07	Water	04/24/15 09:53	04/25/15 08:40
160-11532-7	B30P13	Water	04/24/15 11:15	04/25/15 08:40
160-11532-8	B30YH7	Water	04/24/15 11:35	04/25/15 08:40
160-11532-9	B30YH9	Water	04/24/15 11:35	04/25/15 08:40
160-11532-10	B30NX1	Water	04/24/15 10:36	04/25/15 08:40
160-11532-11	B30NX3	Water	04/24/15 10:36	04/25/15 08:40
160-11532-12	B313Y8	Water	04/24/15 09:50	04/25/15 08:40

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

Client Sample ID: B30NT5
Date Collected: 04/23/15 09:17
Date Received: 04/24/15 09:20
Lab Sample ID: 160-11504-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.070	U	1.0	0.070	ug/L			04/27/15 13:34	1
1,1,2-Trichloroethane	0.15	U	1.0	0.15	ug/L			04/27/15 13:34	1
1,1-Dichloroethane	0.070	U	1.0	0.070	ug/L			04/27/15 13:34	1
1,1-Dichloroethene	0.080	U	1.0	0.080	ug/L			04/27/15 13:34	1
1,2-Dichloroethane	0.10	U	1.0	0.10	ug/L			04/27/15 13:34	1
2-Butanone (MEK)	0.52	U	5.0	0.52	ug/L			04/27/15 13:34	1
4-Methyl-2-pentanone (MIBK)	0.12	U	5.0	0.12	ug/L			04/27/15 13:34	1
Acetone	0.34	U	2.0	0.34	ug/L			04/27/15 13:34	1
Benzene	0.060	U	1.0	0.060	ug/L			04/27/15 13:34	1
Carbon disulfide	0.050	U	1.0	0.050	ug/L			04/27/15 13:34	1
Carbon tetrachloride	0.13	U	1.0	0.13	ug/L			04/27/15 13:34	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			04/27/15 13:34	1
Chloroform	**0.13**	**J**	1.0	0.10	ug/L			04/27/15 13:34	1
Ethylbenzene	0.090	U	1.0	0.090	ug/L			04/27/15 13:34	1
Methylene Chloride	0.27	U	1.0	0.27	ug/L			04/27/15 13:34	1
Tetrachloroethene	0.18	U	1.0	0.18	ug/L			04/27/15 13:34	1
Toluene	0.070	U	1.0	0.070	ug/L			04/27/15 13:34	1
Trichloroethene	0.25	U	1.0	0.25	ug/L			04/27/15 13:34	1
Vinyl chloride	0.080	U	2.0	0.080	ug/L			04/27/15 13:34	1
Xylenes, Total	0.20	U	3.0	0.20	ug/L			04/27/15 13:34	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*2.9*	*N*	*ug/L*		*4.23*			*04/27/15 13:34*	*1*
Isopropyl alcohol	*13*	*T*	*ug/L*		*6.16*	*67-63-0*		*04/27/15 13:34*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*86*		*75 - 129*		*04/27/15 13:34*	*1*
4-Bromofluorobenzene (Surr)	*110*		*81 - 130*		*04/27/15 13:34*	*1*
Dibromofluoromethane (Surr)	*98*		*81 - 124*		*04/27/15 13:34*	*1*
Toluene-d8 (Surr)	*123*		*87 - 128*		*04/27/15 13:34*	*1*

Client Sample ID: B30NY8
Date Collected: 04/23/15 12:20
Date Received: 04/24/15 09:20
Lab Sample ID: 160-11504-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.090	U	1.0	0.090	ug/L			04/27/15 13:57	1
1,1,1-Trichloroethane	0.070	U	1.0	0.070	ug/L			04/27/15 13:57	1
1,1,2,2-Tetrachloroethane	0.10	U	1.0	0.10	ug/L			04/27/15 13:57	1
1,1,2-Trichloroethane	0.15	U	1.0	0.15	ug/L			04/27/15 13:57	1
1,1-Dichloroethane	0.070	U	1.0	0.070	ug/L			04/27/15 13:57	1
1,1-Dichloroethene	0.080	U	1.0	0.080	ug/L			04/27/15 13:57	1
1,2,3-Trichloropropane	0.15	U	1.0	0.15	ug/L			04/27/15 13:57	1
1,2-Dibromo-3-Chloropropane	0.41	U	1.0	0.41	ug/L			04/27/15 13:57	1
1,2-Dibromoethane (EDB)	0.13	U	1.0	0.13	ug/L			04/27/15 13:57	1
1,2-Dichloroethane	0.10	U	1.0	0.10	ug/L			04/27/15 13:57	1
1,2-Dichloroethene, Total	0.15	U	2.0	0.15	ug/L			04/27/15 13:57	1
1,2-Dichloropropane	0.10	U	1.0	0.10	ug/L			04/27/15 13:57	1
1,4-Dichlorobenzene	0.12	U	1.0	0.12	ug/L			04/27/15 13:57	1
1-Butanol	12	U	50	12	ug/L			04/27/15 13:57	1
2-Butanone (MEK)	0.52	U	5.0	0.52	ug/L			04/27/15 13:57	1

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

TestAmerica Job ID: 160-11430-1
SDG: SL1795

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

Client Sample ID: B30NY8
Date Collected: 04/23/15 12:20
Date Received: 04/24/15 09:20

Lab Sample ID: 160-11504-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	0.22	U	5.0	0.22	ug/L			04/27/15 13:57	1
4-Methyl-2-pentanone (MIBK)	0.12	U	5.0	0.12	ug/L			04/27/15 13:57	1
Acetone	0.34	U	2.0	0.34	ug/L			04/27/15 13:57	1
Acetonitrile	2.0	U	10	2.0	ug/L			04/27/15 13:57	1
Acrolein	2.8	U	10	2.8	ug/L			04/27/15 13:57	1
Acrylonitrile	0.58	U	10	0.58	ug/L			04/27/15 13:57	1
Allyl chloride	0.11	U	2.0	0.11	ug/L			04/27/15 13:57	1
Benzene	0.060	U	1.0	0.060	ug/L			04/27/15 13:57	1
Bromodichloromethane	0.090	U	1.0	0.090	ug/L			04/27/15 13:57	1
Bromoform	0.17	U	1.0	0.17	ug/L			04/27/15 13:57	1
Bromomethane	0.25	U	2.0	0.25	ug/L			04/27/15 13:57	1
Carbon disulfide	0.050	U	1.0	0.050	ug/L			04/27/15 13:57	1
Carbon tetrachloride	0.13	U	1.0	0.13	ug/L			04/27/15 13:57	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			04/27/15 13:57	1
Chloroethane	0.10	U	2.0	0.10	ug/L			04/27/15 13:57	1
Chloroform	0.10	U	1.0	0.10	ug/L			04/27/15 13:57	1
Chloromethane	0.080	U	2.0	0.080	ug/L			04/27/15 13:57	1
Chloroprene	0.10	U	1.0	0.10	ug/L			04/27/15 13:57	1
cis-1,2-Dichloroethylene	0.090	U	1.0	0.090	ug/L			04/27/15 13:57	1
cis-1,3-Dichloropropene	0.070	U	1.0	0.070	ug/L			04/27/15 13:57	1
Dibromochloromethane	0.13	U	1.0	0.13	ug/L			04/27/15 13:57	1
Dibromomethane	0.21	U	1.0	0.21	ug/L			04/27/15 13:57	1
Dichlorodifluoromethane	0.080	U	2.0	0.080	ug/L			04/27/15 13:57	1
Ethyl Cyanide	1.4	U	10	1.4	ug/L			04/27/15 13:57	1
Ethyl methacrylate	0.11	U	1.0	0.11	ug/L			04/27/15 13:57	1
Ethylbenzene	0.090	U	1.0	0.090	ug/L			04/27/15 13:57	1
Iodomethane	0.090	U	2.0	0.090	ug/L			04/27/15 13:57	1
Isobutyl alcohol	8.7	U	80	8.7	ug/L			04/27/15 13:57	1
Methacrylonitrile	0.50	U	10	0.50	ug/L			04/27/15 13:57	1
Methyl methacrylate	0.26	U	2.0	0.26	ug/L			04/27/15 13:57	1
Methylene Chloride	0.27	U	1.0	0.27	ug/L			04/27/15 13:57	1
Styrene	0.070	U	1.0	0.070	ug/L			04/27/15 13:57	1
Tetrachloroethene	0.18	U	1.0	0.18	ug/L			04/27/15 13:57	1
Tetrahydrofuran	1.1	U	10	1.1	ug/L			04/27/15 13:57	1
Toluene	0.070	U	1.0	0.070	ug/L			04/27/15 13:57	1
trans-1,2-Dichloroethylene	0.080	U	1.0	0.080	ug/L			04/27/15 13:57	1
trans-1,3-Dichloropropene	0.080	U	1.0	0.080	ug/L			04/27/15 13:57	1
trans-1,4-Dichloro-2-butene	0.29	U	2.0	0.29	ug/L			04/27/15 13:57	1
Trichloroethene	0.25	U	1.0	0.25	ug/L			04/27/15 13:57	1
Trichloromonofluoromethane	0.11	U O	1.0	0.11	ug/L			04/27/15 13:57	1
Vinyl acetate	0.18	U	2.0	0.18	ug/L			04/27/15 13:57	1
Vinyl chloride	0.080	U	2.0	0.080	ug/L			04/27/15 13:57	1
Xylenes, Total	0.20	U	3.0	0.20	ug/L			04/27/15 13:57	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*3.1*	*N*	*ug/L*		*4.25*			*04/27/15 13:57*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*85*		*75 - 129*		*04/27/15 13:57*	*1*
4-Bromofluorobenzene (Surr)	*106*		*81 - 130*		*04/27/15 13:57*	*1*

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

Client Sample ID: B30NY8
Date Collected: 04/23/15 12:20
Date Received: 04/24/15 09:20
Lab Sample ID: 160-11504-2
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*98*		*81 - 124*		*04/27/15 13:57*	*1*
Toluene-d8 (Surr)	*121*		*87 - 128*		*04/27/15 13:57*	*1*

Client Sample ID: B30HP2
Date Collected: 04/23/15 09:17
Date Received: 04/24/15 09:20
Lab Sample ID: 160-11504-8
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.070	U	1.0	0.070	ug/L			04/27/15 14:21	1
1,1,2-Trichloroethane	0.15	U	1.0	0.15	ug/L			04/27/15 14:21	1
1,1-Dichloroethane	0.070	U	1.0	0.070	ug/L			04/27/15 14:21	1
1,1-Dichloroethene	0.080	U	1.0	0.080	ug/L			04/27/15 14:21	1
1,2-Dichloroethane	0.10	U	1.0	0.10	ug/L			04/27/15 14:21	1
2-Butanone (MEK)	0.52	U	5.0	0.52	ug/L			04/27/15 14:21	1
4-Methyl-2-pentanone (MIBK)	0.12	U	5.0	0.12	ug/L			04/27/15 14:21	1
Acetone	0.34	U	2.0	0.34	ug/L			04/27/15 14:21	1
Benzene	0.060	U	1.0	0.060	ug/L			04/27/15 14:21	1
Carbon disulfide	0.050	U	1.0	0.050	ug/L			04/27/15 14:21	1
Carbon tetrachloride	0.13	U	1.0	0.13	ug/L			04/27/15 14:21	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			04/27/15 14:21	1
Chloroform	0.10	U	1.0	0.10	ug/L			04/27/15 14:21	1
Ethylbenzene	0.090	U	1.0	0.090	ug/L			04/27/15 14:21	1
Methylene Chloride	**4.0**		1.0	0.27	ug/L			04/27/15 14:21	1
Tetrachloroethene	0.18	U	1.0	0.18	ug/L			04/27/15 14:21	1
Toluene	0.070	U	1.0	0.070	ug/L			04/27/15 14:21	1
Trichloroethene	0.25	U	1.0	0.25	ug/L			04/27/15 14:21	1
Vinyl chloride	0.080	U	2.0	0.080	ug/L			04/27/15 14:21	1
Xylenes, Total	0.20	U	3.0	0.20	ug/L			04/27/15 14:21	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*3.0*	*N*	*ug/L*		*4.24*			*04/27/15 14:21*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*75 - 129*		*04/27/15 14:21*	*1*
4-Bromofluorobenzene (Surr)	*105*		*81 - 130*		*04/27/15 14:21*	*1*
Dibromofluoromethane (Surr)	*98*		*81 - 124*		*04/27/15 14:21*	*1*
Toluene-d8 (Surr)	*122*		*87 - 128*		*04/27/15 14:21*	*1*

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

Client Sample ID: B30NT5
Date Collected: 04/23/15 09:17
Date Received: 04/24/15 09:20
Lab Sample ID: 160-11504-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	0.94	U	9.4	0.94	ug/L		04/30/15 12:41	05/05/15 17:24	1
2,4-Dichlorophenol	0.94	U O	9.4	0.94	ug/L		04/30/15 12:41	05/05/15 17:24	1
2-Methylphenol	0.94	U	9.4	0.94	ug/L		04/30/15 12:41	05/05/15 17:24	1
2-Nitrophenol	1.4	U	9.4	1.4	ug/L		04/30/15 12:41	05/05/15 17:24	1
Bis(2-ethylhexyl) phthalate	1.7	U	9.4	1.7	ug/L		04/30/15 12:41	05/05/15 17:24	1
Naphthalene	0.94	U	9.4	0.94	ug/L		04/30/15 12:41	05/05/15 17:24	1
Pentachlorophenol	1.2	U	9.4	1.2	ug/L		04/30/15 12:41	05/05/15 17:24	1

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

Client Sample ID: B30NT5 — **Lab Sample ID: 160-11504-1**
Date Collected: 04/23/15 09:17 — **Matrix: Water**
Date Received: 04/24/15 09:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	1.9	U O	9.4	1.9	ug/L		04/30/15 12:41	05/05/15 17:24	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*				*04/30/15 12:41*	*05/05/15 17:24*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*86*		*47 - 103*	*04/30/15 12:41*	*05/05/15 17:24*	*1*
2-Fluorobiphenyl (Surr)	*79*		*30 - 99*	*04/30/15 12:41*	*05/05/15 17:24*	*1*
2-Fluorophenol (Surr)	*38*		*10 - 74*	*04/30/15 12:41*	*05/05/15 17:24*	*1*
Nitrobenzene-d5 (Surr)	*85*		*31 - 105*	*04/30/15 12:41*	*05/05/15 17:24*	*1*
Phenol-d5 (Surr)	*24*		*10 - 50*	*04/30/15 12:41*	*05/05/15 17:24*	*1*
Terphenyl-d14 (Surr)	*70*		*68 - 116*	*04/30/15 12:41*	*05/05/15 17:24*	*1*

Method: 6010C - Metals (ICP)

Client Sample ID: B30NT5 — **Lab Sample ID: 160-11504-1**
Date Collected: 04/23/15 09:17 — **Matrix: Water**
Date Received: 04/24/15 09:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	**32.7**	**B C**	50.0	7.2	ug/L		05/12/15 14:01	05/26/15 16:02	1
Calcium	**95200**		1000	54.2	ug/L		05/12/15 14:01	05/26/15 16:02	1
Iron	12.8	U	100	12.8	ug/L		05/12/15 14:01	05/26/15 16:02	1
Magnesium	**25800**		1000	50.5	ug/L		05/12/15 14:01	05/26/15 16:02	1
Potassium	**8930**		5000	456	ug/L		05/12/15 14:01	05/26/15 16:02	1
Sodium	**31600**		1000	105	ug/L		05/12/15 14:01	05/26/15 16:02	1
Vanadium	**12.6**	**B**	50.0	4.4	ug/L		05/12/15 14:01	05/26/15 16:02	1

Client Sample ID: B30NY8 — **Lab Sample ID: 160-11504-2**
Date Collected: 04/23/15 12:20 — **Matrix: Water**
Date Received: 04/24/15 09:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**44000**		1000	54.2	ug/L		05/12/15 14:01	05/26/15 16:28	1
Iron	**281**	**C**	100	12.8	ug/L		05/12/15 14:01	05/26/15 16:28	1
Magnesium	**12400**		1000	50.5	ug/L		05/12/15 14:01	05/26/15 16:28	1
Potassium	**3430**	**B**	5000	456	ug/L		05/12/15 14:01	05/26/15 16:28	1
Sodium	**12200**		1000	105	ug/L		05/12/15 14:01	05/26/15 16:28	1
Vanadium	**20.5**	**B**	50.0	4.4	ug/L		05/12/15 14:01	05/26/15 16:28	1
Boron	**18.0**	**B C**	50.0	7.2	ug/L		05/12/15 14:01	05/26/15 16:28	1

Client Sample ID: B30PC2 — **Lab Sample ID: 160-11532-1**
Date Collected: 04/23/15 13:56 — **Matrix: Water**
Date Received: 04/25/15 08:40

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	3.7	U	10.0	3.7	ug/L		05/12/15 14:01	05/26/15 16:36	1
Arsenic	**6.2**	**B**	10.0	1.8	ug/L		05/12/15 14:01	05/26/15 16:36	1
Barium	**22.3**	**B**	50.0	2.1	ug/L		05/12/15 14:01	05/26/15 16:36	1
Beryllium	0.28	U	5.0	0.28	ug/L		05/12/15 14:01	05/26/15 16:36	1
Cadmium	0.34	U	5.0	0.34	ug/L		05/12/15 14:01	05/26/15 16:36	1
Calcium	**35300**		1000	54.2	ug/L		05/12/15 14:01	05/26/15 16:36	1
Chromium	3.4	U	10.0	3.4	ug/L		05/12/15 14:01	05/26/15 16:36	1
Cobalt	2.7	U	50.0	2.7	ug/L		05/12/15 14:01	05/26/15 16:36	1

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

Client Sample ID: B30PC2
Date Collected: 04/23/15 13:56
Date Received: 04/25/15 08:40
Lab Sample ID: 160-11532-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	2.1	U	25.0	2.1	ug/L		05/12/15 14:01	05/26/15 16:36	1
Iron	**125**	**C**	100	12.8	ug/L		05/12/15 14:01	05/26/15 16:36	1
Magnesium	**9320**		1000	50.5	ug/L		05/12/15 14:01	05/26/15 16:36	1
Manganese	**1.5**	**B**	15.0	1.0	ug/L		05/12/15 14:01	05/26/15 16:36	1
Nickel	**4.8**	**B**	40.0	2.6	ug/L		05/12/15 14:01	05/26/15 16:36	1
Potassium	**6700**		5000	456	ug/L		05/12/15 14:01	05/26/15 16:36	1
Silver	0.99	U	10.0	0.99	ug/L		05/12/15 14:01	05/26/15 16:36	1
Sodium	**27100**		1000	105	ug/L		05/12/15 14:01	05/26/15 16:36	1
Strontium	**182**		5.0	0.24	ug/L		05/12/15 14:01	05/26/15 16:36	1
Vanadium	**21.0**	**B**	50.0	4.4	ug/L		05/12/15 14:01	05/26/15 16:36	1
Zinc	**179**		20.0	8.3	ug/L		05/12/15 14:01	05/26/15 16:36	1

Client Sample ID: B30PC5
Date Collected: 04/24/15 08:51
Date Received: 04/25/15 08:40
Lab Sample ID: 160-11532-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**27100**		1000	54.2	ug/L		05/12/15 14:01	05/26/15 16:43	1
Iron	**478**		100	12.8	ug/L		05/12/15 14:01	05/26/15 16:43	1
Magnesium	**9220**		1000	50.5	ug/L		05/12/15 14:01	05/26/15 16:43	1
Potassium	**4500**	**B**	5000	456	ug/L		05/12/15 14:01	05/26/15 16:43	1
Sodium	**5780**		1000	105	ug/L		05/12/15 14:01	05/26/15 16:43	1
Vanadium	**19.0**	**B**	50.0	4.4	ug/L		05/12/15 14:01	05/26/15 16:43	1
Boron	7.2	U	50.0	7.2	ug/L		05/12/15 14:01	05/26/15 16:43	1

Client Sample ID: B30P03
Date Collected: 04/24/15 12:09
Date Received: 04/25/15 08:40
Lab Sample ID: 160-11532-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	3.7	U	10.0	3.7	ug/L		05/12/15 14:01	05/26/15 16:47	1
Arsenic	**4.7**	**B**	10.0	1.8	ug/L		05/12/15 14:01	05/26/15 16:47	1
Barium	**62.8**		50.0	2.1	ug/L		05/12/15 14:01	05/26/15 16:47	1
Beryllium	0.28	U	5.0	0.28	ug/L		05/12/15 14:01	05/26/15 16:47	1
Cadmium	0.34	U	5.0	0.34	ug/L		05/12/15 14:01	05/26/15 16:47	1
Calcium	**67000**		1000	54.2	ug/L		05/12/15 14:01	05/26/15 16:47	1
Chromium	3.4	U	10.0	3.4	ug/L		05/12/15 14:01	05/26/15 16:47	1
Cobalt	2.7	U	50.0	2.7	ug/L		05/12/15 14:01	05/26/15 16:47	1
Copper	2.1	U	25.0	2.1	ug/L		05/12/15 14:01	05/26/15 16:47	1
Iron	**191**	**C**	100	12.8	ug/L		05/12/15 14:01	05/26/15 16:47	1
Magnesium	**15200**		1000	50.5	ug/L		05/12/15 14:01	05/26/15 16:47	1
Manganese	**5.0**	**B**	15.0	1.0	ug/L		05/12/15 14:01	05/26/15 16:47	1
Nickel	**4.4**	**B**	40.0	2.6	ug/L		05/12/15 14:01	05/26/15 16:47	1
Potassium	**6800**		5000	456	ug/L		05/12/15 14:01	05/26/15 16:47	1
Silver	0.99	U	10.0	0.99	ug/L		05/12/15 14:01	05/26/15 16:47	1
Sodium	**19200**		1000	105	ug/L		05/12/15 14:01	05/26/15 16:47	1
Strontium	**324**		5.0	0.24	ug/L		05/12/15 14:01	05/26/15 16:47	1
Vanadium	**9.8**	**B**	50.0	4.4	ug/L		05/12/15 14:01	05/26/15 16:47	1
Zinc	8.3	U	20.0	8.3	ug/L		05/12/15 14:01	05/26/15 16:47	1

Method: 6010C - Metals (ICP)

Client Sample ID: B30P04
Date Collected: 04/24/15 12:09
Date Received: 04/25/15 08:40
Lab Sample ID: 160-11532-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	3.7	U	10.0	3.7	ug/L		05/12/15 14:01	05/26/15 16:51	1
Arsenic	**4.9**	**B**	10.0	1.8	ug/L		05/12/15 14:01	05/26/15 16:51	1
Barium	**62.3**		50.0	2.1	ug/L		05/12/15 14:01	05/26/15 16:51	1
Beryllium	0.28	U	5.0	0.28	ug/L		05/12/15 14:01	05/26/15 16:51	1
Cadmium	0.34	U	5.0	0.34	ug/L		05/12/15 14:01	05/26/15 16:51	1
Calcium	**67300**		1000	54.2	ug/L		05/12/15 14:01	05/26/15 16:51	1
Chromium	**4.0**	**B**	10.0	3.4	ug/L		05/12/15 14:01	05/26/15 16:51	1
Cobalt	2.7	U	50.0	2.7	ug/L		05/12/15 14:01	05/26/15 16:51	1
Copper	2.1	U	25.0	2.1	ug/L		05/12/15 14:01	05/26/15 16:51	1
Iron	**211**	**C**	100	12.8	ug/L		05/12/15 14:01	05/26/15 16:51	1
Magnesium	**15000**		1000	50.5	ug/L		05/12/15 14:01	05/26/15 16:51	1
Manganese	**4.8**	**B**	15.0	1.0	ug/L		05/12/15 14:01	05/26/15 16:51	1
Nickel	**4.4**	**B**	40.0	2.6	ug/L		05/12/15 14:01	05/26/15 16:51	1
Potassium	**6750**		5000	456	ug/L		05/12/15 14:01	05/26/15 16:51	1
Silver	0.99	U	10.0	0.99	ug/L		05/12/15 14:01	05/26/15 16:51	1
Sodium	**19200**		1000	105	ug/L		05/12/15 14:01	05/26/15 16:51	1
Strontium	**322**		5.0	0.24	ug/L		05/12/15 14:01	05/26/15 16:51	1
Vanadium	**9.6**	**B**	50.0	4.4	ug/L		05/12/15 14:01	05/26/15 16:51	1
Zinc	8.3	U	20.0	8.3	ug/L		05/12/15 14:01	05/26/15 16:51	1

Client Sample ID: B30P07
Date Collected: 04/24/15 09:53
Date Received: 04/25/15 08:40
Lab Sample ID: 160-11532-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	3.7	U	10.0	3.7	ug/L		05/12/15 14:01	05/26/15 16:55	1
Arsenic	**5.1**	**B**	10.0	1.8	ug/L		05/12/15 14:01	05/26/15 16:55	1
Barium	**43.9**	**B**	50.0	2.1	ug/L		05/12/15 14:01	05/26/15 16:55	1
Beryllium	0.28	U	5.0	0.28	ug/L		05/12/15 14:01	05/26/15 16:55	1
Cadmium	0.34	U	5.0	0.34	ug/L		05/12/15 14:01	05/26/15 16:55	1
Calcium	**50600**		1000	54.2	ug/L		05/12/15 14:01	05/26/15 16:55	1
Chromium	3.4	U	10.0	3.4	ug/L		05/12/15 14:01	05/26/15 16:55	1
Cobalt	2.7	U	50.0	2.7	ug/L		05/12/15 14:01	05/26/15 16:55	1
Copper	2.1	U	25.0	2.1	ug/L		05/12/15 14:01	05/26/15 16:55	1
Iron	**245**	**C**	100	12.8	ug/L		05/12/15 14:01	05/26/15 16:55	1
Magnesium	**11900**		1000	50.5	ug/L		05/12/15 14:01	05/26/15 16:55	1
Manganese	**5.7**	**B**	15.0	1.0	ug/L		05/12/15 14:01	05/26/15 16:55	1
Nickel	**7.2**	**B**	40.0	2.6	ug/L		05/12/15 14:01	05/26/15 16:55	1
Potassium	**5680**		5000	456	ug/L		05/12/15 14:01	05/26/15 16:55	1
Silver	0.99	U	10.0	0.99	ug/L		05/12/15 14:01	05/26/15 16:55	1
Sodium	**14100**		1000	105	ug/L		05/12/15 14:01	05/26/15 16:55	1
Strontium	**251**		5.0	0.24	ug/L		05/12/15 14:01	05/26/15 16:55	1
Vanadium	**13.9**	**B**	50.0	4.4	ug/L		05/12/15 14:01	05/26/15 16:55	1
Zinc	8.3	U	20.0	8.3	ug/L		05/12/15 14:01	05/26/15 16:55	1

Client Sample ID: B30P13
Date Collected: 04/24/15 11:15
Date Received: 04/25/15 08:40
Lab Sample ID: 160-11532-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	3.7	U	10.0	3.7	ug/L		05/12/15 14:01	05/26/15 17:10	1
Arsenic	**5.7**	**B**	10.0	1.8	ug/L		05/12/15 14:01	05/26/15 17:10	1

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

Client Sample ID: B30P13
Date Collected: 04/24/15 11:15
Date Received: 04/25/15 08:40
Lab Sample ID: 160-11532-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**54.7**		50.0	2.1	ug/L		05/12/15 14:01	05/26/15 17:10	1
Beryllium	0.28	U	5.0	0.28	ug/L		05/12/15 14:01	05/26/15 17:10	1
Cadmium	0.34	U	5.0	0.34	ug/L		05/12/15 14:01	05/26/15 17:10	1
Calcium	**61200**		1000	54.2	ug/L		05/12/15 14:01	05/26/15 17:10	1
Chromium	**7.4**	**B**	10.0	3.4	ug/L		05/12/15 14:01	05/26/15 17:10	1
Cobalt	2.7	U	50.0	2.7	ug/L		05/12/15 14:01	05/26/15 17:10	1
Copper	2.1	U	25.0	2.1	ug/L		05/12/15 14:01	05/26/15 17:10	1
Iron	**53.4**	**B C**	100	12.8	ug/L		05/12/15 14:01	05/26/15 17:10	1
Magnesium	**13700**		1000	50.5	ug/L		05/12/15 14:01	05/26/15 17:10	1
Manganese	**1.9**	**B**	15.0	1.0	ug/L		05/12/15 14:01	05/26/15 17:10	1
Nickel	**4.1**	**B**	40.0	2.6	ug/L		05/12/15 14:01	05/26/15 17:10	1
Potassium	**6440**		5000	456	ug/L		05/12/15 14:01	05/26/15 17:10	1
Silver	0.99	U	10.0	0.99	ug/L		05/12/15 14:01	05/26/15 17:10	1
Sodium	**18100**		1000	105	ug/L		05/12/15 14:01	05/26/15 17:10	1
Strontium	**281**		5.0	0.24	ug/L		05/12/15 14:01	05/26/15 17:10	1
Vanadium	**14.5**	**B**	50.0	4.4	ug/L		05/12/15 14:01	05/26/15 17:10	1
Zinc	8.3	U	20.0	8.3	ug/L		05/12/15 14:01	05/26/15 17:10	1

Client Sample ID: B30YH7
Date Collected: 04/24/15 11:35
Date Received: 04/25/15 08:40
Lab Sample ID: 160-11532-8
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**65200**		1000	54.2	ug/L		05/12/15 14:01	05/26/15 17:14	1
Iron	12.8	U	100	12.8	ug/L		05/12/15 14:01	05/26/15 17:14	1
Magnesium	**7910**		1000	50.5	ug/L		05/12/15 14:01	05/26/15 17:14	1
Potassium	**3610**	**B**	5000	456	ug/L		05/12/15 14:01	05/26/15 17:14	1
Sodium	**26400**		1000	105	ug/L		05/12/15 14:01	05/26/15 17:14	1
Vanadium	**4.5**	**B**	50.0	4.4	ug/L		05/12/15 14:01	05/26/15 17:14	1
Boron	**17.6**	**B C**	50.0	7.2	ug/L		05/12/15 14:01	05/26/15 17:14	1

Client Sample ID: B30NX1
Date Collected: 04/24/15 10:36
Date Received: 04/25/15 08:40
Lab Sample ID: 160-11532-10
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**39500**		1000	54.2	ug/L		05/12/15 14:01	05/26/15 17:22	1
Iron	**22.1**	**B C**	100	12.8	ug/L		05/12/15 14:01	05/26/15 17:22	1
Magnesium	**8350**		1000	50.5	ug/L		05/12/15 14:01	05/26/15 17:22	1
Potassium	**1600**	**B**	5000	456	ug/L		05/12/15 14:01	05/26/15 17:22	1
Sodium	**6030**		1000	105	ug/L		05/12/15 14:01	05/26/15 17:22	1
Vanadium	4.4	U	50.0	4.4	ug/L		05/12/15 14:01	05/26/15 17:22	1
Boron	7.2	U	50.0	7.2	ug/L		05/12/15 14:01	05/26/15 17:22	1

Method: 6010C - Metals (ICP) - Dissolved

Client Sample ID: B30NY9
Date Collected: 04/23/15 12:20
Date Received: 04/24/15 09:20
Lab Sample ID: 160-11504-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	**11.8**	**B C**	50.0	7.2	ug/L		05/12/15 14:01	05/26/15 16:32	1
Calcium	**44500**		1000	54.2	ug/L		05/12/15 14:01	05/26/15 16:32	1

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

Client Sample ID: B30NY9
Date Collected: 04/23/15 12:20
Date Received: 04/24/15 09:20
Lab Sample ID: 160-11504-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	15.9	B C	100	12.8	ug/L		05/12/15 14:01	05/26/15 16:32	1
Magnesium	12500		1000	50.5	ug/L		05/12/15 14:01	05/26/15 16:32	1
Potassium	3470	B	5000	456	ug/L		05/12/15 14:01	05/26/15 16:32	1
Sodium	12300		1000	105	ug/L		05/12/15 14:01	05/26/15 16:32	1
Vanadium	19.7	B	50.0	4.4	ug/L		05/12/15 14:01	05/26/15 16:32	1

Client Sample ID: B30PC7
Date Collected: 04/24/15 08:51
Date Received: 04/25/15 08:40
Lab Sample ID: 160-11532-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	7.2	U	50.0	7.2	ug/L		05/12/15 14:01	05/26/15 16:39	1
Calcium	25700		1000	54.2	ug/L		05/12/15 14:01	05/26/15 16:39	1
Iron	219	C	100	12.8	ug/L		05/12/15 14:01	05/26/15 16:39	1
Magnesium	8840		1000	50.5	ug/L		05/12/15 14:01	05/26/15 16:39	1
Potassium	4380	B	5000	456	ug/L		05/12/15 14:01	05/26/15 16:39	1
Sodium	5800		1000	105	ug/L		05/12/15 14:01	05/26/15 16:39	1
Vanadium	18.7	B	50.0	4.4	ug/L		05/12/15 14:01	05/26/15 16:39	1

Client Sample ID: B30YH9
Date Collected: 04/24/15 11:35
Date Received: 04/25/15 08:40
Lab Sample ID: 160-11532-9
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	16.5	B C	50.0	7.2	ug/L		05/12/15 14:01	05/26/15 17:18	1
Calcium	64000		1000	54.2	ug/L		05/12/15 14:01	05/26/15 17:18	1
Iron	12.8	U	100	12.8	ug/L		05/12/15 14:01	05/26/15 17:18	1
Magnesium	7920		1000	50.5	ug/L		05/12/15 14:01	05/26/15 17:18	1
Potassium	3670	B	5000	456	ug/L		05/12/15 14:01	05/26/15 17:18	1
Sodium	27100		1000	105	ug/L		05/12/15 14:01	05/26/15 17:18	1
Vanadium	4.4	U	50.0	4.4	ug/L		05/12/15 14:01	05/26/15 17:18	1

Client Sample ID: B30NX3
Date Collected: 04/24/15 10:36
Date Received: 04/25/15 08:40
Lab Sample ID: 160-11532-11
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	7.2	U	50.0	7.2	ug/L		05/12/15 14:01	05/26/15 17:26	1
Calcium	39800		1000	54.2	ug/L		05/12/15 14:01	05/26/15 17:26	1
Iron	14.8	B C	100	12.8	ug/L		05/12/15 14:01	05/26/15 17:26	1
Magnesium	8430		1000	50.5	ug/L		05/12/15 14:01	05/26/15 17:26	1
Potassium	1650	B	5000	456	ug/L		05/12/15 14:01	05/26/15 17:26	1
Sodium	6080		1000	105	ug/L		05/12/15 14:01	05/26/15 17:26	1
Vanadium	4.4	U	50.0	4.4	ug/L		05/12/15 14:01	05/26/15 17:26	1

Method: 6020A - Metals (ICP/MS)

Client Sample ID: B30NT5
Date Collected: 04/23/15 09:17
Date Received: 04/24/15 09:20
Lab Sample ID: 160-11504-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	43.6	C	30.0	17.3	ug/L		05/12/15 14:06	05/20/15 18:33	2
Antimony	1.7	U	5.0	1.7	ug/L		05/12/15 14:06	05/20/15 18:33	2

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

Client Sample ID: B30NT5
Date Collected: 04/23/15 09:17
Date Received: 04/24/15 09:20
Lab Sample ID: 160-11504-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**3.5**	**B**	10.0	1.2	ug/L		05/12/15 14:06	05/20/15 18:33	2
Barium	**74.3**		2.0	0.22	ug/L		05/12/15 14:06	05/20/15 18:33	2
Beryllium	0.35	U	0.50	0.35	ug/L		05/12/15 14:06	05/20/15 18:33	2
Cadmium	0.10	U	0.50	0.10	ug/L		05/12/15 14:06	05/20/15 18:33	2
Chromium	**2.7**	**B**	10.0	1.0	ug/L		05/12/15 14:06	05/20/15 18:33	2
Cobalt	0.22	U	2.0	0.22	ug/L		05/12/15 14:06	05/20/15 18:33	2
Copper	**3.3**		1.0	0.68	ug/L		05/12/15 14:06	05/20/15 18:33	2
Lead	**0.60**	**B**	3.0	0.17	ug/L		05/12/15 14:06	05/20/15 18:33	2
Manganese	0.88	U	2.0	0.88	ug/L		05/12/15 14:06	05/20/15 18:33	2
Molybdenum	**6.1**		5.0	1.0	ug/L		05/12/15 14:06	05/20/15 18:33	2
Nickel	0.80	U	5.0	0.80	ug/L		05/12/15 14:06	05/20/15 18:33	2
Selenium	**7.8**		5.0	1.6	ug/L		05/12/15 14:06	05/20/15 18:33	2
Silver	0.82	U	2.0	0.82	ug/L		05/12/15 14:06	05/20/15 18:33	2
Strontium	**398**		5.0	0.060	ug/L		05/12/15 14:06	05/20/15 18:33	2
Thallium	0.55	U	2.0	0.55	ug/L		05/12/15 14:06	05/20/15 18:33	2
Thorium	0.55	U	2.0	0.55	ug/L		05/12/15 14:06	05/20/15 18:33	2
Tin	1.1	U	2.0	1.1	ug/L		05/12/15 14:06	05/20/15 18:33	2
Uranium	**42.0**		1.0	0.23	ug/L		05/12/15 14:06	05/20/15 18:33	2
Zinc	**64.9**		10.0	9.3	ug/L		05/12/15 14:06	05/20/15 18:33	2

Client Sample ID: B30NY8
Date Collected: 04/23/15 12:20
Date Received: 04/24/15 09:20
Lab Sample ID: 160-11504-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	17.3	U	30.0	17.3	ug/L		05/12/15 14:06	05/20/15 19:00	2
Antimony	1.7	U	5.0	1.7	ug/L		05/12/15 14:06	05/20/15 19:00	2
Arsenic	**5.0**	**B**	10.0	1.2	ug/L		05/12/15 14:06	05/20/15 19:00	2
Barium	**24.2**		2.0	0.22	ug/L		05/12/15 14:06	05/20/15 19:00	2
Beryllium	0.35	U	0.50	0.35	ug/L		05/12/15 14:06	05/20/15 19:00	2
Cadmium	0.10	U	0.50	0.10	ug/L		05/12/15 14:06	05/20/15 19:00	2
Chromium	**3.7**	**B**	10.0	1.0	ug/L		05/12/15 14:06	05/20/15 19:00	2
Cobalt	0.22	U	2.0	0.22	ug/L		05/12/15 14:06	05/20/15 19:00	2
Copper	0.68	U	1.0	0.68	ug/L		05/12/15 14:06	05/20/15 19:00	2
Lead	0.17	U	3.0	0.17	ug/L		05/12/15 14:06	05/20/15 19:00	2
Manganese	**3.0**		2.0	0.88	ug/L		05/12/15 14:06	05/20/15 19:00	2
Molybdenum	**2.6**	**B**	5.0	1.0	ug/L		05/12/15 14:06	05/20/15 19:00	2
Nickel	0.80	U	5.0	0.80	ug/L		05/12/15 14:06	05/20/15 19:00	2
Selenium	**3.1**	**B**	5.0	1.6	ug/L		05/12/15 14:06	05/20/15 19:00	2
Silver	0.82	U	2.0	0.82	ug/L		05/12/15 14:06	05/20/15 19:00	2
Strontium	**172**		5.0	0.060	ug/L		05/12/15 14:06	05/20/15 19:00	2
Thallium	**0.56**	**B**	2.0	0.55	ug/L		05/12/15 14:06	05/20/15 19:00	2
Thorium	0.55	U	2.0	0.55	ug/L		05/12/15 14:06	05/20/15 19:00	2
Tin	1.1	U	2.0	1.1	ug/L		05/12/15 14:06	05/20/15 19:00	2
Uranium	**1.8**		1.0	0.23	ug/L		05/12/15 14:06	05/20/15 19:00	2
Zinc	9.3	U	10.0	9.3	ug/L		05/12/15 14:06	05/20/15 19:00	2

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

TestAmerica Job ID: 160-11430-1
SDG: SL1795

Method: 6020A - Metals (ICP/MS)

Client Sample ID: B30PC5
Date Collected: 04/24/15 08:51
Date Received: 04/25/15 08:40

Lab Sample ID: 160-11532-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**102**	**C**	30.0	17.3	ug/L		05/12/15 14:06	05/20/15 19:20	2
Antimony	1.7	U	5.0	1.7	ug/L		05/12/15 14:06	05/20/15 19:20	2
Arsenic	**3.4**	**B**	10.0	1.2	ug/L		05/12/15 14:06	05/20/15 19:20	2
Barium	**69.1**		2.0	0.22	ug/L		05/12/15 14:06	05/20/15 19:20	2
Beryllium	0.35	U	0.50	0.35	ug/L		05/12/15 14:06	05/20/15 19:20	2
Cadmium	0.10	U	0.50	0.10	ug/L		05/12/15 14:06	05/20/15 19:20	2
Chromium	**1.5**	**B**	10.0	1.0	ug/L		05/12/15 14:06	05/20/15 19:20	2
Cobalt	0.22	U	2.0	0.22	ug/L		05/12/15 14:06	05/20/15 19:20	2
Copper	**1.2**		1.0	0.68	ug/L		05/12/15 14:06	05/20/15 19:20	2
Lead	0.17	U	3.0	0.17	ug/L		05/12/15 14:06	05/20/15 19:20	2
Manganese	**22.0**		2.0	0.88	ug/L		05/12/15 14:06	05/20/15 19:20	2
Molybdenum	**1.6**	**B**	5.0	1.0	ug/L		05/12/15 14:06	05/20/15 19:20	2
Nickel	**1.0**	**B**	5.0	0.80	ug/L		05/12/15 14:06	05/20/15 19:20	2
Selenium	1.6	U	5.0	1.6	ug/L		05/12/15 14:06	05/20/15 19:20	2
Silver	0.82	U	2.0	0.82	ug/L		05/12/15 14:06	05/20/15 19:20	2
Strontium	**183**		5.0	0.060	ug/L		05/12/15 14:06	05/20/15 19:20	2
Thallium	0.55	U	2.0	0.55	ug/L		05/12/15 14:06	05/20/15 19:20	2
Thorium	0.55	U	2.0	0.55	ug/L		05/12/15 14:06	05/20/15 19:20	2
Tin	1.1	U	2.0	1.1	ug/L		05/12/15 14:06	05/20/15 19:20	2
Uranium	**1.0**		1.0	0.23	ug/L		05/12/15 14:06	05/20/15 19:20	2
Zinc	**9.5**	**B**	10.0	9.3	ug/L		05/12/15 14:06	05/20/15 19:20	2

Client Sample ID: B30YH7
Date Collected: 04/24/15 11:35
Date Received: 04/25/15 08:40

Lab Sample ID: 160-11532-8
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	17.3	U	30.0	17.3	ug/L		05/12/15 14:06	05/20/15 19:27	2
Antimony	1.7	U	5.0	1.7	ug/L		05/12/15 14:06	05/20/15 19:27	2
Arsenic	**2.7**	**B**	10.0	1.2	ug/L		05/12/15 14:06	05/20/15 19:27	2
Barium	**35.0**		2.0	0.22	ug/L		05/12/15 14:06	05/20/15 19:27	2
Beryllium	0.35	U	0.50	0.35	ug/L		05/12/15 14:06	05/20/15 19:27	2
Cadmium	0.10	U	0.50	0.10	ug/L		05/12/15 14:06	05/20/15 19:27	2
Chromium	**2.0**	**B**	10.0	1.0	ug/L		05/12/15 14:06	05/20/15 19:27	2
Cobalt	0.22	U	2.0	0.22	ug/L		05/12/15 14:06	05/20/15 19:27	2
Copper	0.68	U	1.0	0.68	ug/L		05/12/15 14:06	05/20/15 19:27	2
Lead	0.17	U	3.0	0.17	ug/L		05/12/15 14:06	05/20/15 19:27	2
Manganese	0.88	U	2.0	0.88	ug/L		05/12/15 14:06	05/20/15 19:27	2
Molybdenum	**2.1**	**B**	5.0	1.0	ug/L		05/12/15 14:06	05/20/15 19:27	2
Nickel	0.80	U	5.0	0.80	ug/L		05/12/15 14:06	05/20/15 19:27	2
Selenium	1.6	U	5.0	1.6	ug/L		05/12/15 14:06	05/20/15 19:27	2
Silver	0.82	U	2.0	0.82	ug/L		05/12/15 14:06	05/20/15 19:27	2
Strontium	**282**		5.0	0.060	ug/L		05/12/15 14:06	05/20/15 19:27	2
Thallium	0.55	U	2.0	0.55	ug/L		05/12/15 14:06	05/20/15 19:27	2
Thorium	0.55	U	2.0	0.55	ug/L		05/12/15 14:06	05/20/15 19:27	2
Tin	1.1	U	2.0	1.1	ug/L		05/12/15 14:06	05/20/15 19:27	2
Uranium	**1.2**		1.0	0.23	ug/L		05/12/15 14:06	05/20/15 19:27	2
Zinc	9.3	U	10.0	9.3	ug/L		05/12/15 14:06	05/20/15 19:27	2

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

TestAmerica Job ID: 160-11430-1
SDG: SL1795

Method: 6020A - Metals (ICP/MS)

Client Sample ID: B30NX1
Date Collected: 04/24/15 10:36
Date Received: 04/25/15 08:40

Lab Sample ID: 160-11532-10
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**30.2**	**C**	30.0	17.3	ug/L		05/12/15 14:06	05/20/15 20:00	2
Antimony	1.7	U	5.0	1.7	ug/L		05/12/15 14:06	05/20/15 20:00	2
Arsenic	**1.2**	**B**	10.0	1.2	ug/L		05/12/15 14:06	05/20/15 20:00	2
Barium	**39.6**		2.0	0.22	ug/L		05/12/15 14:06	05/20/15 20:00	2
Beryllium	0.35	U	0.50	0.35	ug/L		05/12/15 14:06	05/20/15 20:00	2
Cadmium	0.10	U	0.50	0.10	ug/L		05/12/15 14:06	05/20/15 20:00	2
Chromium	**4.9**	**B**	10.0	1.0	ug/L		05/12/15 14:06	05/20/15 20:00	2
Cobalt	0.22	U	2.0	0.22	ug/L		05/12/15 14:06	05/20/15 20:00	2
Copper	**0.72**	**B**	1.0	0.68	ug/L		05/12/15 14:06	05/20/15 20:00	2
Lead	0.17	U	3.0	0.17	ug/L		05/12/15 14:06	05/20/15 20:00	2
Manganese	0.88	U	2.0	0.88	ug/L		05/12/15 14:06	05/20/15 20:00	2
Molybdenum	**1.1**	**B**	5.0	1.0	ug/L		05/12/15 14:06	05/20/15 20:00	2
Nickel	**1.7**	**B**	5.0	0.80	ug/L		05/12/15 14:06	05/20/15 20:00	2
Selenium	1.6	U	5.0	1.6	ug/L		05/12/15 14:06	05/20/15 20:00	2
Silver	0.82	U	2.0	0.82	ug/L		05/12/15 14:06	05/20/15 20:00	2
Strontium	**178**		5.0	0.060	ug/L		05/12/15 14:06	05/20/15 20:00	2
Thallium	0.55	U	2.0	0.55	ug/L		05/12/15 14:06	05/20/15 20:00	2
Thorium	0.55	U	2.0	0.55	ug/L		05/12/15 14:06	05/20/15 20:00	2
Tin	1.1	U	2.0	1.1	ug/L		05/12/15 14:06	05/20/15 20:00	2
Uranium	**1.6**		1.0	0.23	ug/L		05/12/15 14:06	05/20/15 20:00	2
Zinc	**9.6**	**B**	10.0	9.3	ug/L		05/12/15 14:06	05/20/15 20:00	2

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

Client Sample ID: B30NY9
Date Collected: 04/23/15 12:20
Date Received: 04/24/15 09:20

Lab Sample ID: 160-11504-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	17.3	U	30.0	17.3	ug/L		05/12/15 14:06	05/20/15 19:06	2
Antimony	1.7	U	5.0	1.7	ug/L		05/12/15 14:06	05/20/15 19:06	2
Arsenic	**4.9**	**B**	10.0	1.2	ug/L		05/12/15 14:06	05/20/15 19:06	2
Barium	**24.9**		2.0	0.22	ug/L		05/12/15 14:06	05/20/15 19:06	2
Beryllium	0.35	U	0.50	0.35	ug/L		05/12/15 14:06	05/20/15 19:06	2
Cadmium	0.10	U	0.50	0.10	ug/L		05/12/15 14:06	05/20/15 19:06	2
Chromium	**3.7**	**B**	10.0	1.0	ug/L		05/12/15 14:06	05/20/15 19:06	2
Cobalt	0.22	U	2.0	0.22	ug/L		05/12/15 14:06	05/20/15 19:06	2
Copper	**0.73**	**B**	1.0	0.68	ug/L		05/12/15 14:06	05/20/15 19:06	2
Lead	0.17	U	3.0	0.17	ug/L		05/12/15 14:06	05/20/15 19:06	2
Manganese	**1.5**	**B**	2.0	0.88	ug/L		05/12/15 14:06	05/20/15 19:06	2
Molybdenum	**2.7**	**B**	5.0	1.0	ug/L		05/12/15 14:06	05/20/15 19:06	2
Nickel	0.80	U	5.0	0.80	ug/L		05/12/15 14:06	05/20/15 19:06	2
Selenium	**2.9**	**B**	5.0	1.6	ug/L		05/12/15 14:06	05/20/15 19:06	2
Silver	0.82	U	2.0	0.82	ug/L		05/12/15 14:06	05/20/15 19:06	2
Strontium	**176**		5.0	0.060	ug/L		05/12/15 14:06	05/20/15 19:06	2
Thallium	0.55	U	2.0	0.55	ug/L		05/12/15 14:06	05/20/15 19:06	2
Thorium	0.55	U	2.0	0.55	ug/L		05/12/15 14:06	05/20/15 19:06	2
Tin	1.1	U	2.0	1.1	ug/L		05/12/15 14:06	05/20/15 19:06	2
Uranium	**1.8**		1.0	0.23	ug/L		05/12/15 14:06	05/20/15 19:06	2
Zinc	9.3	U	10.0	9.3	ug/L		05/12/15 14:06	05/20/15 19:06	2

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

TestAmerica Job ID: 160-11430-1
SDG: SL1795

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

Client Sample ID: B30PC7
Date Collected: 04/24/15 08:51
Date Received: 04/25/15 08:40

Lab Sample ID: 160-11532-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	17.3	U	30.0	17.3	ug/L		05/12/15 14:06	05/20/15 19:13	2
Antimony	1.7	U	5.0	1.7	ug/L		05/12/15 14:06	05/20/15 19:13	2
Arsenic	**3.4**	**B**	10.0	1.2	ug/L		05/12/15 14:06	05/20/15 19:13	2
Barium	**69.0**		2.0	0.22	ug/L		05/12/15 14:06	05/20/15 19:13	2
Beryllium	0.35	U	0.50	0.35	ug/L		05/12/15 14:06	05/20/15 19:13	2
Cadmium	0.10	U	0.50	0.10	ug/L		05/12/15 14:06	05/20/15 19:13	2
Chromium	**1.3**	**B**	10.0	1.0	ug/L		05/12/15 14:06	05/20/15 19:13	2
Cobalt	0.22	U	2.0	0.22	ug/L		05/12/15 14:06	05/20/15 19:13	2
Copper	0.68	U	1.0	0.68	ug/L		05/12/15 14:06	05/20/15 19:13	2
Lead	0.17	U	3.0	0.17	ug/L		05/12/15 14:06	05/20/15 19:13	2
Manganese	**11.3**		2.0	0.88	ug/L		05/12/15 14:06	05/20/15 19:13	2
Molybdenum	**1.7**	**B**	5.0	1.0	ug/L		05/12/15 14:06	05/20/15 19:13	2
Nickel	0.80	U	5.0	0.80	ug/L		05/12/15 14:06	05/20/15 19:13	2
Selenium	1.6	U	5.0	1.6	ug/L		05/12/15 14:06	05/20/15 19:13	2
Silver	0.82	U	2.0	0.82	ug/L		05/12/15 14:06	05/20/15 19:13	2
Strontium	**186**		5.0	0.060	ug/L		05/12/15 14:06	05/20/15 19:13	2
Thallium	0.55	U	2.0	0.55	ug/L		05/12/15 14:06	05/20/15 19:13	2
Thorium	0.55	U	2.0	0.55	ug/L		05/12/15 14:06	05/20/15 19:13	2
Tin	1.1	U	2.0	1.1	ug/L		05/12/15 14:06	05/20/15 19:13	2
Uranium	**1.0**		1.0	0.23	ug/L		05/12/15 14:06	05/20/15 19:13	2
Zinc	9.3	U	10.0	9.3	ug/L		05/12/15 14:06	05/20/15 19:13	2

Client Sample ID: B30YH9
Date Collected: 04/24/15 11:35
Date Received: 04/25/15 08:40

Lab Sample ID: 160-11532-9
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**19.0**	**B C**	30.0	17.3	ug/L		05/12/15 14:06	05/20/15 19:33	2
Antimony	1.7	U	5.0	1.7	ug/L		05/12/15 14:06	05/20/15 19:33	2
Arsenic	**2.6**	**B**	10.0	1.2	ug/L		05/12/15 14:06	05/20/15 19:33	2
Barium	**35.9**		2.0	0.22	ug/L		05/12/15 14:06	05/20/15 19:33	2
Beryllium	0.35	U	0.50	0.35	ug/L		05/12/15 14:06	05/20/15 19:33	2
Cadmium	0.10	U	0.50	0.10	ug/L		05/12/15 14:06	05/20/15 19:33	2
Chromium	**2.2**	**B**	10.0	1.0	ug/L		05/12/15 14:06	05/20/15 19:33	2
Cobalt	0.22	U	2.0	0.22	ug/L		05/12/15 14:06	05/20/15 19:33	2
Copper	**2.7**		1.0	0.68	ug/L		05/12/15 14:06	05/20/15 19:33	2
Lead	0.17	U	3.0	0.17	ug/L		05/12/15 14:06	05/20/15 19:33	2
Manganese	0.88	U	2.0	0.88	ug/L		05/12/15 14:06	05/20/15 19:33	2
Molybdenum	**2.1**	**B**	5.0	1.0	ug/L		05/12/15 14:06	05/20/15 19:33	2
Nickel	0.80	U	5.0	0.80	ug/L		05/12/15 14:06	05/20/15 19:33	2
Selenium	1.6	U	5.0	1.6	ug/L		05/12/15 14:06	05/20/15 19:33	2
Silver	0.82	U	2.0	0.82	ug/L		05/12/15 14:06	05/20/15 19:33	2
Strontium	**289**		5.0	0.060	ug/L		05/12/15 14:06	05/20/15 19:33	2
Thallium	0.55	U	2.0	0.55	ug/L		05/12/15 14:06	05/20/15 19:33	2
Thorium	0.55	U	2.0	0.55	ug/L		05/12/15 14:06	05/20/15 19:33	2
Tin	1.1	U	2.0	1.1	ug/L		05/12/15 14:06	05/20/15 19:33	2
Uranium	**1.2**		1.0	0.23	ug/L		05/12/15 14:06	05/20/15 19:33	2
Zinc	**9.8**	**B**	10.0	9.3	ug/L		05/12/15 14:06	05/20/15 19:33	2

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

TestAmerica Job ID: 160-11430-1
SDG: SL1795

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

Client Sample ID: B30NX3
Date Collected: 04/24/15 10:36
Date Received: 04/25/15 08:40

Lab Sample ID: 160-11532-11
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**20.8**	**B C**	30.0	17.3	ug/L		05/12/15 14:06	05/20/15 20:07	2
Antimony	1.7	U	5.0	1.7	ug/L		05/12/15 14:06	05/20/15 20:07	2
Arsenic	**1.2**	**B**	10.0	1.2	ug/L		05/12/15 14:06	05/20/15 20:07	2
Barium	**40.2**		2.0	0.22	ug/L		05/12/15 14:06	05/20/15 20:07	2
Beryllium	0.35	U	0.50	0.35	ug/L		05/12/15 14:06	05/20/15 20:07	2
Cadmium	0.10	U	0.50	0.10	ug/L		05/12/15 14:06	05/20/15 20:07	2
Chromium	**4.5**	**B**	10.0	1.0	ug/L		05/12/15 14:06	05/20/15 20:07	2
Cobalt	0.22	U	2.0	0.22	ug/L		05/12/15 14:06	05/20/15 20:07	2
Copper	0.68	U	1.0	0.68	ug/L		05/12/15 14:06	05/20/15 20:07	2
Lead	0.17	U	3.0	0.17	ug/L		05/12/15 14:06	05/20/15 20:07	2
Manganese	0.88	U	2.0	0.88	ug/L		05/12/15 14:06	05/20/15 20:07	2
Molybdenum	**1.0**	**B**	5.0	1.0	ug/L		05/12/15 14:06	05/20/15 20:07	2
Nickel	0.80	U	5.0	0.80	ug/L		05/12/15 14:06	05/20/15 20:07	2
Selenium	1.6	U	5.0	1.6	ug/L		05/12/15 14:06	05/20/15 20:07	2
Silver	0.82	U	2.0	0.82	ug/L		05/12/15 14:06	05/20/15 20:07	2
Strontium	**177**		5.0	0.060	ug/L		05/12/15 14:06	05/20/15 20:07	2
Thallium	0.55	U	2.0	0.55	ug/L		05/12/15 14:06	05/20/15 20:07	2
Thorium	0.55	U	2.0	0.55	ug/L		05/12/15 14:06	05/20/15 20:07	2
Tin	1.1	U	2.0	1.1	ug/L		05/12/15 14:06	05/20/15 20:07	2
Uranium	**1.5**		1.0	0.23	ug/L		05/12/15 14:06	05/20/15 20:07	2
Zinc	9.3	U	10.0	9.3	ug/L		05/12/15 14:06	05/20/15 20:07	2

Method: 7470A - Mercury (CVAA)

Client Sample ID: B30NT5
Date Collected: 04/23/15 09:17
Date Received: 04/24/15 09:20

Lab Sample ID: 160-11504-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.060	U	0.20	0.060	ug/L		04/29/15 08:37	04/30/15 12:11	1

General Chemistry

Client Sample ID: B30P91
Date Collected: 04/20/15 10:19
Date Received: 04/21/15 09:00

Lab Sample ID: 160-11430-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	**61.6**		5.0	2.9	ug/L		04/30/15 08:16	04/30/15 18:07	1

Client Sample ID: B30P74
Date Collected: 04/20/15 11:55
Date Received: 04/21/15 09:00

Lab Sample ID: 160-11430-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	**31.8**		5.0	2.9	ug/L		04/30/15 08:16	04/30/15 18:10	1

Client Sample ID: B30NT5
Date Collected: 04/23/15 09:17
Date Received: 04/24/15 09:20

Lab Sample ID: 160-11504-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	**6.3**		5.0	2.9	ug/L		04/30/15 08:16	04/30/15 18:13	1

General Chemistry

Client Sample ID: B313Y1 — **Lab Sample ID: 160-11504-4**
Date Collected: 04/23/15 10:45 — **Matrix: Water**
Date Received: 04/24/15 09:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	0.35	U	1.0	0.35	mg/L			05/13/15 04:28	1

Client Sample ID: B313Y2 — **Lab Sample ID: 160-11504-5**
Date Collected: 04/23/15 10:45 — **Matrix: Water**
Date Received: 04/24/15 09:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	0.35	U	1.0	0.35	mg/L			05/13/15 05:22	1

Client Sample ID: B313Y3 — **Lab Sample ID: 160-11504-6**
Date Collected: 04/23/15 10:45 — **Matrix: Water**
Date Received: 04/24/15 09:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	0.35	U	1.0	0.35	mg/L			05/13/15 05:40	1

Client Sample ID: B313Y4 — **Lab Sample ID: 160-11504-7**
Date Collected: 04/23/15 10:45 — **Matrix: Water**
Date Received: 04/24/15 09:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	**0.41**	**B C**	1.0	0.35	mg/L			05/13/15 06:00	1

Client Sample ID: B30PC2 — **Lab Sample ID: 160-11532-1**
Date Collected: 04/23/15 13:56 — **Matrix: Water**
Date Received: 04/25/15 08:40

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**123**		5.0	0.54	mg/L			05/04/15 07:41	1
Bicarbonate Alkalinity	**123**		5.0	0.54	mg/L			05/04/15 07:41	1
Carbonate Alkalinity	0.54	U	5.0	0.54	mg/L			05/04/15 07:41	1
Hydroxide Alkalinity	0.54	U	5.0	0.54	mg/L			05/04/15 07:41	1
Cyanide, Total	2.9	U	5.0	2.9	ug/L		04/30/15 08:16	04/30/15 18:17	1
Halogens, Total Organic	**6.0**		5.0	1.8	ug/L		05/08/15 11:00	05/11/15 13:32	1
Total Organic Carbon	0.35	U	1.0	0.35	mg/L			05/13/15 06:18	1

Client Sample ID: B30PC7 — **Lab Sample ID: 160-11532-2**
Date Collected: 04/24/15 08:51 — **Matrix: Water**
Date Received: 04/25/15 08:40

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**87.0**		5.0	0.54	mg/L			05/04/15 07:41	1

Client Sample ID: B30P03 — **Lab Sample ID: 160-11532-4**
Date Collected: 04/24/15 12:09 — **Matrix: Water**
Date Received: 04/25/15 08:40

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**125**		5.0	0.54	mg/L			05/04/15 07:41	1
Bicarbonate Alkalinity	**125**		5.0	0.54	mg/L			05/04/15 07:41	1
Carbonate Alkalinity	0.54	U	5.0	0.54	mg/L			05/04/15 07:41	1
Hydroxide Alkalinity	0.54	U	5.0	0.54	mg/L			05/04/15 07:41	1

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

TestAmerica Job ID: 160-11430-1
SDG: SL1795

General Chemistry

Client Sample ID: B30P04
Date Collected: 04/24/15 12:09
Date Received: 04/25/15 08:40

Lab Sample ID: 160-11532-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**128**		5.0	0.54	mg/L			05/04/15 07:41	1
Bicarbonate Alkalinity	**128**		5.0	0.54	mg/L			05/04/15 07:41	1
Carbonate Alkalinity	0.54	U	5.0	0.54	mg/L			05/04/15 07:41	1
Hydroxide Alkalinity	0.54	U	5.0	0.54	mg/L			05/04/15 07:41	1

Client Sample ID: B30P07
Date Collected: 04/24/15 09:53
Date Received: 04/25/15 08:40

Lab Sample ID: 160-11532-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**130**		5.0	0.54	mg/L			05/04/15 07:41	1
Bicarbonate Alkalinity	**130**		5.0	0.54	mg/L			05/04/15 07:41	1
Carbonate Alkalinity	0.54	U	5.0	0.54	mg/L			05/04/15 07:41	1
Hydroxide Alkalinity	0.54	U	5.0	0.54	mg/L			05/04/15 07:41	1

Client Sample ID: B30P13
Date Collected: 04/24/15 11:15
Date Received: 04/25/15 08:40

Lab Sample ID: 160-11532-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**125**		5.0	0.54	mg/L			05/04/15 07:41	1
Bicarbonate Alkalinity	**125**		5.0	0.54	mg/L			05/04/15 07:41	1
Carbonate Alkalinity	0.54	U	5.0	0.54	mg/L			05/04/15 07:41	1
Hydroxide Alkalinity	0.54	U	5.0	0.54	mg/L			05/04/15 07:41	1

Client Sample ID: B30YH9
Date Collected: 04/24/15 11:35
Date Received: 04/25/15 08:40

Lab Sample ID: 160-11532-9
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**108**		5.0	0.54	mg/L			05/04/15 07:41	1
Bicarbonate Alkalinity	**108**		5.0	0.54	mg/L			05/04/15 07:41	1
Carbonate Alkalinity	0.54	U	5.0	0.54	mg/L			05/04/15 07:41	1
Hydroxide Alkalinity	0.54	U	5.0	0.54	mg/L			05/04/15 07:41	1

Client Sample ID: B30NX3
Date Collected: 04/24/15 10:36
Date Received: 04/25/15 08:40

Lab Sample ID: 160-11532-11
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**75.0**		5.0	0.54	mg/L			05/04/15 07:41	1
Bicarbonate Alkalinity	**75.0**		5.0	0.54	mg/L			05/04/15 07:41	1
Carbonate Alkalinity	0.54	U	5.0	0.54	mg/L			05/04/15 07:41	1
Hydroxide Alkalinity	0.54	U	5.0	0.54	mg/L			05/04/15 07:41	1

Client Sample ID: B313Y8
Date Collected: 04/24/15 09:50
Date Received: 04/25/15 08:40

Lab Sample ID: 160-11532-12
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	**1.2**	**C**	1.0	0.35	mg/L			05/13/15 06:35	1

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

TestAmerica Job ID: 160-11430-1
SDG: SL1795

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

Lab Sample ID: MB 160-188204/19
Matrix: Water
Analysis Batch: 188204

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.090	U	1.0	0.090	ug/L			04/27/15 13:10	1
1,1,1-Trichloroethane	0.070	U	1.0	0.070	ug/L			04/27/15 13:10	1
1,1,2,2-Tetrachloroethane	0.10	U	1.0	0.10	ug/L			04/27/15 13:10	1
1,1,2-Trichloroethane	0.15	U	1.0	0.15	ug/L			04/27/15 13:10	1
1,1-Dichloroethane	0.070	U	1.0	0.070	ug/L			04/27/15 13:10	1
1,1-Dichloroethene	0.080	U	1.0	0.080	ug/L			04/27/15 13:10	1
1,2,3-Trichloropropane	0.15	U	1.0	0.15	ug/L			04/27/15 13:10	1
1,2-Dibromo-3-Chloropropane	0.41	U	1.0	0.41	ug/L			04/27/15 13:10	1
1,2-Dibromoethane (EDB)	0.13	U	1.0	0.13	ug/L			04/27/15 13:10	1
1,2-Dichloroethane	0.10	U	1.0	0.10	ug/L			04/27/15 13:10	1
1,2-Dichloroethene, Total	0.15	U	2.0	0.15	ug/L			04/27/15 13:10	1
1,2-Dichloropropane	0.10	U	1.0	0.10	ug/L			04/27/15 13:10	1
1,4-Dichlorobenzene	0.12	U	1.0	0.12	ug/L			04/27/15 13:10	1
1-Butanol	12	U	50	12	ug/L			04/27/15 13:10	1
2-Butanone (MEK)	0.52	U	5.0	0.52	ug/L			04/27/15 13:10	1
2-Hexanone	0.22	U	5.0	0.22	ug/L			04/27/15 13:10	1
4-Methyl-2-pentanone (MIBK)	0.12	U	5.0	0.12	ug/L			04/27/15 13:10	1
Acetone	0.34	U	2.0	0.34	ug/L			04/27/15 13:10	1
Acetonitrile	2.0	U	10	2.0	ug/L			04/27/15 13:10	1
Acrolein	2.8	U	10	2.8	ug/L			04/27/15 13:10	1
Acrylonitrile	0.58	U	10	0.58	ug/L			04/27/15 13:10	1
Allyl chloride	0.11	U	2.0	0.11	ug/L			04/27/15 13:10	1
Benzene	0.060	U	1.0	0.060	ug/L			04/27/15 13:10	1
Bromodichloromethane	0.090	U	1.0	0.090	ug/L			04/27/15 13:10	1
Bromoform	0.17	U	1.0	0.17	ug/L			04/27/15 13:10	1
Bromomethane	0.25	U	2.0	0.25	ug/L			04/27/15 13:10	1
Carbon disulfide	0.050	U	1.0	0.050	ug/L			04/27/15 13:10	1
Carbon tetrachloride	0.13	U	1.0	0.13	ug/L			04/27/15 13:10	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			04/27/15 13:10	1
Chloroethane	0.10	U	2.0	0.10	ug/L			04/27/15 13:10	1
Chloroform	0.10	U	1.0	0.10	ug/L			04/27/15 13:10	1
Chloromethane	0.080	U	2.0	0.080	ug/L			04/27/15 13:10	1
Chloroprene	0.10	U	1.0	0.10	ug/L			04/27/15 13:10	1
cis-1,2-Dichloroethylene	0.090	U	1.0	0.090	ug/L			04/27/15 13:10	1
cis-1,3-Dichloropropene	0.070	U	1.0	0.070	ug/L			04/27/15 13:10	1
Dibromochloromethane	0.13	U	1.0	0.13	ug/L			04/27/15 13:10	1
Dibromomethane	0.21	U	1.0	0.21	ug/L			04/27/15 13:10	1
Dichlorodifluoromethane	0.080	U	2.0	0.080	ug/L			04/27/15 13:10	1
Ethyl Cyanide	1.4	U	10	1.4	ug/L			04/27/15 13:10	1
Ethyl methacrylate	0.11	U	1.0	0.11	ug/L			04/27/15 13:10	1
Ethylbenzene	0.090	U	1.0	0.090	ug/L			04/27/15 13:10	1
Iodomethane	0.090	U	2.0	0.090	ug/L			04/27/15 13:10	1
Isobutyl alcohol	8.7	U	80	8.7	ug/L			04/27/15 13:10	1
Methacrylonitrile	0.50	U	10	0.50	ug/L			04/27/15 13:10	1
Methyl methacrylate	0.26	U	2.0	0.26	ug/L			04/27/15 13:10	1
Methylene Chloride	0.27	U	1.0	0.27	ug/L			04/27/15 13:10	1
Styrene	0.070	U	1.0	0.070	ug/L			04/27/15 13:10	1
Tetrachloroethene	0.18	U	1.0	0.18	ug/L			04/27/15 13:10	1

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

Lab Sample ID: MB 160-188204/19
Matrix: Water
Analysis Batch: 188204

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrahydrofuran	1.1	U	10	1.1	ug/L			04/27/15 13:10	1
Toluene	0.070	U	1.0	0.070	ug/L			04/27/15 13:10	1
trans-1,2-Dichloroethylene	0.080	U	1.0	0.080	ug/L			04/27/15 13:10	1
trans-1,3-Dichloropropene	0.080	U	1.0	0.080	ug/L			04/27/15 13:10	1
trans-1,4-Dichloro-2-butene	0.29	U	2.0	0.29	ug/L			04/27/15 13:10	1
Trichloroethene	0.25	U	1.0	0.25	ug/L			04/27/15 13:10	1
Trichloromonofluoromethane	0.11	U	1.0	0.11	ug/L			04/27/15 13:10	1
Vinyl acetate	0.18	U	2.0	0.18	ug/L			04/27/15 13:10	1
Vinyl chloride	0.080	U	2.0	0.080	ug/L			04/27/15 13:10	1
Xylenes, Total	0.20	U	3.0	0.20	ug/L			04/27/15 13:10	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*04/27/15 13:10*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*85*		*75 - 129*		*04/27/15 13:10*	*1*
4-Bromofluorobenzene (Surr)	*104*		*81 - 130*		*04/27/15 13:10*	*1*
Dibromofluoromethane (Surr)	*96*		*81 - 124*		*04/27/15 13:10*	*1*
Toluene-d8 (Surr)	*118*		*87 - 128*		*04/27/15 13:10*	*1*

Lab Sample ID: LCS 160-188204/16
Matrix: Water
Analysis Batch: 188204

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	10.0	10.2		ug/L		102	80 - 120
1,1,1-Trichloroethane	10.0	11.2		ug/L		112	85 - 116
1,1,2,2-Tetrachloroethane	10.0	9.51		ug/L		95	80 - 120
1,1,2-Trichloroethane	10.0	8.71		ug/L		87	80 - 120
1,1-Dichloroethane	10.0	10.7		ug/L		107	80 - 120
1,1-Dichloroethene	10.0	11.1		ug/L		111	80 - 120
1,2,3-Trichloropropane	10.0	10.5		ug/L		105	77 - 117
1,2-Dibromo-3-Chloropropane	10.0	8.48		ug/L		85	73 - 123
1,2-Dibromoethane (EDB)	10.0	9.36		ug/L		94	80 - 120
1,2-Dichloroethane	10.0	9.52		ug/L		95	80 - 115
1,2-Dichloroethene, Total	20.0	20.7		ug/L		103	80 - 120
1,2-Dichloropropane	10.0	9.43		ug/L		94	80 - 120
1,4-Dichlorobenzene	10.0	10.6		ug/L		106	80 - 120
1-Butanol	250	214		ug/L		85	62 - 128
2-Butanone (MEK)	10.0	9.70		ug/L		97	67 - 127
2-Hexanone	10.0	9.11		ug/L		91	70 - 123
4-Methyl-2-pentanone (MIBK)	10.0	8.89		ug/L		89	75 - 126
Acetone	10.0	9.65		ug/L		96	69 - 129
Acetonitrile	100	91.9		ug/L		92	67 - 122
Acrolein	50.0	50.8		ug/L		102	58 - 140
Acrylonitrile	100	90.4		ug/L		90	80 - 122
Allyl chloride	10.0	10.9		ug/L		109	25 - 140

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

TestAmerica Job ID: 160-11430-1
SDG: SL1795

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

Lab Sample ID: LCS 160-188204/16
Matrix: Water
Analysis Batch: 188204

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	10.0	11.2		ug/L		112	80 - 120
Bromodichloromethane	10.0	9.95		ug/L		99	80 - 120
Bromoform	10.0	8.85		ug/L		89	80 - 120
Bromomethane	10.0	11.2		ug/L		112	70 - 124
Carbon disulfide	10.0	11.5		ug/L		115	80 - 121
Carbon tetrachloride	10.0	11.7		ug/L		117	83 - 125
Chlorobenzene	10.0	10.9		ug/L		109	80 - 120
Chloroethane	10.0	10.3		ug/L		103	73 - 119
Chloroform	10.0	10.4		ug/L		104	80 - 120
Chloromethane	10.0	10.7		ug/L		107	72 - 124
Chloroprene	10.0	11.2		ug/L		112	79 - 132
cis-1,2-Dichloroethylene	10.0	9.96		ug/L		100	80 - 120
cis-1,3-Dichloropropene	10.0	9.92		ug/L		99	80 - 120
Dibromochloromethane	10.0	8.82		ug/L		88	80 - 120
Dibromomethane	10.0	9.21		ug/L		92	80 - 120
Dichlorodifluoromethane	10.0	11.4		ug/L		114	24 - 140
Ethyl Cyanide	100	90.0		ug/L		90	77 - 121
Ethyl methacrylate	10.0	8.42		ug/L		84	69 - 123
Ethylbenzene	10.0	10.6		ug/L		106	80 - 120
Iodomethane	10.0	10.7		ug/L		107	69 - 129
Isobutyl alcohol	250	208		ug/L		83	64 - 124
Methacrylonitrile	100	103		ug/L		103	79 - 126
Methyl methacrylate	20.0	17.7		ug/L		89	70 - 123
Methylene Chloride	10.0	9.52		ug/L		95	80 - 120
Styrene	10.0	10.9		ug/L		109	81 - 133
Tetrachloroethene	10.0	10.4		ug/L		104	83 - 123
Tetrahydrofuran	20.0	20.5		ug/L		102	71 - 124
Toluene	10.0	11.3		ug/L		113	80 - 120
trans-1,2-Dichloroethylene	10.0	10.7		ug/L		107	80 - 120
trans-1,3-Dichloropropene	10.0	9.20		ug/L		92	82 - 124
trans-1,4-Dichloro-2-butene	10.0	8.72		ug/L		87	64 - 137
Trichloroethene	10.0	10.3		ug/L		103	80 - 120
Trichloromonofluoromethane	10.0	17.5	O	ug/L		175	71 - 132
Vinyl acetate	10.0	9.34		ug/L		93	63 - 140
Vinyl chloride	10.0	11.2		ug/L		112	77 - 122
Xylenes, Total	20.0	21.8		ug/L		109	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*92*		*75 - 129*
4-Bromofluorobenzene (Surr)	*89*		*81 - 130*
Dibromofluoromethane (Surr)	*99*		*81 - 124*
Toluene-d8 (Surr)	*106*		*87 - 128*

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

TestAmerica Job ID: 160-11430-1
SDG: SL1795

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

Lab Sample ID: LCSD 160-188204/17
Matrix: Water
Analysis Batch: 188204

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	10.0	10.5		ug/L		105	80 - 120	2	20
1,1,1-Trichloroethane	10.0	10.8		ug/L		108	85 - 116	3	20
1,1,2,2-Tetrachloroethane	10.0	9.75		ug/L		98	80 - 120	2	20
1,1,2-Trichloroethane	10.0	8.98		ug/L		90	80 - 120	3	20
1,1-Dichloroethane	10.0	10.6		ug/L		106	80 - 120	1	20
1,1-Dichloroethene	10.0	11.2		ug/L		112	80 - 120	1	20
1,2,3-Trichloropropane	10.0	11.1		ug/L		111	77 - 117	6	20
1,2-Dibromo-3-Chloropropane	10.0	8.69		ug/L		87	73 - 123	2	20
1,2-Dibromoethane (EDB)	10.0	9.33		ug/L		93	80 - 120	0	20
1,2-Dichloroethane	10.0	10.0		ug/L		100	80 - 115	5	20
1,2-Dichloroethene, Total	20.0	20.4		ug/L		102	80 - 120	1	20
1,2-Dichloropropane	10.0	9.98		ug/L		100	80 - 120	6	20
1,4-Dichlorobenzene	10.0	10.9		ug/L		109	80 - 120	3	20
1-Butanol	250	232		ug/L		93	62 - 128	8	20
2-Butanone (MEK)	10.0	10.4		ug/L		104	67 - 127	7	20
2-Hexanone	10.0	10.3		ug/L		103	70 - 123	12	20
4-Methyl-2-pentanone (MIBK)	10.0	10.2		ug/L		102	75 - 126	14	20
Acetone	10.0	9.69		ug/L		97	69 - 129	0	20
Acetonitrile	100	95.5		ug/L		95	67 - 122	4	20
Acrolein	50.0	49.1		ug/L		98	58 - 140	3	20
Acrylonitrile	100	96.6		ug/L		97	80 - 122	7	20
Allyl chloride	10.0	10.3		ug/L		103	25 - 140	5	20
Benzene	10.0	11.0		ug/L		110	80 - 120	1	20
Bromodichloromethane	10.0	10.2		ug/L		102	80 - 120	3	20
Bromoform	10.0	9.73		ug/L		97	80 - 120	9	20
Bromomethane	10.0	11.5		ug/L		115	70 - 124	3	20
Carbon disulfide	10.0	11.1		ug/L		111	80 - 121	3	20
Carbon tetrachloride	10.0	11.6		ug/L		116	83 - 125	1	20
Chlorobenzene	10.0	11.1		ug/L		111	80 - 120	2	20
Chloroethane	10.0	10.6		ug/L		106	73 - 119	3	20
Chloroform	10.0	10.1		ug/L		101	80 - 120	3	20
Chloromethane	10.0	10.5		ug/L		105	72 - 124	2	20
Chloroprene	10.0	11.2		ug/L		112	79 - 132	0	20
cis-1,2-Dichloroethylene	10.0	9.73		ug/L		97	80 - 120	2	20
cis-1,3-Dichloropropene	10.0	10.5		ug/L		105	80 - 120	6	20
Dibromochloromethane	10.0	9.79		ug/L		98	80 - 120	10	20
Dibromomethane	10.0	9.73		ug/L		97	80 - 120	6	20
Dichlorodifluoromethane	10.0	11.0		ug/L		110	24 - 140	4	20
Ethyl Cyanide	100	99.8		ug/L		100	77 - 121	10	20
Ethyl methacrylate	10.0	9.19		ug/L		92	69 - 123	9	20
Ethylbenzene	10.0	10.4		ug/L		104	80 - 120	1	20
Iodomethane	10.0	10.5		ug/L		105	69 - 129	1	20
Isobutyl alcohol	250	222		ug/L		89	64 - 124	7	20
Methacrylonitrile	100	112		ug/L		112	79 - 126	9	20
Methyl methacrylate	20.0	19.8		ug/L		99	70 - 123	11	20
Methylene Chloride	10.0	10.1		ug/L		101	80 - 120	6	20
Styrene	10.0	11.1		ug/L		111	81 - 133	2	20
Tetrachloroethene	10.0	10.1		ug/L		101	83 - 123	3	20

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

Lab Sample ID: LCSD 160-188204/17
Matrix: Water
Analysis Batch: 188204

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Tetrahydrofuran			20.0	20.4		ug/L		102	71 - 124	0	20
Toluene			10.0	11.3		ug/L		113	80 - 120	0	20
trans-1,2-Dichloroethylene			10.0	10.7		ug/L		107	80 - 120	0	20
trans-1,3-Dichloropropene			10.0	9.86		ug/L		99	82 - 124	7	20
trans-1,4-Dichloro-2-butene			10.0	10.4		ug/L		104	64 - 137	17	20
Trichloroethene			10.0	10.5		ug/L		105	80 - 120	2	20
Trichloromonofluoromethane			10.0	9.72		ug/L		97	71 - 132	57	20
Vinyl acetate			10.0	10.1		ug/L		101	63 - 140	8	20
Vinyl chloride			10.0	11.2		ug/L		112	77 - 122	1	20
Xylenes, Total			20.0	21.8		ug/L		109	80 - 120	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*75 - 129*
4-Bromofluorobenzene (Surr)	*92*		*81 - 130*
Dibromofluoromethane (Surr)	*103*		*81 - 124*
Toluene-d8 (Surr)	*105*		*87 - 128*

Lab Sample ID: 160-11504-1 MS
Matrix: Water
Analysis Batch: 188204

Client Sample ID: B30NT5
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	0.090	U	10.0	9.97		ug/L		100	80 - 120
1,1,1-Trichloroethane	0.070	U	10.0	10.1		ug/L		101	82 - 124
1,1,2,2-Tetrachloroethane	0.10	U	10.0	8.91		ug/L		89	75 - 121
1,1,2-Trichloroethane	0.15	U	10.0	8.46		ug/L		85	80 - 120
1,1-Dichloroethane	0.070	U	10.0	9.88		ug/L		99	80 - 122
1,1-Dichloroethene	0.080	U	10.0	9.48		ug/L		95	80 - 120
1,2,3-Trichloropropane	0.15	U	10.0	10.1		ug/L		101	71 - 119
1,2-Dibromo-3-Chloropropane	0.41	U	10.0	8.38		ug/L		84	64 - 130
1,2-Dibromoethane (EDB)	0.13	U	10.0	8.73		ug/L		87	82 - 122
1,2-Dichloroethane	0.10	U	10.0	9.23		ug/L		92	80 - 120
1,2-Dichloroethene, Total	0.15	U	20.0	19.1		ug/L		96	80 - 120
1,2-Dichloropropane	0.10	U	10.0	9.19		ug/L		92	80 - 120
1,4-Dichlorobenzene	0.12	U	10.0	10.0		ug/L		100	80 - 120
1-Butanol	12	U	250	223		ug/L		89	58 - 144
2-Butanone (MEK)	0.52	U	10.0	10.1		ug/L		101	53 - 145
2-Hexanone	0.22	U	10.0	9.38		ug/L		94	59 - 132
4-Methyl-2-pentanone (MIBK)	0.12	U	10.0	9.07		ug/L		91	70 - 131
Acetone	0.34	U	10.0	8.74		ug/L		87	50 - 137
Acetonitrile	2.0	U	100	89.5		ug/L		90	67 - 138
Acrolein	2.8	U	50.0	47.9		ug/L		96	52 - 150
Acrylonitrile	0.58	U	100	92.7		ug/L		93	73 - 137
Allyl chloride	0.11	U	10.0	9.88		ug/L		99	49 - 150
Benzene	0.060	U	10.0	10.5		ug/L		105	80 - 120
Bromodichloromethane	0.090	U	10.0	9.76		ug/L		98	80 - 120
Bromoform	0.17	U	10.0	8.26		ug/L		83	81 - 121
Bromomethane	0.25	U	10.0	9.37		ug/L		94	55 - 137

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

Lab Sample ID: 160-11504-1 MS
Matrix: Water
Analysis Batch: 188204

Client Sample ID: B30NT5
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbon disulfide	0.050	U	10.0	9.94		ug/L		99	80 - 121
Carbon tetrachloride	0.13	U	10.0	10.4		ug/L		104	77 - 131
Chlorobenzene	0.15	U	10.0	10.4		ug/L		104	80 - 120
Chloroethane	0.10	U	10.0	9.56		ug/L		96	71 - 126
Chloroform	0.13	J	10.0	10.0		ug/L		99	80 - 120
Chloromethane	0.080	U	10.0	9.02		ug/L		90	62 - 132
Chloroprene	0.10	U	10.0	9.93		ug/L		99	74 - 137
cis-1,2-Dichloroethylene	0.090	U	10.0	9.20		ug/L		92	80 - 120
cis-1,3-Dichloropropene	0.070	U	10.0	9.93		ug/L		99	83 - 127
Dibromochloromethane	0.13	U	10.0	9.19		ug/L		92	84 - 123
Dibromomethane	0.21	U	10.0	9.22		ug/L		92	78 - 122
Dichlorodifluoromethane	0.080	U	10.0	9.37		ug/L		94	67 - 135
Ethyl Cyanide	1.4	U	100	92.0		ug/L		92	67 - 141
Ethyl methacrylate	0.11	U	10.0	8.29		ug/L		83	69 - 123
Ethylbenzene	0.090	U	10.0	9.99		ug/L		100	84 - 125
Iodomethane	0.090	U	10.0	9.47		ug/L		95	53 - 141
Isobutyl alcohol	8.7	U	250	199		ug/L		80	59 - 138
Methacrylonitrile	0.50	U	100	102		ug/L		102	70 - 142
Methyl methacrylate	0.26	U	20.0	17.8		ug/L		89	66 - 131
Methylene Chloride	0.27	U	10.0	8.92		ug/L		89	80 - 120
Styrene	0.070	U	10.0	10.8		ug/L		108	77 - 139
Tetrachloroethene	0.18	U	10.0	9.45		ug/L		94	80 - 126
Tetrahydrofuran	1.1	U	20.0	22.8		ug/L		114	65 - 136
Toluene	0.070	U	10.0	10.4		ug/L		104	85 - 123
trans-1,2-Dichloroethylene	0.080	U	10.0	9.90		ug/L		99	80 - 120
trans-1,3-Dichloropropene	0.080	U	10.0	9.44		ug/L		94	83 - 125
trans-1,4-Dichloro-2-butene	0.29	U	10.0	8.10		ug/L		81	56 - 139
Trichloroethene	0.25	U	10.0	9.73		ug/L		97	81 - 125
Trichloromonofluoromethane	0.11	U O	10.0	8.81		ug/L		88	69 - 133
Vinyl acetate	0.18	U	10.0	9.26		ug/L		93	58 - 150
Vinyl chloride	0.080	U	10.0	9.06		ug/L		91	70 - 129
Xylenes, Total	0.20	U	20.0	20.3		ug/L		101	80 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*88*		*75 - 129*
4-Bromofluorobenzene (Surr)	*86*		*81 - 130*
Dibromofluoromethane (Surr)	*100*		*81 - 124*
Toluene-d8 (Surr)	*102*		*87 - 128*

Lab Sample ID: 160-11504-1 MSD
Matrix: Water
Analysis Batch: 188204

Client Sample ID: B30NT5
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	0.090	U	10.0	9.78		ug/L		98	80 - 120	2	20
1,1,1-Trichloroethane	0.070	U	10.0	10.2		ug/L		102	82 - 124	2	20
1,1,2,2-Tetrachloroethane	0.10	U	10.0	9.24		ug/L		92	75 - 121	4	20
1,1,2-Trichloroethane	0.15	U	10.0	8.46		ug/L		85	80 - 120	0	20

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

TestAmerica Job ID: 160-11430-1
SDG: SL1795

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

Lab Sample ID: 160-11504-1 MSD
Matrix: Water
Analysis Batch: 188204

Client Sample ID: B30NT5
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloroethane	0.070	U	10.0	10.0		ug/L		100	80 - 122	1	20
1,1-Dichloroethene	0.080	U	10.0	9.68		ug/L		97	80 - 120	2	20
1,2,3-Trichloropropane	0.15	U	10.0	10.2		ug/L		102	71 - 119	1	20
1,2-Dibromo-3-Chloropropane	0.41	U	10.0	9.44		ug/L		94	64 - 130	12	20
1,2-Dibromoethane (EDB)	0.13	U	10.0	8.86		ug/L		89	82 - 122	2	20
1,2-Dichloroethane	0.10	U	10.0	10.0		ug/L		100	80 - 120	8	20
1,2-Dichloroethene, Total	0.15	U	20.0	19.3		ug/L		96	80 - 120	1	20
1,2-Dichloropropane	0.10	U	10.0	10.1		ug/L		101	80 - 120	9	20
1,4-Dichlorobenzene	0.12	U	10.0	10.4		ug/L		104	80 - 120	4	20
1-Butanol	12	U	250	240		ug/L		96	58 - 144	7	20
2-Butanone (MEK)	0.52	U	10.0	10.5		ug/L		105	53 - 145	4	20
2-Hexanone	0.22	U	10.0	10.0		ug/L		100	59 - 132	7	20
4-Methyl-2-pentanone (MIBK)	0.12	U	10.0	9.51		ug/L		95	70 - 131	5	20
Acetone	0.34	U	10.0	10.4		ug/L		104	50 - 137	17	20
Acetonitrile	2.0	U	100	93.2		ug/L		93	67 - 138	4	20
Acrolein	2.8	U	50.0	53.7		ug/L		107	52 - 150	11	20
Acrylonitrile	0.58	U	100	99.9		ug/L		100	73 - 137	7	20
Allyl chloride	0.11	U	10.0	10.2		ug/L		102	49 - 150	3	20
Benzene	0.060	U	10.0	10.9		ug/L		109	80 - 120	4	20
Bromodichloromethane	0.090	U	10.0	10.0		ug/L		100	80 - 120	3	20
Bromoform	0.17	U	10.0	9.32		ug/L		93	81 - 121	12	20
Bromomethane	0.25	U	10.0	10.5		ug/L		105	55 - 137	12	20
Carbon disulfide	0.050	U	10.0	10.4		ug/L		104	80 - 121	5	20
Carbon tetrachloride	0.13	U	10.0	10.8		ug/L		108	77 - 131	4	20
Chlorobenzene	0.15	U	10.0	10.3		ug/L		103	80 - 120	1	20
Chloroethane	0.10	U	10.0	9.83		ug/L		98	71 - 126	3	20
Chloroform	0.13	J	10.0	10.0		ug/L		99	80 - 120	0	20
Chloromethane	0.080	U	10.0	9.96		ug/L		100	62 - 132	10	20
Chloroprene	0.10	U	10.0	10.0		ug/L		100	74 - 137	1	20
cis-1,2-Dichloroethylene	0.090	U	10.0	9.48		ug/L		95	80 - 120	3	20
cis-1,3-Dichloropropene	0.070	U	10.0	10.3		ug/L		103	83 - 127	4	20
Dibromochloromethane	0.13	U	10.0	8.61		ug/L		86	84 - 123	7	20
Dibromomethane	0.21	U	10.0	9.72		ug/L		97	78 - 122	5	20
Dichlorodifluoromethane	0.080	U	10.0	9.73		ug/L		97	67 - 135	4	20
Ethyl Cyanide	1.4	U	100	101		ug/L		101	67 - 141	9	20
Ethyl methacrylate	0.11	U	10.0	8.61		ug/L		86	69 - 123	4	20
Ethylbenzene	0.090	U	10.0	9.95		ug/L		100	84 - 125	0	20
Iodomethane	0.090	U	10.0	10.0		ug/L		100	53 - 141	6	20
Isobutyl alcohol	8.7	U	250	233		ug/L		93	59 - 138	16	20
Methacrylonitrile	0.50	U	100	110		ug/L		110	70 - 142	7	20
Methyl methacrylate	0.26	U	20.0	19.2		ug/L		96	66 - 131	7	20
Methylene Chloride	0.27	U	10.0	9.19		ug/L		92	80 - 120	3	20
Styrene	0.070	U	10.0	10.4		ug/L		104	77 - 139	4	20
Tetrachloroethene	0.18	U	10.0	9.14		ug/L		91	80 - 126	3	20
Tetrahydrofuran	1.1	U	20.0	23.4		ug/L		117	65 - 136	3	20
Toluene	0.070	U	10.0	10.2		ug/L		102	85 - 123	2	20
trans-1,2-Dichloroethylene	0.080	U	10.0	9.78		ug/L		98	80 - 120	1	20
trans-1,3-Dichloropropene	0.080	U	10.0	9.06		ug/L		91	83 - 125	4	20

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

Lab Sample ID: 160-11504-1 MSD
Matrix: Water
Analysis Batch: 188204

Client Sample ID: B30NT5
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
trans-1,4-Dichloro-2-butene	0.29	U	10.0	9.13		ug/L		91	56 - 139	12	20
Trichloroethene	0.25	U	10.0	9.84		ug/L		98	81 - 125	1	20
Trichloromonofluoromethane	0.11	U O	10.0	8.95		ug/L		90	69 - 133	2	20
Vinyl acetate	0.18	U	10.0	10.1		ug/L		101	58 - 150	8	20
Vinyl chloride	0.080	U	10.0	9.63		ug/L		96	70 - 129	6	20
Xylenes, Total	0.20	U	20.0	19.9		ug/L		99	80 - 120	2	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*75 - 129*
4-Bromofluorobenzene (Surr)	*91*		*81 - 130*
Dibromofluoromethane (Surr)	*104*		*81 - 124*
Toluene-d8 (Surr)	*100*		*87 - 128*

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

Lab Sample ID: MB 160-188774/1-A
Matrix: Water
Analysis Batch: 189382

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 188774

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	1.0	U	10	1.0	ug/L		04/30/15 12:41	05/05/15 13:01	1
2,4-Dichlorophenol	1.0	U	10	1.0	ug/L		04/30/15 12:41	05/05/15 13:01	1
2-Methylphenol	1.0	U	10	1.0	ug/L		04/30/15 12:41	05/05/15 13:01	1
2-Nitrophenol	1.5	U	10	1.5	ug/L		04/30/15 12:41	05/05/15 13:01	1
Bis(2-ethylhexyl) phthalate	3.35	J	10	1.9	ug/L		04/30/15 12:41	05/05/15 13:01	1
Naphthalene	1.0	U	10	1.0	ug/L		04/30/15 12:41	05/05/15 13:01	1
Pentachlorophenol	1.3	U	10	1.3	ug/L		04/30/15 12:41	05/05/15 13:01	1
Phenol	2.0	U	10	2.0	ug/L		04/30/15 12:41	05/05/15 13:01	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*				*04/30/15 12:41*	*05/05/15 13:01*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*79*		*47 - 103*	*04/30/15 12:41*	*05/05/15 13:01*	*1*
2-Fluorobiphenyl (Surr)	*77*		*30 - 99*	*04/30/15 12:41*	*05/05/15 13:01*	*1*
2-Fluorophenol (Surr)	*53*		*10 - 74*	*04/30/15 12:41*	*05/05/15 13:01*	*1*
Nitrobenzene-d5 (Surr)	*83*		*31 - 105*	*04/30/15 12:41*	*05/05/15 13:01*	*1*
Phenol-d5 (Surr)	*39*		*10 - 50*	*04/30/15 12:41*	*05/05/15 13:01*	*1*
Terphenyl-d14 (Surr)	*74*		*68 - 116*	*04/30/15 12:41*	*05/05/15 13:01*	*1*

Lab Sample ID: LCS 160-188774/2-A
Matrix: Water
Analysis Batch: 189382

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 188774

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,4-Dichlorobenzene			200	153		ug/L		76	46 - 88		
2,4-Dichlorophenol			200	169	O	ug/L		84	59 - 81		

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

TestAmerica Job ID: 160-11430-1
SDG: SL1795

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

Lab Sample ID: LCS 160-188774/2-A
Matrix: Water
Analysis Batch: 189382

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 188774

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylphenol	200	148		ug/L		74	47 - 75
2-Nitrophenol	200	176		ug/L		88	59 - 88
Bis(2-ethylhexyl) phthalate	200	180		ug/L		90	58 - 107
Naphthalene	200	162		ug/L		81	52 - 88
Pentachlorophenol	200	182		ug/L		91	47 - 96
Phenol	200	85.4	O	ug/L		43	21 - 37

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*96*		*47 - 103*
2-Fluorobiphenyl (Surr)	*88*		*30 - 99*
2-Fluorophenol (Surr)	*61*		*10 - 74*
Nitrobenzene-d5 (Surr)	*93*		*31 - 105*
Phenol-d5 (Surr)	*46*		*10 - 50*
Terphenyl-d14 (Surr)	*84*		*68 - 116*

Lab Sample ID: 160-11504-1 MS
Matrix: Water
Analysis Batch: 189382

Client Sample ID: B30NT5
Prep Type: Total/NA
Prep Batch: 188774

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	0.94	U	189	148		ug/L		79	47 - 86
2,4-Dichlorophenol	0.94	U O	189	154		ug/L		82	48 - 92
2-Methylphenol	0.94	U	189	111		ug/L		59	33 - 95
2-Nitrophenol	1.4	U	189	163		ug/L		86	49 - 96
Bis(2-ethylhexyl) phthalate	1.7	U	189	164		ug/L		87	45 - 119
Naphthalene	0.94	U	189	153		ug/L		81	50 - 88
Pentachlorophenol	1.2	U	189	169		ug/L		90	49 - 92
Phenol	1.9	U O	189	45.8		ug/L		24	10 - 70

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*97*		*47 - 103*
2-Fluorobiphenyl (Surr)	*84*		*30 - 99*
2-Fluorophenol (Surr)	*40*		*10 - 74*
Nitrobenzene-d5 (Surr)	*86*		*31 - 105*
Phenol-d5 (Surr)	*26*		*10 - 50*
Terphenyl-d14 (Surr)	*83*		*68 - 116*

Lab Sample ID: 160-11504-1 MSD
Matrix: Water
Analysis Batch: 189382

Client Sample ID: B30NT5
Prep Type: Total/NA
Prep Batch: 188774

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dichlorobenzene	0.94	U	189	145		ug/L		77	47 - 86	2	20
2,4-Dichlorophenol	0.94	U O	189	149		ug/L		79	48 - 92	3	20
2-Methylphenol	0.94	U	189	112		ug/L		59	33 - 95	0	20
2-Nitrophenol	1.4	U	189	159		ug/L		84	49 - 96	2	20
Bis(2-ethylhexyl) phthalate	1.7	U	189	167		ug/L		89	45 - 119	2	20
Naphthalene	0.94	U	189	151		ug/L		80	50 - 88	1	20

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

Lab Sample ID: 160-11504-1 MSD
Matrix: Water
Analysis Batch: 189382

Client Sample ID: B30NT5
Prep Type: Total/NA
Prep Batch: 188774

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Pentachlorophenol	1.2	U	189	167		ug/L		89	49 - 92	1	20
Phenol	1.9	U O	189	46.3		ug/L		25	10 - 70	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*90*		*47 - 103*
2-Fluorobiphenyl (Surr)	*82*		*30 - 99*
2-Fluorophenol (Surr)	*40*		*10 - 74*
Nitrobenzene-d5 (Surr)	*86*		*31 - 105*
Phenol-d5 (Surr)	*26*		*10 - 50*
Terphenyl-d14 (Surr)	*81*		*68 - 116*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 160-190484/1-A
Matrix: Water
Analysis Batch: 192334

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 190484

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	3.7	U	10.0	3.7	ug/L		05/12/15 14:01	05/26/15 15:55	1
Arsenic	1.8	U	10.0	1.8	ug/L		05/12/15 14:01	05/26/15 15:55	1
Barium	2.1	U	50.0	2.1	ug/L		05/12/15 14:01	05/26/15 15:55	1
Beryllium	0.28	U	5.0	0.28	ug/L		05/12/15 14:01	05/26/15 15:55	1
Cadmium	0.34	U	5.0	0.34	ug/L		05/12/15 14:01	05/26/15 15:55	1
Calcium	54.2	U	1000	54.2	ug/L		05/12/15 14:01	05/26/15 15:55	1
Boron	8.40	B	50.0	7.2	ug/L		05/12/15 14:01	05/26/15 15:55	1
Chromium	3.4	U	10.0	3.4	ug/L		05/12/15 14:01	05/26/15 15:55	1
Cobalt	2.7	U	50.0	2.7	ug/L		05/12/15 14:01	05/26/15 15:55	1
Copper	2.1	U	25.0	2.1	ug/L		05/12/15 14:01	05/26/15 15:55	1
Iron	66.60	B	100	12.8	ug/L		05/12/15 14:01	05/26/15 15:55	1
Magnesium	50.5	U	1000	50.5	ug/L		05/12/15 14:01	05/26/15 15:55	1
Manganese	1.0	U	15.0	1.0	ug/L		05/12/15 14:01	05/26/15 15:55	1
Nickel	2.6	U	40.0	2.6	ug/L		05/12/15 14:01	05/26/15 15:55	1
Potassium	456	U	5000	456	ug/L		05/12/15 14:01	05/26/15 15:55	1
Silver	0.99	U	10.0	0.99	ug/L		05/12/15 14:01	05/26/15 15:55	1
Sodium	105	U	1000	105	ug/L		05/12/15 14:01	05/26/15 15:55	1
Strontium	0.24	U	5.0	0.24	ug/L		05/12/15 14:01	05/26/15 15:55	1
Vanadium	4.4	U	50.0	4.4	ug/L		05/12/15 14:01	05/26/15 15:55	1
Zinc	8.3	U	20.0	8.3	ug/L		05/12/15 14:01	05/26/15 15:55	1

Lab Sample ID: LCS 160-190484/2-A
Matrix: Water
Analysis Batch: 192334

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 190484

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	500	532.0		ug/L		106	80 - 120
Arsenic	1000	1028		ug/L		103	80 - 120
Barium	1000	1032		ug/L		103	80 - 120
Beryllium	1000	1044		ug/L		104	80 - 120

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

TestAmerica Job ID: 160-11430-1
SDG: SL1795

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

Lab Sample ID: LCS 160-190484/2-A
Matrix: Water
Analysis Batch: 192334

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 190484

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	1000	1047		ug/L		105	80 - 120
Calcium	10000	11410		ug/L		114	80 - 120
Boron	2000	2007		ug/L		100	80 - 120
Chromium	1000	1094		ug/L		109	80 - 120
Cobalt	1000	1107		ug/L		111	80 - 120
Copper	1000	1091		ug/L		109	80 - 120
Iron	10000	10460		ug/L		105	80 - 120
Magnesium	10000	9890		ug/L		99	80 - 120
Manganese	1000	1034		ug/L		103	80 - 120
Nickel	1000	1113		ug/L		111	80 - 120
Potassium	10000	10030		ug/L		100	80 - 120
Silver	200	217.3		ug/L		109	80 - 120
Sodium	10000	10120		ug/L		101	80 - 120
Strontium	1000	1058		ug/L		106	80 - 120
Vanadium	1000	1015		ug/L		102	80 - 120
Zinc	1000	1060		ug/L		106	80 - 120

Lab Sample ID: 160-11504-1 MS
Matrix: Water
Analysis Batch: 192334

Client Sample ID: B30NT5
Prep Type: Total/NA
Prep Batch: 190484

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	3.7	U	500	554.1		ug/L		111	75 - 125
Arsenic	2.8	B	1000	1096		ug/L		109	75 - 125
Barium	80.7		1000	1147		ug/L		107	75 - 125
Beryllium	0.28	U	1000	1092		ug/L		109	75 - 125
Cadmium	0.34	U	1000	1094		ug/L		109	75 - 125
Calcium	95200		10000	106700		ug/L		115	75 - 125
Boron	32.7	B C	2000	2153		ug/L		106	75 - 125
Chromium	3.4	U	1000	1131		ug/L		113	75 - 125
Cobalt	2.7	U	1000	1113		ug/L		111	75 - 125
Copper	2.1	U	1000	1115		ug/L		112	75 - 125
Iron	12.8	U	10000	10830		ug/L		108	75 - 125
Magnesium	25800		10000	36750		ug/L		109	75 - 125
Manganese	1.0	U	1000	1062		ug/L		106	75 - 125
Nickel	4.2	B	1000	1124		ug/L		112	75 - 125
Potassium	8930		10000	19740		ug/L		108	75 - 125
Silver	0.99	U	200	225.9		ug/L		113	75 - 125
Sodium	31600		10000	42970		ug/L		114	75 - 125
Strontium	426		1000	1525		ug/L		110	75 - 125
Vanadium	12.6	B	1000	1065		ug/L		105	75 - 125
Zinc	71.1		1000	1174		ug/L		110	75 - 125

Lab Sample ID: 160-11504-1 MSD
Matrix: Water
Analysis Batch: 192334

Client Sample ID: B30NT5
Prep Type: Total/NA
Prep Batch: 190484

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	3.7	U	500	532.8		ug/L		107	75 - 125	4	20

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

TestAmerica Job ID: 160-11430-1
SDG: SL1795

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

Lab Sample ID: 160-11504-1 MSD
Matrix: Water
Analysis Batch: 192334

Client Sample ID: B30NT5
Prep Type: Total/NA
Prep Batch: 190484

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	2.8	B	1000	1051		ug/L		105	75 - 125	4	20
Barium	80.7		1000	1121		ug/L		104	75 - 125	2	20
Beryllium	0.28	U	1000	1066		ug/L		107	75 - 125	2	20
Cadmium	0.34	U	1000	1050		ug/L		105	75 - 125	4	20
Calcium	95200		10000	103200		ug/L		80	75 - 125	3	20
Boron	32.7	B C	2000	2105		ug/L		104	75 - 125	2	20
Chromium	3.4	U	1000	1072		ug/L		107	75 - 125	5	20
Cobalt	2.7	U	1000	1068		ug/L		107	75 - 125	4	20
Copper	2.1	U	1000	1068		ug/L		107	75 - 125	4	20
Iron	12.8	U	10000	10520		ug/L		105	75 - 125	3	20
Magnesium	25800		10000	35640		ug/L		98	75 - 125	3	20
Manganese	1.0	U	1000	1028		ug/L		103	75 - 125	3	20
Nickel	4.2	B	1000	1077		ug/L		107	75 - 125	4	20
Potassium	8930		10000	19310		ug/L		104	75 - 125	2	20
Silver	0.99	U	200	213.5		ug/L		107	75 - 125	6	20
Sodium	31600		10000	42120		ug/L		106	75 - 125	2	20
Strontium	426		1000	1493		ug/L		107	75 - 125	2	20
Vanadium	12.6	B	1000	1039		ug/L		103	75 - 125	2	20
Zinc	71.1		1000	1125		ug/L		105	75 - 125	4	20

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 160-190485/1-A
Matrix: Water
Analysis Batch: 191791

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 190485

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	28.68	B	30.0	17.3	ug/L		05/12/15 14:06	05/20/15 17:59	2
Antimony	1.7	U	5.0	1.7	ug/L		05/12/15 14:06	05/20/15 17:59	2
Arsenic	1.2	U	10.0	1.2	ug/L		05/12/15 14:06	05/20/15 17:59	2
Barium	0.22	U	2.0	0.22	ug/L		05/12/15 14:06	05/20/15 17:59	2
Beryllium	0.35	U	0.50	0.35	ug/L		05/12/15 14:06	05/20/15 17:59	2
Cadmium	0.10	U	0.50	0.10	ug/L		05/12/15 14:06	05/20/15 17:59	2
Chromium	1.0	U	10.0	1.0	ug/L		05/12/15 14:06	05/20/15 17:59	2
Cobalt	0.22	U	2.0	0.22	ug/L		05/12/15 14:06	05/20/15 17:59	2
Copper	0.68	U	1.0	0.68	ug/L		05/12/15 14:06	05/20/15 17:59	2
Lead	0.17	U	3.0	0.17	ug/L		05/12/15 14:06	05/20/15 17:59	2
Manganese	0.88	U	2.0	0.88	ug/L		05/12/15 14:06	05/20/15 17:59	2
Molybdenum	1.0	U	5.0	1.0	ug/L		05/12/15 14:06	05/20/15 17:59	2
Nickel	0.80	U	5.0	0.80	ug/L		05/12/15 14:06	05/20/15 17:59	2
Selenium	1.6	U	5.0	1.6	ug/L		05/12/15 14:06	05/20/15 17:59	2
Silver	0.82	U	2.0	0.82	ug/L		05/12/15 14:06	05/20/15 17:59	2
Strontium	0.0780	B	5.0	0.060	ug/L		05/12/15 14:06	05/20/15 17:59	2
Thallium	0.55	U	2.0	0.55	ug/L		05/12/15 14:06	05/20/15 17:59	2
Thorium	0.55	U	2.0	0.55	ug/L		05/12/15 14:06	05/20/15 17:59	2
Tin	1.1	U	2.0	1.1	ug/L		05/12/15 14:06	05/20/15 17:59	2
Uranium	0.23	U	1.0	0.23	ug/L		05/12/15 14:06	05/20/15 17:59	2
Zinc	9.3	U	10.0	9.3	ug/L		05/12/15 14:06	05/20/15 17:59	2

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

TestAmerica Job ID: 160-11430-1
SDG: SL1795

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

Lab Sample ID: LCS 160-190485/2-A
Matrix: Water
Analysis Batch: 191791

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 190485

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	10000	10060		ug/L		101	80 - 120
Antimony	500	518.8		ug/L		104	80 - 120
Arsenic	1000	1007		ug/L		101	80 - 120
Barium	1000	1035		ug/L		104	80 - 120
Beryllium	1000	1130		ug/L		113	80 - 120
Cadmium	1000	1077		ug/L		108	80 - 120
Chromium	1000	1027		ug/L		103	80 - 120
Cobalt	1000	988.3		ug/L		99	80 - 120
Copper	1000	1005		ug/L		100	80 - 120
Lead	1000	1049		ug/L		105	80 - 120
Manganese	1000	1052		ug/L		105	80 - 120
Molybdenum	500	521.4		ug/L		104	80 - 120
Nickel	1000	1056		ug/L		106	80 - 120
Selenium	500	475.5		ug/L		95	80 - 120
Silver	200	211.9		ug/L		106	80 - 120
Strontium	1000	1010		ug/L		101	80 - 120
Thallium	200	210.9		ug/L		105	80 - 120
Thorium	1000	1056		ug/L		106	80 - 120
Tin	1000	1022		ug/L		102	80 - 120
Uranium	1000	1058		ug/L		106	80 - 120
Zinc	1000	986.1		ug/L		99	80 - 120

Lab Sample ID: 160-11504-1 MS
Matrix: Water
Analysis Batch: 191791

Client Sample ID: B30NT5
Prep Type: Total/NA
Prep Batch: 190485

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	43.6	C	10000	10490		ug/L		105	75 - 125
Antimony	1.7	U	500	542.3		ug/L		108	75 - 125
Arsenic	3.5	B	1000	1046		ug/L		104	75 - 125
Barium	74.3		1000	1130		ug/L		106	75 - 125
Beryllium	0.35	U	1000	1179		ug/L		118	75 - 125
Cadmium	0.10	U	1000	1112		ug/L		111	75 - 125
Chromium	2.7	B	1000	1073		ug/L		107	75 - 125
Cobalt	0.22	U	1000	974.0		ug/L		97	75 - 125
Copper	3.3		1000	987.7		ug/L		98	75 - 125
Lead	0.60	B	1000	1058		ug/L		106	75 - 125
Manganese	0.88	U	1000	1056		ug/L		106	75 - 125
Molybdenum	6.1		500	532.6		ug/L		105	75 - 125
Nickel	0.80	U	1000	1007		ug/L		101	75 - 125
Selenium	7.8		500	507.9		ug/L		100	75 - 125
Silver	0.82	U	200	213.8		ug/L		107	75 - 125
Strontium	398		1000	1441		ug/L		104	75 - 125
Thallium	0.55	U	200	213.9		ug/L		107	75 - 125
Thorium	0.55	U	1000	1091		ug/L		109	75 - 125
Tin	1.1	U	1000	1056		ug/L		106	75 - 125
Uranium	42.0		1000	1140		ug/L		110	75 - 125
Zinc	64.9		1000	1050		ug/L		99	75 - 125

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

TestAmerica Job ID: 160-11430-1
SDG: SL1795

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

Lab Sample ID: 160-11504-1 MSD — **Client Sample ID: B30NT5**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 191791 — **Prep Batch: 190485**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	43.6	C	10000	10270		ug/L		102	75 - 125	2	20
Antimony	1.7	U	500	531.6		ug/L		106	75 - 125	2	20
Arsenic	3.5	B	1000	1053		ug/L		105	75 - 125	1	20
Barium	74.3		1000	1121		ug/L		105	75 - 125	1	20
Beryllium	0.35	U	1000	1169		ug/L		117	75 - 125	1	20
Cadmium	0.10	U	1000	1102		ug/L		110	75 - 125	1	20
Chromium	2.7	B	1000	1052		ug/L		105	75 - 125	2	20
Cobalt	0.22	U	1000	983.3		ug/L		98	75 - 125	1	20
Copper	3.3		1000	998.1		ug/L		99	75 - 125	1	20
Lead	0.60	B	1000	1047		ug/L		105	75 - 125	1	20
Manganese	0.88	U	1000	1074		ug/L		107	75 - 125	2	20
Molybdenum	6.1		500	532.5		ug/L		105	75 - 125	0	20
Nickel	0.80	U	1000	1021		ug/L		102	75 - 125	1	20
Selenium	7.8		500	499.7		ug/L		98	75 - 125	2	20
Silver	0.82	U	200	212.3		ug/L		106	75 - 125	1	20
Strontium	398		1000	1426		ug/L		103	75 - 125	1	20
Thallium	0.55	U	200	210.3		ug/L		105	75 - 125	2	20
Thorium	0.55	U	1000	1076		ug/L		108	75 - 125	1	20
Tin	1.1	U	1000	1040		ug/L		104	75 - 125	2	20
Uranium	42.0		1000	1115		ug/L		107	75 - 125	2	20
Zinc	64.9		1000	1058		ug/L		99	75 - 125	1	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 160-188551/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 188801 — **Prep Batch: 188551**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.060	U	0.20	0.060	ug/L		04/29/15 08:37	04/30/15 12:02	1

Lab Sample ID: LCS 160-188551/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 188801 — **Prep Batch: 188551**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	5.00	4.85		ug/L		97	80 - 120

Lab Sample ID: 160-11504-1 MS — **Client Sample ID: B30NT5**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 188801 — **Prep Batch: 188551**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.060	U	5.00	4.76		ug/L		95	80 - 120

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

TestAmerica Job ID: 160-11430-1
SDG: SL1795

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: 160-11504-1 MSD — **Client Sample ID: B30NT5**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 188801 — **Prep Batch: 188551**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.060	U	5.00	4.70		ug/L		94	80 - 120	1	20

Method: 310.1 - Alkalinity

Lab Sample ID: MB 160-189148/1 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 189148

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	0.54	U	5.0	0.54	mg/L			05/04/15 07:41	1
Bicarbonate Alkalinity	0.54	U	5.0	0.54	mg/L			05/04/15 07:41	1
Carbonate Alkalinity	0.54	U	5.0	0.54	mg/L			05/04/15 07:41	1
Hydroxide Alkalinity	0.54	U	5.0	0.54	mg/L			05/04/15 07:41	1

Lab Sample ID: HLCS 160-189148/3 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 189148

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity	400	381.0		mg/L		95	90 - 110
Bicarbonate Alkalinity	400	381.0		mg/L		95	90 - 110

Lab Sample ID: LCS 160-189148/2 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 189148

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: 160-11532-1 MS — **Client Sample ID: B30PC2**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 189148

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity	123		100	218.0		mg/L		95	80 - 120
Bicarbonate Alkalinity	123		100	218.0		mg/L		95	80 - 120

Lab Sample ID: 160-11532-1 DU — **Client Sample ID: B30PC2**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 189148

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Alkalinity	123		124.0		mg/L		0.8	20
Bicarbonate Alkalinity	123		124.0		mg/L		0.8	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

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

TestAmerica Job ID: 160-11430-1
SDG: SL1795

Method: 9012B - Cyanide, Total andor Amenable

Lab Sample ID: MB 160-188726/1-A
Matrix: Water
Analysis Batch: 188969

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 188726

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	2.9	U	5.0	2.9	ug/L		04/30/15 08:16	04/30/15 17:46	1

Lab Sample ID: HLCS 160-188726/3-A
Matrix: Water
Analysis Batch: 188969

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 188726

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	400	407.7		ug/L		102	85 - 115

Lab Sample ID: LCS 160-188726/2-A
Matrix: Water
Analysis Batch: 188969

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 188726

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	200	206.0		ug/L		103	85 - 115

Lab Sample ID: 160-11405-C-13-C MS
Matrix: Water
Analysis Batch: 188969

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 188726

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	276		200	465.3		ug/L		95	66 - 120

Lab Sample ID: 160-11405-C-13-B DU
Matrix: Water
Analysis Batch: 188969

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 188726

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Cyanide, Total	276		266.7		ug/L		3	20

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

Lab Sample ID: MB 160-190441/1-A
Matrix: Water
Analysis Batch: 190442

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 190441

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		05/11/15 10:00	05/11/15 13:32	1

Lab Sample ID: LCS 160-190441/2-A
Matrix: Water
Analysis Batch: 190442

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 190441

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Halogens, Total Organic	100	95.58		ug/L		96	90 - 116

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

TestAmerica Job ID: 160-11430-1
SDG: SL1795

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

Lab Sample ID: 160-11554-E-3-C MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 190442 — **Prep Batch: 190441**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Halogens, Total Organic	3.1	B M	100	101.2		ug/L		98	85 - 117

Lab Sample ID: 160-11554-E-3-B DU — **Client Sample ID: Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 190442 — **Prep Batch: 190441**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Halogens, Total Organic	3.1	B M	2.30	B M	ug/L		30	20

Method: 9060 - Organic Carbon, Total (TOC)

Lab Sample ID: MB 160-190548/35 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 190548

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	0.385	B	1.0	0.35	mg/L			05/13/15 03:43	1

Lab Sample ID: LCS 160-190548/36 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 190548

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	10.0	9.18		mg/L		92	90 - 110

Lab Sample ID: 160-11504-4 MS — **Client Sample ID: B313Y1**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 190548

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	0.35	U	5.00	4.98		mg/L		100	76 - 120

Lab Sample ID: 160-11504-4 DU — **Client Sample ID: B313Y1**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 190548

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: 160-11430-1
SDG: SL1795

GC/MS VOA

Analysis Batch: 188204

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-11504-1	B30NT5	Total/NA	Water	8260C	
160-11504-1 MS	B30NT5	Total/NA	Water	8260C	
160-11504-1 MSD	B30NT5	Total/NA	Water	8260C	
160-11504-2	B30NY8	Total/NA	Water	8260C	
160-11504-8	B30HP2	Total/NA	Water	8260C	
LCS 160-188204/16	Lab Control Sample	Total/NA	Water	8260C	
LCSD 160-188204/17	Lab Control Sample Dup	Total/NA	Water	8260C	
MB 160-188204/19	Method Blank	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 188774

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-11504-1	B30NT5	Total/NA	Water	3510C	
160-11504-1 MS	B30NT5	Total/NA	Water	3510C	
160-11504-1 MSD	B30NT5	Total/NA	Water	3510C	
LCS 160-188774/2-A	Lab Control Sample	Total/NA	Water	3510C	
MB 160-188774/1-A	Method Blank	Total/NA	Water	3510C	

Analysis Batch: 189382

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-11504-1	B30NT5	Total/NA	Water	8270D	188774
160-11504-1 MS	B30NT5	Total/NA	Water	8270D	188774
160-11504-1 MSD	B30NT5	Total/NA	Water	8270D	188774
LCS 160-188774/2-A	Lab Control Sample	Total/NA	Water	8270D	188774
MB 160-188774/1-A	Method Blank	Total/NA	Water	8270D	188774

Metals

Prep Batch: 188551

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-11504-1	B30NT5	Total/NA	Water	7470A	
160-11504-1 MS	B30NT5	Total/NA	Water	7470A	
160-11504-1 MSD	B30NT5	Total/NA	Water	7470A	
LCS 160-188551/2-A	Lab Control Sample	Total/NA	Water	7470A	
MB 160-188551/1-A	Method Blank	Total/NA	Water	7470A	

Analysis Batch: 188801

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-11504-1	B30NT5	Total/NA	Water	7470A	188551
160-11504-1 MS	B30NT5	Total/NA	Water	7470A	188551
160-11504-1 MSD	B30NT5	Total/NA	Water	7470A	188551
LCS 160-188551/2-A	Lab Control Sample	Total/NA	Water	7470A	188551
MB 160-188551/1-A	Method Blank	Total/NA	Water	7470A	188551

Prep Batch: 190484

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-11504-1	B30NT5	Total/NA	Water	3010A	
160-11504-1 MS	B30NT5	Total/NA	Water	3010A	
160-11504-1 MSD	B30NT5	Total/NA	Water	3010A	

Metals (Continued)

Prep Batch: 190484 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-11504-2	B30NY8	Total/NA	Water	3010A	
160-11504-3	B30NY9	Dissolved	Water	3010A	
160-11532-1	B30PC2	Total/NA	Water	3010A	
160-11532-2	B30PC7	Dissolved	Water	3010A	
160-11532-3	B30PC5	Total/NA	Water	3010A	
160-11532-4	B30P03	Total/NA	Water	3010A	
160-11532-5	B30P04	Total/NA	Water	3010A	
160-11532-6	B30P07	Total/NA	Water	3010A	
160-11532-7	B30P13	Total/NA	Water	3010A	
160-11532-8	B30YH7	Total/NA	Water	3010A	
160-11532-9	B30YH9	Dissolved	Water	3010A	
160-11532-10	B30NX1	Total/NA	Water	3010A	
160-11532-11	B30NX3	Dissolved	Water	3010A	
LCS 160-190484/2-A	Lab Control Sample	Total/NA	Water	3010A	
MB 160-190484/1-A	Method Blank	Total/NA	Water	3010A	

Prep Batch: 190485

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-11504-1	B30NT5	Total/NA	Water	3010A	
160-11504-1 MS	B30NT5	Total/NA	Water	3010A	
160-11504-1 MSD	B30NT5	Total/NA	Water	3010A	
160-11504-2	B30NY8	Total/NA	Water	3010A	
160-11504-3	B30NY9	Dissolved	Water	3010A	
160-11532-2	B30PC7	Dissolved	Water	3010A	
160-11532-3	B30PC5	Total/NA	Water	3010A	
160-11532-8	B30YH7	Total/NA	Water	3010A	
160-11532-9	B30YH9	Dissolved	Water	3010A	
160-11532-10	B30NX1	Total/NA	Water	3010A	
160-11532-11	B30NX3	Dissolved	Water	3010A	
LCS 160-190485/2-A	Lab Control Sample	Total/NA	Water	3010A	
MB 160-190485/1-A	Method Blank	Total/NA	Water	3010A	

Analysis Batch: 191791

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-11504-1	B30NT5	Total/NA	Water	6020A	190485
160-11504-1 MS	B30NT5	Total/NA	Water	6020A	190485
160-11504-1 MSD	B30NT5	Total/NA	Water	6020A	190485
160-11504-2	B30NY8	Total/NA	Water	6020A	190485
160-11504-3	B30NY9	Dissolved	Water	6020A	190485
160-11532-2	B30PC7	Dissolved	Water	6020A	190485
160-11532-3	B30PC5	Total/NA	Water	6020A	190485
160-11532-8	B30YH7	Total/NA	Water	6020A	190485
160-11532-9	B30YH9	Dissolved	Water	6020A	190485
160-11532-10	B30NX1	Total/NA	Water	6020A	190485
160-11532-11	B30NX3	Dissolved	Water	6020A	190485
LCS 160-190485/2-A	Lab Control Sample	Total/NA	Water	6020A	190485
MB 160-190485/1-A	Method Blank	Total/NA	Water	6020A	190485

Analysis Batch: 192334

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-11504-1	B30NT5	Total/NA	Water	6010C	190484

Metals (Continued)

Analysis Batch: 192334 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-11504-1 MS	B30NT5	Total/NA	Water	6010C	190484
160-11504-1 MSD	B30NT5	Total/NA	Water	6010C	190484
160-11504-2	B30NY8	Total/NA	Water	6010C	190484
160-11504-3	B30NY9	Dissolved	Water	6010C	190484
160-11532-1	B30PC2	Total/NA	Water	6010C	190484
160-11532-2	B30PC7	Dissolved	Water	6010C	190484
160-11532-3	B30PC5	Total/NA	Water	6010C	190484
160-11532-4	B30P03	Total/NA	Water	6010C	190484
160-11532-5	B30P04	Total/NA	Water	6010C	190484
160-11532-6	B30P07	Total/NA	Water	6010C	190484
160-11532-7	B30P13	Total/NA	Water	6010C	190484
160-11532-8	B30YH7	Total/NA	Water	6010C	190484
160-11532-9	B30YH9	Dissolved	Water	6010C	190484
160-11532-10	B30NX1	Total/NA	Water	6010C	190484
160-11532-11	B30NX3	Dissolved	Water	6010C	190484
LCS 160-190484/2-A	Lab Control Sample	Total/NA	Water	6010C	190484
MB 160-190484/1-A	Method Blank	Total/NA	Water	6010C	190484

General Chemistry

Prep Batch: 188726

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-11405-C-13-B DU	Duplicate	Total/NA	Water	9010C	
160-11405-C-13-C MS	Matrix Spike	Total/NA	Water	9010C	
160-11430-1	B30P91	Total/NA	Water	9010C	
160-11430-2	B30P74	Total/NA	Water	9010C	
160-11504-1	B30NT5	Total/NA	Water	9010C	
160-11532-1	B30PC2	Total/NA	Water	9010C	
HLCS 160-188726/3-A	Lab Control Sample	Total/NA	Water	9010C	
LCS 160-188726/2-A	Lab Control Sample	Total/NA	Water	9010C	
MB 160-188726/1-A	Method Blank	Total/NA	Water	9010C	

Analysis Batch: 188969

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-11405-C-13-B DU	Duplicate	Total/NA	Water	9012B	188726
160-11405-C-13-C MS	Matrix Spike	Total/NA	Water	9012B	188726
160-11430-1	B30P91	Total/NA	Water	9012B	188726
160-11430-2	B30P74	Total/NA	Water	9012B	188726
160-11504-1	B30NT5	Total/NA	Water	9012B	188726
160-11532-1	B30PC2	Total/NA	Water	9012B	188726
HLCS 160-188726/3-A	Lab Control Sample	Total/NA	Water	9012B	188726
LCS 160-188726/2-A	Lab Control Sample	Total/NA	Water	9012B	188726
MB 160-188726/1-A	Method Blank	Total/NA	Water	9012B	188726

Analysis Batch: 189148

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-11532-1	B30PC2	Total/NA	Water	310.1	
160-11532-1 DU	B30PC2	Total/NA	Water	310.1	
160-11532-1 MS	B30PC2	Total/NA	Water	310.1	
160-11532-2	B30PC7	Total/NA	Water	310.1	

General Chemistry (Continued)

Analysis Batch: 189148 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-11532-4	B30P03	Total/NA	Water	310.1	
160-11532-5	B30P04	Total/NA	Water	310.1	
160-11532-6	B30P07	Total/NA	Water	310.1	
160-11532-7	B30P13	Total/NA	Water	310.1	
160-11532-9	B30YH9	Total/NA	Water	310.1	
160-11532-11	B30NX3	Total/NA	Water	310.1	
HLCS 160-189148/3	Lab Control Sample	Total/NA	Water	310.1	
LCS 160-189148/2	Lab Control Sample	Total/NA	Water	310.1	
MB 160-189148/1	Method Blank	Total/NA	Water	310.1	

Prep Batch: 190441

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-11532-1	B30PC2	Total/NA	Water	Carbon Trap	
160-11554-E-3-B DU	Duplicate	Total/NA	Water	Carbon Trap	
160-11554-E-3-C MS	Matrix Spike	Total/NA	Water	Carbon Trap	
LCS 160-190441/2-A	Lab Control Sample	Total/NA	Water	Carbon Trap	
MB 160-190441/1-A	Method Blank	Total/NA	Water	Carbon Trap	

Analysis Batch: 190442

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-11532-1	B30PC2	Total/NA	Water	9020B	190441
160-11554-E-3-B DU	Duplicate	Total/NA	Water	9020B	190441
160-11554-E-3-C MS	Matrix Spike	Total/NA	Water	9020B	190441
LCS 160-190441/2-A	Lab Control Sample	Total/NA	Water	9020B	190441
MB 160-190441/1-A	Method Blank	Total/NA	Water	9020B	190441

Analysis Batch: 190548

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-11504-4	B313Y1	Total/NA	Water	9060	
160-11504-4 DU	B313Y1	Total/NA	Water	9060	
160-11504-4 MS	B313Y1	Total/NA	Water	9060	
160-11504-5	B313Y2	Total/NA	Water	9060	
160-11504-6	B313Y3	Total/NA	Water	9060	
160-11504-7	B313Y4	Total/NA	Water	9060	
160-11532-1	B30PC2	Total/NA	Water	9060	
160-11532-12	B313Y8	Total/NA	Water	9060	
LCS 160-190548/36	Lab Control Sample	Total/NA	Water	9060	
MB 160-190548/35	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: 160-11430-1
SDG: SL1795

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)
160-11504-1	B30NT5	86	110	98	123
160-11504-1 MS	B30NT5	88	86	100	102
160-11504-1 MSD	B30NT5	96	91	104	100
160-11504-2	B30NY8	85	106	98	121
160-11504-8	B30HP2	91	105	98	122
LCS 160-188204/16	Lab Control Sample	92	89	99	106
LCSD 160-188204/17	Lab Control Sample Dup	97	92	103	105
MB 160-188204/19	Method Blank	85	104	96	118

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)
160-11504-1	B30NT5	86	79	38	85	24	70
160-11504-1 MS	B30NT5	97	84	40	86	26	83
160-11504-1 MSD	B30NT5	90	82	40	86	26	81
LCS 160-188774/2-A	Lab Control Sample	96	88	61	93	46	84
MB 160-188774/1-A	Method Blank	79	77	53	83	39	74

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)