

September 12, 2014

REV. 1

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: 160-7745-1

TestAmerica Sample Delivery Group: SL1538
Client Project/Site: F13-018

For:

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

Attn: General Mailbox



Authorized for release by:
8/21/2014 3:50:40 PM

Jayna Awalt, Project Manager II
(314)298-8566

jayna.awalt@testamericainc.com

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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.

- 1
- 2
- 3
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- 6
- 7
- 8
- 9
- 10

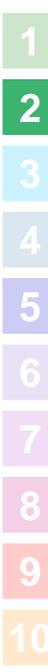


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Client: CH2M Hill Plateau Remediation Company
Project/Site: F13-018

TestAmerica Job ID: 160-7745-1
SDG: SL1538

Job ID: 160-7745-1

Laboratory: TestAmerica St. Louis

Narrative

CASE NARRATIVE

CH2MHill Plateau Remediation Company
P.O. Box 1600
MS B3-60
Richland, Washington 99352
August 21, 2014
Attention: Scot Fitzgerald

SDG	: SL1538
Number of Samples	: 7 samples
Sample Matrix	: Water
Data Deliverable	: Summary
Date SDG Closed	: August 4, 2014

II. Introduction

On August 4, 7 samples were received by TestAmerica - St. Louis for chemical analysis. The samples were not received within temperature criteria. See the COC and receipt checklists for documentation of any variations on receipt conditions and temperature. **Samples were received outside temperature criteria (11.3 C). Per SDR14-286, analyses were performed and reported. FedEx delays were the cause for cooler to be delivered late on 8/4/14. Samples were shipped on 7/31/14. Samples B2XLD8, B2XLF3 and B2XLH7 were sampled on 7/31/14. Samples were received with insufficient time remaining to perform Nitrate, Nitrite and Phosphate analysis within 2x hold time. Per SDR14-286, results for out of hold run will be reported below.** 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: F13-018

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.

Deviation from Request: **For Metals analyses, per standard practice, all 6020 water and soil 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 flagging unless otherwise noted in the case narrative.**

IV. Definitions

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

The term "Detection Limit" used in the analytical data report refers to either the lab's standard reporting limits or contractually required reporting limits, whichever is applicable.

Client: CH2M Hill Plateau Remediation Company
Project/Site: F13-018

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Laboratory: TestAmerica St. Louis (Continued)

The following data qualifiers may be applicable to the results in this report, as appropriate.

- **B** - For inorganic analyses, the sample result is greater than the MDL but less than the RL.
- **B** - For organic analyses, Method Blank contamination. The Method Blank contains the target analyte at a concentration above the MDL.
- **J** - For organic analyses, the sample is estimated and less than the RL.
- **C** - For inorganic analyses, Method Blank contamination. The Method Blank contains the target analyte at a concentration above the MDL.
- **D** - For all analyses, the sample result was obtained from the analysis of a dilution. For Metals analyses, per standard practice, all solid samples are initially prepared at a 2x dilution. This standard dilution does not affect reporting limits as MDL studies are also prepared in the same manner. These dilutions do not necessitate qualification unless otherwise noted in the case narrative. Due to limitations of the LIMS system, "D" flags may appear on QC samples.
- **N** - For inorganics and GC analyses, the spike/spike duplicate recoveries are outside QC limits.
- **T** - For GCMS analyses, the spike/spike duplicate recoveries are outside QC limits.
- **O** - For all organic 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.

ICP Metals

Batch: 138138

Calcium was detected in method blank MB 160-136628/1-A at levels above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged "B". If the associated sample reported a result above the MDL and/or RL and is not greater than 5x the method blank, the result has been flagged "C".

Due to the high concentration of calcium the matrix spike / matrix spike duplicate (MS/MSD) could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria. (160-7745-1 MS), (160-7745-1 MSD)

ICPMS Metals

Batch: 138387

Strontium was detected in method blank MB 160-136626/1-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".

Batch: 138741

Zinc was detected in method blank MB 160-138654/1-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 greater than 5x the method blank, the result has been flagged "C".

Anions

Batch: 137143

The matrix spike (MS) recoveries for Nitrite were outside control limits. Sample 7819-10 matrix spike (MS) recovery for Phosphate was outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits. (160-7819-10 MS), (160-7829-7 MS) These analytes have been qualified accordingly with an "N" flag in the associated

Client: CH2M Hill Plateau Remediation Company
Project/Site: F13-018

TestAmerica Job ID: 160-7745-1
SDG: SL1538

Job ID: 160-7745-1 (Continued)

Laboratory: TestAmerica St. Louis (Continued)

samples.

The following samples were diluted to bring the concentration of target analyte Nitrite within the calibration range: B2XLF3 (160-7745-6). Elevated reporting limits (RLs) are provided. This analyte has been qualified accordingly with a "D" flag in the associated samples.

The following samples were received with insufficient time remaining to perform the analysis of Nitrite within 2x holding time: B2XLD8 (160-7745-5), B2XLF3 (160-7745-6), B2XLH7 (160-7745-7). Samples were not run within 2x hold for Nitrite Samples were not received from FedEx until 8/4/14. Sample date was 7/31/14. Per SDR14-286, the sample data for analysis performed outside 2x hold has been reported.

Batch: 137819

Chloride was detected in method blank MB 160-137819/9 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".

The following samples were diluted to bring the concentration of target analytes within the calibration range: B2XLD8 (160-7745-5), B2XLF3 (160-7745-6), B2XLH7 (160-7745-7). Elevated reporting limits (RLs) are provided. These analytes have been qualified accordingly with a "D" flag in the associated samples.

Sample was received with insufficient time remaining to perform the analysis of Nitrate within 2x holding time: B2XLF3 (160-7745-6). Samples were not received from FedEx until 8/4/14. Sample date was 7/31/14. Per SDR14-286, the sample data for analysis performed outside 2x hold has been reported.

The following samples are reporting Nitrate in this batch without associated QC. The sample duplicate required a higher dilution for Nitrate therefore it cannot report in this batch. The samples are associated with a passing LCS. B2XLF3 (160-7745-6)

The matrix spike (MS) recovery for Phosphate (114%) was outside the upper control limit (110%). Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits. (160-7745-5 MS) This analyte has been qualified accordingly with an "N" flag in the associated samples.

Batch: 138782

The following samples were diluted to bring the concentration of target analytes within the calibration range: B2XLD8 (160-7745-5), B2XLH7 (160-7745-7). Elevated reporting limits (RLs) are provided. These analytes have been qualified accordingly with a "D" flag in the associated samples.

Reanalysis of the following samples was performed outside of the analytical holding time for Nitrate due to further dilutions needed: B2XLD8 (160-7745-5), B2XLH7 (160-7745-7). Samples were not received from FedEx until 8/4/14. Sample date was 7/31/14. Per SDR14-286, the sample data for analysis performed outside 2x hold has been reported.

Ammonia**Batch: 138245**

The matrix spike (MS) performed on the following sample is outside % recovery criteria in Ammonia batch 138245: (160-7730-7 MS). Sample matrix interference is suspected, because the associated laboratory control sample (LCS) recovery was within acceptance limits, as was the other MS performed in this batch. This analyte has been qualified accordingly with an "N" flag in the associated samples.

The following sample/sample duplicate is outside RPD limits in Ammonia batch 138245: (160-7730-7 DU), B2XLH4 (160-7730-7). The sample yielded a result of 37.08 ppb, with a duplicate result of 51.06 ppb. The reporting limit (RL) is 50. RPD is not useful for values near the reporting limit. As the sample and its duplicate are within the RL of each other, and less than 5x the RL, these results are reported without flagging.

Client: CH2M Hill Plateau Remediation Company
Project/Site: F13-018

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Job ID: 160-7745-1 (Continued)

Laboratory: TestAmerica St. Louis (Continued)

Sulfide

Batch: 136595

The following sample in batch 136595 was diluted due to the nature of the sample matrix, which would have inhibited proper color change for Sulfide: (160-7745-1 DU), (160-7745-1 MS), B2XLF2 (160-7745-1). As a result of this dilution, the sample is reported non-detect (ND) at dilution with an elevated reporting limit (RL). Sample was non-detect therefore will not have "D" flag.

COD

Batch: 138098

The matrix spike recovery for COD was outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits. (160-7730-7 MS) This analyte has been qualified accordingly with an "N" flag in the associated samples.

TOC

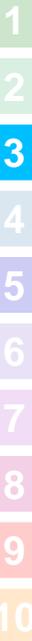
Batch: 137781

Total Organic Carbon was detected in method blank MB 160-137781/4 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".

I certify that this Summary Package is in compliance with the SOW, both technically and for completeness, for other than the conditions detailed above. The Laboratory Manager or a designee, as verified by the signature on the cover page has authorized release of the data contained in this hard copy data package.

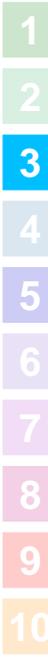
Reviewed and approved:

Jayna Awalt
St. Louis Project Manager



SAMPLE ISSUE RESOLUTION

SIR NUM	SDR14-286
REV NUM	0
DATE INITIATED	8/4/2014



SAMPLE EVENT INFORMATION

SAF NUM(S) F13-018
OPERABLE UNIT(S) 200-ZP-1
PROJECT(S) P&T - 200W
SAMPLE EVENT TITLE(S) 200W Pump & Treat - Misc Sampling
LABORATORY TestAmerica St. Louis

SAMPLING INFORMATION

NUMBER OF SAMPLES 7
SAMPLE NUMBERS B2XLD7, B2XLD8, B2XLD9, B2XLF2, B2XLF3, B2XLF4, B2XLH7
SAMPLE MATRIX WATER
COLLECTION DATE 7/31/2014 - 7/31/2014
SDG NUM SL1538

ISSUE BACKGROUND

CLASS Field Sampling Issue
TYPE Incorrect Sample Preservation
DESCRIPTION The listed samples were delivered by FedEx to TASL on 8/4/2014. Samples were shipped on 7/31/2014 and were meant to be delivered on 8/1/2014 but were delayed by FedEx. Shipping cooler temperature is now outside temp criteria @ 11.3°C. Analyses include metals, total sulfide, anions, ammonia, COD, and TOC.
 For samples B2XLD8, B2XLF3, and B2XLH7 (sampled on 7/31/2014), insufficient time remains to run nitrate, nitrite, and phosphate within 2x holding time. Samples will have to be run outside 2x holding time.

DISPOSITION

DESCRIPTION Proposed Disposition:
 (1) Proceed with all analyses; note sample temperature excursion and nitrate, nitrite, and phosphate analyses performed outside 2x holding time.
 OR
 (2) Cancel nitrate, nitrite, and phosphate determinations; note sample temperature excursion in case narrative for remaining analyses.
 OR
 (3) Cancel all analyses.

JUSTIFICATION Accepted Disposition: Accept Option (1)

Submitted by:	Jayna Awalt / TASL	Date:	8/4/2014
Accepted by:	Mark Carlson / CHPRC	Date:	8/4/2014
Accepted by:	Bob Evans / CHPRC	Date:	8/4/2014

SAMPLE ISSUE RESOLUTION

SIR NUM	SDR14-341
REV NUM	0
DATE INITIATED	9/5/2014

SAMPLE EVENT INFORMATION

SAF NUM(S) F13-018
OPERABLE UNIT(S) 200-ZP-1
PROJECT(S) P&T - 200W
SAMPLE EVENT TITLE(S) 200W Pump & Treat - Misc Sampling
LABORATORY TestAmerica St. Louis

SAMPLING INFORMATION

NUMBER OF SAMPLES 1
SAMPLE NUMBERS B2XLH7
SAMPLE MATRIX WATER
COLLECTION DATE 7/31/2014 - 7/31/2014
SDG NUM SL1538

ISSUE BACKGROUND

CLASS Chain of Custody Issue (Field)
TYPE No/Illegible Relinquish/Receipt Date/Time
DESCRIPTION COC# F13-018-075, Sample B2XLH7, Second relinquish box is missing a time stamp from L.D. Wall.

DISPOSITION

DESCRIPTION PROPOSED DISPOSITION: Document and close

JUSTIFICATION ACCEPTED DISPOSITION: Document and close

SUBMITTED BY: Sara Champoux Date: 9/5/2014
ACCEPTED BY: Sara Champoux Date: 9/5/2014

Login Sample Receipt Checklist

Client: CH2M Hill Plateau Remediation Company

Job Number: 160-7745-1

SDG Number: SL1538

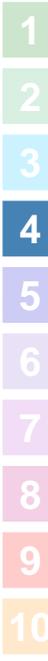
Login Number: 7745

List Source: TestAmerica St. Louis

List Number: 1

Creator: Daniels, Brian J

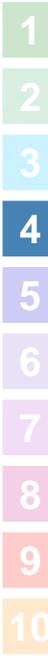
Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	False	Samples were received outside temp. requirements (11.3 °C). Proceeding with analyses with client's approval.
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.	True	
Samples are received within Holding Time.	False	B2XLD8, B2XLF3, AND B2XLH7 received outside of holding time for shorthold anions.
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 <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



CH2M Hill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		F13-018-057	PAGE 1 OF 1
COLLECTOR B.E. Briggs CHPRC	541538	COMPANY CONTACT EVANS, RT	TELEPHONE NO. 373-7924	PROJECT COORDINATOR EVANS, RT	PRICE CODE 7C
SAMPLING LOCATION 289-T, Influent Tank, Valve V04-Y30		PROJECT DESIGNATION 200W Pump & Treat - FBR Micronutrient Analysis - Water	ACTUAL SAMPLE DEPTH N/A	SAF NO. F13-018	AIR QUALITY <input type="checkbox"/>
ICE CHEST NO. 6WS-092		FIELD LOGBOOK NO. HNF-N-507-31		COA 303110ES10	METHOD OF SHIPMENT FEDERAL EXPRESS
SHIPPED TO TestAmerica St. Louis		OFFSITE PROPERTY NO. SEE PTR		BILL OF LADING/AIR BILL NO. 7707 35646578	ORIGINAL

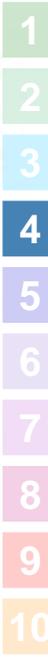
MATRIX* A=Air DL=Drum Liquids DS=Drum Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WT=Wipe X=Other	POSSIBLE SAMPLE HAZARDS/ REMARKS *Contains Radioactive Material at concentrations that are not be regulated for transportation per 49 CFR/IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1.	PRESERVATION HNO3 to pH <2	HOLDING TIME 6 Months	TYPE OF CONTAINER G/P	NO. OF CONTAINER(S) 1	VOLUME 500ml	SAMPLE ANALYSIS SEE ITEM (1) IN SPECIAL INSTRUCTIONS
SPECIAL HANDLING AND/OR STORAGE							
SAMPLE NO. B2XLD7	MATRIX* WATER	SAMPLE DATE JUL 31 2014	SAMPLE TIME 0805				

CHAIN OF POSSESSION		SIGN/ PRINT NAMES		SPECIAL INSTRUCTIONS	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF. TRVL-14-128;	
B.E. Briggs CHPRC	JUL 31 2014 10:10	L.D. Wall X.D. Wood	JUL 31 2014 10:10	(1) 6020_METALS_ICPMS: COMMON {Aluminum, Antimony, Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Lead, Molybdenum, Selenium, Silver}; 6020_METALS_ICPMS: COMMON (Add-on) {Arsenic, Manganese, Nickel, Strontium, Vanadium, Zinc}; 6010_METALS_ICP: COMMON {Calcium, Iron, Magnesium}; 6010_METALS_ICP: COMMON (Add-on) {Boron, Phosphorus};	
L.D. Wall X.D. Wood	JUL 31 2014 1400	FED EX Brian Deaneh	8/4/14 605		
LABORATORY SECTION	RECEIVED BY	TITLE		DATE/TIME	
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	TRVL-14-128		DATE/TIME	



CH2M Hill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		F13-018-059	PAGE 1 OF 1
COLLECTOR B.E. Briggs CHPRC	511538	COMPANY CONTACT EVANS, RT	TELEPHONE NO. 373-7924	PROJECT COORDINATOR EVANS, RT	PRICE CODE 7C
SAMPLING LOCATION 289-T, Influent Tank, Valve V04-Y30		PROJECT DESIGNATION 200W Pump & Treat - FBR Micronutrient Analysis - Water	SAF NO. F13-018	AIR QUALITY	DATA TURNAROUND 15 Days / 15 Days
ICE CHEST NO. 605-092		FIELD LOGBOOK NO. HNF-N-507-31	ACTUAL SAMPLE DEPTH N/A	METHOD OF SHIPMENT FEDERAL EXPRESS	ORIGINAL
SHIPPED TO TestAmerica St. Louis		OFFSITE PROPERTY NO. SEE PTR	BILL OF LADING/AIR BILL NO. SEE PTR	790735646578	
MATRIX* A=Air DL=Drum L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Wipe X=Other	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.	PRESERVATION H2504 to pH <2/Cool <=6C 28 Days	H2504 to pH <2/Cool <=6C 28 Days	H2504 to pH <2/Cool <=6C 28 Days	HCl or H2504 to pH <2/Cool <=6C 28 Days
		HOLDING TIME 6 Months	G/P	G/P	aG
		TYPE OF CONTAINER 1	1	1	1
		NO. OF CONTAINER(S)	500mL	500mL	250mL
		VOLUME	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	350.1 AMMONI A; COMMON (Ammonia);	9060.TOC: COMMON (Total organic carbon);
		SAMPLE ANALYSIS		410.4.COD: COMMON (Chemical Oxygen Demand);	
SAMPLE NO. B2XLD9	MATRIX* WATER	SAMPLE DATE JUL 31 2014	SAMPLE TIME 0805		

CHAIN OF POSSESSION		SIGN/ PRINT NAMES		SPECIAL INSTRUCTIONS	
RELINQUISHED BY/REMOVED FROM B.E. Briggs CHPRC	DATE/TIME JUL 3 1 2014 1040	RECEIVED BY/STORED IN L.B. Wall CHPRC	DATE/TIME JUL 3 1 2014 1040	The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF. TRVL-14-128;	
RELINQUISHED BY/REMOVED FROM L.B. Wall CHPRC	DATE/TIME JUL 3 1 2014 1400	RECEIVED BY/STORED IN FEDEX	DATE/TIME	(1) 6020_METALS_ICPMS: COMMON {Aluminum, Antimony, Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Lead, Molybdenum, Selenium, Silver}; 6020_METALS_ICPMS: COMMON (Add-on) {Arsenic, Manganese, Nickel, Strontium, Vanadium, Zinc}; 6010_METALS_ICP: COMMON {Calcium, Iron, Magnesium}; 6010_METALS_ICP: COMMON (Add-on) {Boron, Phosphorus};	
RELINQUISHED BY/REMOVED FROM FED EX	DATE/TIME	RECEIVED BY/STORED IN B.E. Briggs CHPRC	DATE/TIME July 14 2015	TRVL-14-128	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	FILTER	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
LABORATORY SECTION	RECEIVED BY	TITLE		DATE/TIME	
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY		DATE/TIME	



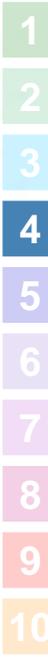
CH2M Hill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		F13-018-058	PAGE 1 OF 1
COLLECTOR	B.E. Briggs CHPRC	SH538	COMPANY CONTACT	EVANS, RT	PROJECT COORDINATOR
SAMPLING LOCATION	289-T, Influent Tank, Valve V04-Y30		PROJECT DESIGNATION	200W Pump & Treat - FBR, Micronutrient Analysis - Water	TELEPHONE NO.
ICE CHEST NO.	6WS-092		FIELD LOGBOOK NO.	HNF-N-507-31	373-7924
SHIPPED TO	TestAmerica St. Louis		OFFSITE PROPERTY NO.	SEE PTR	SAF NO.
					F13-018
					COA
					303110ES10
					BILL OF LADING/AIR BILL NO.
					SEE PTR
					770735646578
					7/31/14

MATRIX*	A=Air DL=Drum L=Liquid DS=Drum S=Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WT=Wipe X=Other	PRESERVATION	Cool <=6C
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.	HOLDING TIME	48 Hours
		TYPE OF CONTAINER	P
		NO. OF CONTAINER(S)	1
		VOLUME	500ml
		SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS
SPECIAL HANDLING AND/OR STORAGE		SAMPLE DATE	JUL 31 2014
		SAMPLE TIME	0805
			✓

SAMPLE NO.	MATRIX*
B2XLD8	WATER

CHAIN OF POSSESSION	SIGN/ PRINT NAMES	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	CHPRC <i>[Signature]</i>	LD, Wall <i>[Signature]</i>	JUL 31 2014 1040
RELINQUISHED BY/REMOVED FROM	CHPRC <i>[Signature]</i>	CHPRC <i>[Signature]</i>	JUL 31 2014 1040
RELINQUISHED BY/REMOVED FROM	FED EX	FEDEX	JUL 31 2014 1400
RELINQUISHED BY/REMOVED FROM		Brian Jones <i>[Signature]</i>	8/4/14 10:15
RELINQUISHED BY/REMOVED FROM			

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME



FILTER TRVL-14-128

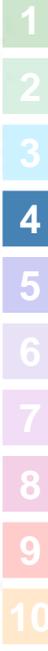
FILTER

CH2M Hill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		F13-018-063	PAGE 1 OF 1
COLLECTOR B.E. Briggs CHPRC	SH1538	COMPANY CONTACT EVANS, RT	TELEPHONE NO. 373-7924	PROJECT COORDINATOR EVANS, RT	PRICE CODE 7C
SAMPLING LOCATION 289-T, FBR-A Effluent, valve V25-Y40A1		PROJECT DESIGNATION 200W Pump & Treat - FBR Micronutrient Analysis - Water	ACTUAL SAMPLE DEPTH N/A	SAF NO. F13-018	AIR QUALITY <input type="checkbox"/>
ICE CHEST NO. 6WS-092		FIELD LOGBOOK NO. HNF-N-507-31		COA 303110ES10	METHOD OF SHIPMENT FEDERAL EXPRESS
SHIPPED TO TestAmerica St. Louis		OFFSITE PROPERTY NO. SEE PTR		BILL OF LADING/AIR BILL NO. SEE PTR 770735646578	

MATRIX* A=Air DL=Drum L=Liquid DS=Drum S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Wipe X=Other	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.	PRESERVATION Cool <=6C	HOLDING TIME 48 Hours	TYPE OF CONTAINER P	NO. OF CONTAINER(S) 1	VOLUME 500mL	SAMPLE ANALYSIS SEE ITEM (1) IN SPECIAL INSTRUCTIONS
SPECIAL HANDLING AND/OR STORAGE		SAMPLE DATE JUL 31 2014	SAMPLE TIME 0905	✓			

FILTER

CHAIN OF POSSESSION		SIGN/ PRINT NAMES		SPECIAL INSTRUCTIONS	
RELINQUISHED BY/REMOVED FROM B.E. Briggs CHPRC	DATE/TIME JUL 31 2014 1040	RECEIVED BY/STORED IN L.D. Wall	DATE/TIME JUL 31 2014 1040	The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF. Filtering shall be performed by SGRP Field Sampling Services using a (0.45µm) filter while in the field. TRVL-14-128;	
RELINQUISHED BY/REMOVED FROM L.D. Wall	DATE/TIME JUL 31 2014 1400	RECEIVED BY/STORED IN FEDEX	DATE/TIME JUL 31 2014 1400	(1) 300.0_ANIONS_IC: COMMON {Chloride, Nitrogen in Nitrate, Nitrogen in Nitrite, Sulfate}; 300.0_ANIONS_IC: COMMON (Add-on) {Phosphate};	
RELINQUISHED BY/REMOVED FROM FED EX	DATE/TIME	RECEIVED BY/STORED IN L.D. Wall	DATE/TIME	FILTER TRVL-14-128	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
LABORATORY SECTION	RECEIVED BY	TITLE		DATE/TIME	
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY		DATE/TIME	



CH2M Hill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		F13-018-075	PAGE 1 OF 1
COLLECTOR B.E. Briggs CHPRC	511538	COMPANY CONTACT EVANS, RT	TELEPHONE NO. 373-7924	PROJECT COORDINATOR EVANS, RT	PRICE CODE 7C
SAMPLING LOCATION 289-T, Influent Tank, Valve V04-Y30		PROJECT DESIGNATION 200W Pump & Treat - FBR Micronutrient Analysis - Water		SAF NO. F13-018	AIR QUALITY <input type="checkbox"/>
ICE CHEST NO. 6WS-092		FIELD LOGBOOK NO. HNF-N-507-31	ACTUAL SAMPLE DEPTH N/A	COA 303110ES10	METHOD OF SHIPMENT FEDERAL EXPRESS
SHIPPED TO TestAmerica St. Louis		OFFSITE PROPERTY NO. SEE PTR		BILL OF LADING/AIR BILL NO. 770735646578 7/31/14	

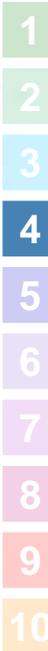
MATRIX*	POSSIBLE SAMPLE HAZARDS/ REMARKS	PRESERVATION	HOLDING TIME	TYPE OF CONTAINER	NO. OF CONTAINER(S)	VOLUME	SAMPLE ANALYSIS
A=Air DL=Drum L=Liquid DS=Drum S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Wipe X=Other	*Contains Radioactive Material at concentrations that are not be regulated for transportation per 49 CFR/IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1.	Cool <=6C	48 Hours	P	1	500ml	SEE ITEM (1) IN SPECIAL INSTRUCTIONS
B2XLH7	WATER						JUL 31 2014 0805 ✓

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B2XLH7	WATER	JUL 31 2014	0805

CHAIN OF POSSESSION	SIGN/ PRINT NAMES	DATE/TIME	DATE/TIME
RELINQUISHED BY/REMOVED FROM CHPRC <i>B.E. Briggs</i>	RECEIVED BY/STORED IN L.D. Wall CHPRC <i>L.D. Wall</i>	JUL 31 2014	JUL 31 2014 1010
RELINQUISHED BY/REMOVED FROM L.D. Wall	RECEIVED BY/STORED IN FED EX	JUL 31 2014	
RELINQUISHED BY/REMOVED FROM FED EX	RECEIVED BY/STORED IN <i>B.E. Briggs</i>		8/14/14
RELINQUISHED BY/REMOVED FROM	RECEIVED BY/STORED IN		
RELINQUISHED BY/REMOVED FROM	RECEIVED BY/STORED IN		
RELINQUISHED BY/REMOVED FROM	RECEIVED BY/STORED IN		
RELINQUISHED BY/REMOVED FROM	RECEIVED BY/STORED IN		

SPECIAL INSTRUCTIONS
 The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF. TRVL-14-128;
 (1) 300.0_ANIONS_IC: COMMON {Chloride, Nitrogen in Nitrate, Nitrogen in Nitrite, Sulfate}; 300.0_ANIONS_IC: COMMON (Add-on) {Phosphate};
LAB: Do not dilute. Need low MDL
 TRVL-14-128

LABORATORY SECTION	RECEIVED BY	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DATE/TIME



FedEx[®] Tracking

770735646578

Ship (P/U) date :
Thur 7/31/2014 3:52 pm

Actual delivery :
Mon 8/04/2014 10:15 am

RICHLAND, WA US

Delivered

EARTH CITY, MO US

Signed for by: B.DANIELS

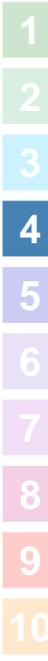
Let us tell you when your shipment arrives. Sign up for delivery notifications

Travel History

Date/Time	Activity	Location
8/04/2014 - Monday		
10:15 am	Delivered	EARTH CITY, MO
6:17 am	On FedEx vehicle for delivery	EARTH CITY, MO
6:13 am	At local FedEx facility	EARTH CITY, MO
8/01/2014 - Friday		
10:00 pm	At destination sort facility	BERKELEY, MO
4:34 pm	Departed FedEx location	MEMPHIS, TN
12:34 am	Arrived at FedEx location	MEMPHIS, TN
7/31/2014 - Thursday		
5:09 pm	Left FedEx origin facility	PASCO, WA
3:52 pm	Picked up	PASCO, WA
3:12 pm	Shipment information sent to FedEx	

Shipment Facts

Tracking number	770735646578	Service	FedEx Priority Overnight
Weight	75 lbs / 34.02 kgs	Delivered To	Shipping/Receiving
Total pieces	1	Total shipment weight	75 lbs / 34.02 kgs
Shipper reference	gws-092	Packaging	Your Packaging
Special handling section	Deliver Weekday		



Client: CH2M Hill Plateau Remediation Company
 Project/Site: F13-018

TestAmerica Job ID: 160-7745-1
 SDG: SL1538

Qualifiers

Metals

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 associated QC blank, and the sample concentration was <= 5X the blank concentration.

General Chemistry

Qualifier	Qualifier Description
U	Analyzed for but not detected.
N	MS, MSD: Spike recovery exceeds upper or lower control limits.
B	Estimated result. Result is less than the RL, but greater than MDL
D	The reported value is from a dilution.
C	The analyte was detected in both the sample and the associated QC blank, and the sample concentration was <= 5X the blank concentration.

Glossary

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

Client: CH2M Hill Plateau Remediation Company
 Project/Site: F13-018

TestAmerica Job ID: 160-7745-1
 SDG: SL1538

Method	Method Description	Protocol	Laboratory
6010C	Metals (ICP)	SW846	TAL SL
6020A	Metals (ICP/MS)	SW846	TAL SL
300.0	Anions, Ion Chromatography	MCAWW	TAL SL
350.1	Nitrogen, Ammonia	MCAWW	TAL SL
376.1	Sulfide	MCAWW	TAL SL
410.4	COD	MCAWW	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



Client: CH2M Hill Plateau Remediation Company
Project/Site: F13-018

TestAmerica Job ID: 160-7745-1
SDG: SL1538

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
160-7745-1	B2XLF2	Water	07/31/14 09:05	08/04/14 10:15
160-7745-2	B2XLF4	Water	07/31/14 09:05	08/04/14 10:15
160-7745-3	B2XLD7	Water	07/31/14 08:05	08/04/14 10:15
160-7745-4	B2XLD9	Water	07/31/14 08:05	08/04/14 10:15
160-7745-5	B2XLD8	Water	07/31/14 08:05	08/04/14 10:15
160-7745-6	B2XLF3	Water	07/31/14 09:05	08/04/14 10:15
160-7745-7	B2XLH7	Water	07/31/14 08:05	08/04/14 10:15



Client: CH2M Hill Plateau Remediation Company
Project/Site: F13-018

TestAmerica Job ID: 160-7745-1
SDG: SL1538

Method: 6010C - Metals (ICP)

Client Sample ID: B2XLF2
Date Collected: 07/31/14 09:05
Date Received: 08/04/14 10:15

Lab Sample ID: 160-7745-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	64.6		50.0	7.2	ug/L		08/07/14 12:21	08/14/14 18:08	1
Phosphorus	1460		250	13.8	ug/L		08/07/14 12:21	08/14/14 18:08	1
Calcium	61200		1000	54.2	ug/L		08/07/14 12:21	08/14/14 18:08	1
Iron	684		100	12.8	ug/L		08/07/14 12:21	08/14/14 18:08	1
Magnesium	18800		1000	50.5	ug/L		08/07/14 12:21	08/14/14 18:08	1

Client Sample ID: B2XLF4
Date Collected: 07/31/14 09:05
Date Received: 08/04/14 10:15

Lab Sample ID: 160-7745-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	66.4		50.0	7.2	ug/L		08/07/14 12:21	08/14/14 18:23	1
Phosphorus	674		250	13.8	ug/L		08/07/14 12:21	08/14/14 18:23	1
Calcium	59500		1000	54.2	ug/L		08/07/14 12:21	08/14/14 18:23	1
Iron	76.0	B	100	12.8	ug/L		08/07/14 12:21	08/14/14 18:23	1
Magnesium	18200		1000	50.5	ug/L		08/07/14 12:21	08/14/14 18:23	1

Client Sample ID: B2XLD7
Date Collected: 07/31/14 08:05
Date Received: 08/04/14 10:15

Lab Sample ID: 160-7745-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	41.7	B	50.0	7.2	ug/L		08/07/14 12:21	08/14/14 18:27	1
Phosphorus	510		250	13.8	ug/L		08/07/14 12:21	08/14/14 18:27	1
Calcium	62800		1000	54.2	ug/L		08/07/14 12:21	08/14/14 18:27	1
Iron	207		100	12.8	ug/L		08/07/14 12:21	08/14/14 18:27	1
Magnesium	18700		1000	50.5	ug/L		08/07/14 12:21	08/14/14 18:27	1

Client Sample ID: B2XLD9
Date Collected: 07/31/14 08:05
Date Received: 08/04/14 10:15

Lab Sample ID: 160-7745-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	44.9	B	50.0	7.2	ug/L		08/07/14 12:21	08/14/14 18:38	1
Phosphorus	13.8	U	250	13.8	ug/L		08/07/14 12:21	08/14/14 18:38	1
Calcium	63100		1000	54.2	ug/L		08/07/14 12:21	08/14/14 18:38	1
Iron	12.8	U	100	12.8	ug/L		08/07/14 12:21	08/14/14 18:38	1
Magnesium	19300		1000	50.5	ug/L		08/07/14 12:21	08/14/14 18:38	1

Method: 6020A - Metals (ICP/MS)

Client Sample ID: B2XLF2
Date Collected: 07/31/14 09:05
Date Received: 08/04/14 10:15

Lab Sample ID: 160-7745-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	45.2		30.0	12.9	ug/L		08/07/14 12:17	08/17/14 04:22	2
Antimony	1.7	U	5.0	1.7	ug/L		08/07/14 12:17	08/17/14 04:22	2
Arsenic	2.3	B	10.0	1.2	ug/L		08/07/14 12:17	08/17/14 04:22	2
Barium	57.9		2.0	0.22	ug/L		08/07/14 12:17	08/17/14 04:22	2
Beryllium	0.35	U	0.50	0.35	ug/L		08/07/14 12:17	08/17/14 04:22	2
Cadmium	0.10	U	0.50	0.10	ug/L		08/07/14 12:17	08/17/14 04:22	2
Chromium	18.4		10.0	1.0	ug/L		08/07/14 12:17	08/17/14 04:22	2
Cobalt	19.4		2.0	0.22	ug/L		08/07/14 12:17	08/17/14 04:22	2

TestAmerica St. Louis

Client: CH2M Hill Plateau Remediation Company
Project/Site: F13-018

TestAmerica Job ID: 160-7745-1
SDG: SL1538

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

Client Sample ID: B2XLF2
Date Collected: 07/31/14 09:05
Date Received: 08/04/14 10:15

Lab Sample ID: 160-7745-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	58.7		1.0	0.45	ug/L		08/07/14 12:17	08/19/14 04:01	2
Lead	0.17	U	3.0	0.17	ug/L		08/07/14 12:17	08/17/14 04:22	2
Manganese	76.9		2.0	0.25	ug/L		08/07/14 12:17	08/17/14 04:22	2
Molybdenum	33.1		5.0	1.0	ug/L		08/07/14 12:17	08/17/14 04:22	2
Nickel	9.3		5.0	0.40	ug/L		08/07/14 12:17	08/17/14 04:22	2
Selenium	3.3	B	5.0	1.6	ug/L		08/07/14 12:17	08/17/14 04:22	2
Silver	0.82	U	2.0	0.82	ug/L		08/07/14 12:17	08/17/14 04:22	2
Strontium	246		5.0	0.060	ug/L		08/07/14 12:17	08/17/14 04:22	2
Vanadium	27.6		10.0	2.4	ug/L		08/07/14 12:17	08/17/14 04:22	2

Client Sample ID: B2XLF4
Date Collected: 07/31/14 09:05
Date Received: 08/04/14 10:15

Lab Sample ID: 160-7745-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	17.0	B	30.0	12.9	ug/L		08/07/14 12:17	08/17/14 04:48	2
Antimony	1.7	U	5.0	1.7	ug/L		08/07/14 12:17	08/17/14 04:48	2
Arsenic	2.1	B	10.0	1.2	ug/L		08/07/14 12:17	08/17/14 04:48	2
Barium	57.5		2.0	0.22	ug/L		08/07/14 12:17	08/17/14 04:48	2
Beryllium	0.43	B	0.50	0.35	ug/L		08/07/14 12:17	08/17/14 04:48	2
Cadmium	0.10	U	0.50	0.10	ug/L		08/07/14 12:17	08/17/14 04:48	2
Chromium	8.3	B	10.0	1.0	ug/L		08/07/14 12:17	08/17/14 04:48	2
Cobalt	21.3		2.0	0.22	ug/L		08/07/14 12:17	08/17/14 04:48	2
Copper	2.2		1.0	0.45	ug/L		08/07/14 12:17	08/19/14 04:28	2
Lead	0.17	B	3.0	0.17	ug/L		08/07/14 12:17	08/17/14 04:48	2
Manganese	82.2		2.0	0.25	ug/L		08/07/14 12:17	08/17/14 04:48	2
Molybdenum	33.9		5.0	1.0	ug/L		08/07/14 12:17	08/17/14 04:48	2
Nickel	9.4		5.0	0.40	ug/L		08/07/14 12:17	08/17/14 04:48	2
Selenium	2.3	B	5.0	1.6	ug/L		08/07/14 12:17	08/17/14 04:48	2
Silver	0.82	U	2.0	0.82	ug/L		08/07/14 12:17	08/17/14 04:48	2
Strontium	269		5.0	0.060	ug/L		08/07/14 12:17	08/17/14 04:48	2
Vanadium	29.2		10.0	2.4	ug/L		08/07/14 12:17	08/17/14 04:48	2

Client Sample ID: B2XLD7
Date Collected: 07/31/14 08:05
Date Received: 08/04/14 10:15

Lab Sample ID: 160-7745-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	671		30.0	12.9	ug/L		08/07/14 12:17	08/17/14 04:55	2
Antimony	1.7	U	5.0	1.7	ug/L		08/07/14 12:17	08/17/14 04:55	2
Arsenic	2.3	B	10.0	1.2	ug/L		08/07/14 12:17	08/17/14 04:55	2
Barium	97.8		2.0	0.22	ug/L		08/07/14 12:17	08/17/14 04:55	2
Beryllium	0.45	B	0.50	0.35	ug/L		08/07/14 12:17	08/17/14 04:55	2
Cadmium	0.10	U	0.50	0.10	ug/L		08/07/14 12:17	08/17/14 04:55	2
Chromium	34.8		10.0	1.0	ug/L		08/07/14 12:17	08/17/14 04:55	2
Cobalt	0.97	B	2.0	0.22	ug/L		08/07/14 12:17	08/17/14 04:55	2
Copper	4.1		1.0	0.45	ug/L		08/07/14 12:17	08/19/14 04:34	2
Lead	0.85	B	3.0	0.17	ug/L		08/07/14 12:17	08/17/14 04:55	2
Manganese	53.3		2.0	0.25	ug/L		08/07/14 12:17	08/17/14 04:55	2
Molybdenum	3.7	B	5.0	1.0	ug/L		08/07/14 12:17	08/17/14 04:55	2
Nickel	4.1	B	5.0	0.40	ug/L		08/07/14 12:17	08/17/14 04:55	2
Selenium	3.7	B	5.0	1.6	ug/L		08/07/14 12:17	08/17/14 04:55	2

TestAmerica St. Louis

Client: CH2M Hill Plateau Remediation Company
Project/Site: F13-018

TestAmerica Job ID: 160-7745-1
SDG: SL1538

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

Client Sample ID: B2XLD7
Date Collected: 07/31/14 08:05
Date Received: 08/04/14 10:15

Lab Sample ID: 160-7745-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.82	U	2.0	0.82	ug/L		08/07/14 12:17	08/17/14 04:55	2
Strontium	326		5.0	0.060	ug/L		08/07/14 12:17	08/17/14 04:55	2
Vanadium	40.1		10.0	2.4	ug/L		08/07/14 12:17	08/17/14 04:55	2

Client Sample ID: B2XLD9
Date Collected: 07/31/14 08:05
Date Received: 08/04/14 10:15

Lab Sample ID: 160-7745-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	12.9	U	30.0	12.9	ug/L		08/07/14 12:17	08/17/14 05:02	2
Antimony	1.7	U	5.0	1.7	ug/L		08/07/14 12:17	08/17/14 05:02	2
Arsenic	2.5	B	10.0	1.2	ug/L		08/07/14 12:17	08/17/14 05:02	2
Barium	76.8		2.0	0.22	ug/L		08/07/14 12:17	08/17/14 05:02	2
Beryllium	0.35	U	0.50	0.35	ug/L		08/07/14 12:17	08/17/14 05:02	2
Cadmium	0.10	U	0.50	0.10	ug/L		08/07/14 12:17	08/17/14 05:02	2
Chromium	30.0		10.0	1.0	ug/L		08/07/14 12:17	08/17/14 05:02	2
Cobalt	0.22	U	2.0	0.22	ug/L		08/07/14 12:17	08/17/14 05:02	2
Copper	0.45	U	1.0	0.45	ug/L		08/07/14 12:17	08/19/14 04:41	2
Lead	0.17	U	3.0	0.17	ug/L		08/07/14 12:17	08/17/14 05:02	2
Manganese	0.55	B	2.0	0.25	ug/L		08/07/14 12:17	08/17/14 05:02	2
Molybdenum	4.6	B	5.0	1.0	ug/L		08/07/14 12:17	08/17/14 05:02	2
Nickel	0.61	B	5.0	0.40	ug/L		08/07/14 12:17	08/17/14 05:02	2
Selenium	2.5	B	5.0	1.6	ug/L		08/07/14 12:17	08/17/14 05:02	2
Silver	0.82	U	2.0	0.82	ug/L		08/07/14 12:17	08/17/14 05:02	2
Strontium	309		5.0	0.060	ug/L		08/07/14 12:17	08/17/14 05:02	2
Vanadium	36.1		10.0	2.4	ug/L		08/07/14 12:17	08/17/14 05:02	2

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

Client Sample ID: B2XLF2
Date Collected: 07/31/14 09:05
Date Received: 08/04/14 10:15

Lab Sample ID: 160-7745-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	40.2	C	10.0	8.3	ug/L		08/18/14 15:29	08/19/14 20:01	2

Client Sample ID: B2XLF4
Date Collected: 07/31/14 09:05
Date Received: 08/04/14 10:15

Lab Sample ID: 160-7745-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	34.4	C	10.0	8.3	ug/L		08/18/14 15:29	08/19/14 20:27	2

Client Sample ID: B2XLD7
Date Collected: 07/31/14 08:05
Date Received: 08/04/14 10:15

Lab Sample ID: 160-7745-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	12.6	C	10.0	8.3	ug/L		08/18/14 15:29	08/19/14 20:34	2

Client Sample ID: B2XLD9
Date Collected: 07/31/14 08:05
Date Received: 08/04/14 10:15

Lab Sample ID: 160-7745-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	8.3	U	10.0	8.3	ug/L		08/18/14 15:29	08/19/14 20:41	2

TestAmerica St. Louis

Client: CH2M Hill Plateau Remediation Company
Project/Site: F13-018

TestAmerica Job ID: 160-7745-1
SDG: SL1538

General Chemistry

Client Sample ID: B2XLF4
Date Collected: 07/31/14 09:05
Date Received: 08/04/14 10:15

Lab Sample ID: 160-7745-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	23.1	B N	50.0	8.3	ug/L			08/16/14 11:07	1
Chemical Oxygen Demand	10.0	B	20.0	6.5	mg/L		08/14/14 13:21	08/14/14 16:03	1
Total Organic Carbon	1.8		1.0	0.27	mg/L			08/12/14 18:26	1

Client Sample ID: B2XLD9
Date Collected: 07/31/14 08:05
Date Received: 08/04/14 10:15

Lab Sample ID: 160-7745-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	8.3	U N	50.0	8.3	ug/L			08/16/14 11:08	1
Chemical Oxygen Demand	6.5	U	20.0	6.5	mg/L		08/14/14 13:21	08/14/14 16:03	1
Total Organic Carbon	0.41	B C	1.0	0.27	mg/L			08/12/14 18:40	1

Client Sample ID: B2XLD8
Date Collected: 07/31/14 08:05
Date Received: 08/04/14 10:15

Lab Sample ID: 160-7745-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	0.0030	U N	0.020	0.0030	mg/L			08/09/14 08:42	1
Phosphate	0.078	U N	0.50	0.078	mg/L			08/05/14 19:38	1

Client Sample ID: B2XLF3
Date Collected: 07/31/14 09:05
Date Received: 08/04/14 10:15

Lab Sample ID: 160-7745-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphate	2.7	N	0.50	0.078	mg/L			08/06/14 02:05	1

Client Sample ID: B2XLH7
Date Collected: 07/31/14 08:05
Date Received: 08/04/14 10:15

Lab Sample ID: 160-7745-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	0.0030	U N	0.020	0.0030	mg/L			08/09/14 09:53	1
Phosphate	0.078	U N	0.50	0.078	mg/L			08/06/14 03:51	1

General Chemistry - DL

Client Sample ID: B2XLF2
Date Collected: 07/31/14 09:05
Date Received: 08/04/14 10:15

Lab Sample ID: 160-7745-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	18.1	U	40.0	18.1	mg/L			08/07/14 10:00	4

Client Sample ID: B2XLD8
Date Collected: 07/31/14 08:05
Date Received: 08/04/14 10:15

Lab Sample ID: 160-7745-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	22.9	D	1.0	0.20	mg/L			08/19/14 01:27	50
Sulfate	50.1	D	2.5	0.25	mg/L			08/05/14 20:13	5

Client: CH2M Hill Plateau Remediation Company
Project/Site: F13-018

TestAmerica Job ID: 160-7745-1
SDG: SL1538

General Chemistry - DL

Client Sample ID: B2XLF3
Date Collected: 07/31/14 09:05
Date Received: 08/04/14 10:15

Lab Sample ID: 160-7745-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	3.4	D	0.10	0.020	mg/L			08/06/14 02:41	5
Nitrite as N	2.0	D N	0.20	0.030	mg/L			08/09/14 09:18	10
Sulfate	53.4	D	2.5	0.25	mg/L			08/06/14 02:41	5

Client Sample ID: B2XLH7
Date Collected: 07/31/14 08:05
Date Received: 08/04/14 10:15

Lab Sample ID: 160-7745-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	23.9	D	1.0	0.20	mg/L			08/19/14 02:13	50
Sulfate	51.8	D	2.5	0.25	mg/L			08/06/14 04:27	5

General Chemistry - DL2

Client Sample ID: B2XLD8
Date Collected: 07/31/14 08:05
Date Received: 08/04/14 10:15

Lab Sample ID: 160-7745-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	27.4	D	2.0	0.20	mg/L			08/05/14 20:48	10

Client Sample ID: B2XLF3
Date Collected: 07/31/14 09:05
Date Received: 08/04/14 10:15

Lab Sample ID: 160-7745-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	28.5	D	2.0	0.20	mg/L			08/06/14 03:16	10

Client Sample ID: B2XLH7
Date Collected: 07/31/14 08:05
Date Received: 08/04/14 10:15

Lab Sample ID: 160-7745-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	27.4	D	2.0	0.20	mg/L			08/06/14 05:02	10

Client: CH2M Hill Plateau Remediation Company
Project/Site: F13-018

TestAmerica Job ID: 160-7745-1
SDG: SL1538

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 160-136628/1-A
Matrix: Water
Analysis Batch: 138138

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 136628

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	7.2	U	50.0	7.2	ug/L		08/07/14 12:21	08/14/14 18:01	1
Phosphorus	13.8	U	250	13.8	ug/L		08/07/14 12:21	08/14/14 18:01	1
Calcium	95.90	B	1000	54.2	ug/L		08/07/14 12:21	08/14/14 18:01	1
Iron	12.8	U	100	12.8	ug/L		08/07/14 12:21	08/14/14 18:01	1
Magnesium	50.5	U	1000	50.5	ug/L		08/07/14 12:21	08/14/14 18:01	1

Lab Sample ID: LCS 160-136628/2-A
Matrix: Water
Analysis Batch: 138138

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 136628

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Boron	2000	1739		ug/L		87	80 - 120
Phosphorus	1000	1010		ug/L		101	80 - 120
Calcium	10000	9988		ug/L		100	80 - 120
Iron	10000	9018		ug/L		90	80 - 120
Magnesium	10000	8366		ug/L		84	80 - 120

Lab Sample ID: 160-7745-1 MS
Matrix: Water
Analysis Batch: 138138

Client Sample ID: B2XLF2
Prep Type: Total/NA
Prep Batch: 136628

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Boron	64.6		2000	2041		ug/L		99	75 - 125
Phosphorus	1460		1000	2589		ug/L		113	75 - 125
Calcium	61200		10000	69620		ug/L		85	75 - 125
Iron	684		10000	10620		ug/L		99	75 - 125
Magnesium	18800		10000	27780		ug/L		90	75 - 125

Lab Sample ID: 160-7745-1 MSD
Matrix: Water
Analysis Batch: 138138

Client Sample ID: B2XLF2
Prep Type: Total/NA
Prep Batch: 136628

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Boron	64.6		2000	2030		ug/L		98	75 - 125	1	20
Phosphorus	1460		1000	2674		ug/L		121	75 - 125	3	20
Calcium	61200		10000	68100		ug/L		70	75 - 125	2	20
Iron	684		10000	10340		ug/L		97	75 - 125	3	20
Magnesium	18800		10000	26780		ug/L		80	75 - 125	4	20

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 160-136626/1-A
Matrix: Water
Analysis Batch: 138387

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 136626

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	12.9	U	30.0	12.9	ug/L		08/07/14 12:17	08/17/14 04:08	2
Antimony	1.7	U	5.0	1.7	ug/L		08/07/14 12:17	08/17/14 04:08	2
Arsenic	1.2	U	10.0	1.2	ug/L		08/07/14 12:17	08/17/14 04:08	2

TestAmerica St. Louis

Client: CH2M Hill Plateau Remediation Company
Project/Site: F13-018

TestAmerica Job ID: 160-7745-1
SDG: SL1538

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

Lab Sample ID: MB 160-136626/1-A
Matrix: Water
Analysis Batch: 138387

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 136626

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Barium	0.22	U	2.0	0.22	ug/L		08/07/14 12:17	08/17/14 04:08	2
Beryllium	0.35	U	0.50	0.35	ug/L		08/07/14 12:17	08/17/14 04:08	2
Cadmium	0.10	U	0.50	0.10	ug/L		08/07/14 12:17	08/17/14 04:08	2
Chromium	1.0	U	10.0	1.0	ug/L		08/07/14 12:17	08/17/14 04:08	2
Cobalt	0.22	U	2.0	0.22	ug/L		08/07/14 12:17	08/17/14 04:08	2
Lead	0.17	U	3.0	0.17	ug/L		08/07/14 12:17	08/17/14 04:08	2
Manganese	0.25	U	2.0	0.25	ug/L		08/07/14 12:17	08/17/14 04:08	2
Molybdenum	1.0	U	5.0	1.0	ug/L		08/07/14 12:17	08/17/14 04:08	2
Nickel	0.40	U	5.0	0.40	ug/L		08/07/14 12:17	08/17/14 04:08	2
Selenium	1.6	U	5.0	1.6	ug/L		08/07/14 12:17	08/17/14 04:08	2
Silver	0.82	U	2.0	0.82	ug/L		08/07/14 12:17	08/17/14 04:08	2
Strontium	0.108	B	5.0	0.060	ug/L		08/07/14 12:17	08/17/14 04:08	2
Vanadium	2.4	U	10.0	2.4	ug/L		08/07/14 12:17	08/17/14 04:08	2

Lab Sample ID: MB 160-136626/1-A
Matrix: Water
Analysis Batch: 138741

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 136626

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Copper	0.45	U	1.0	0.45	ug/L		08/07/14 12:17	08/19/14 03:47	2

Lab Sample ID: LCS 160-136626/2-A
Matrix: Water
Analysis Batch: 138387

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 136626

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.	
							Limits	
Aluminum	10000	9887		ug/L		99	80 - 120	
Antimony	500	505.2		ug/L		101	80 - 120	
Arsenic	1000	989.4		ug/L		99	80 - 120	
Barium	1000	989.5		ug/L		99	80 - 120	
Beryllium	1000	1023		ug/L		102	80 - 120	
Cadmium	1000	972.8		ug/L		97	80 - 120	
Chromium	1000	997.7		ug/L		100	80 - 120	
Cobalt	1000	1009		ug/L		101	80 - 120	
Lead	1000	1003		ug/L		100	80 - 120	
Manganese	1000	1013		ug/L		101	80 - 120	
Molybdenum	500	535.1		ug/L		107	80 - 120	
Nickel	1000	995.6		ug/L		100	80 - 120	
Selenium	500	472.1		ug/L		94	80 - 120	
Silver	200	194.1		ug/L		97	80 - 120	
Strontium	1000	987.8		ug/L		99	80 - 120	
Vanadium	1000	1023		ug/L		102	80 - 120	

Lab Sample ID: LCS 160-136626/2-A
Matrix: Water
Analysis Batch: 138741

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 136626

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.	
							Limits	
Copper	1000	1050		ug/L		105	80 - 120	

TestAmerica St. Louis

Client: CH2M Hill Plateau Remediation Company
Project/Site: F13-018

TestAmerica Job ID: 160-7745-1
SDG: SL1538

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

Lab Sample ID: 160-7745-1 MS
Matrix: Water
Analysis Batch: 138387

Client Sample ID: B2XLF2
Prep Type: Total/NA
Prep Batch: 136626

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	45.2		10000	10060		ug/L		100	75 - 125
Antimony	1.7	U	500	531.8		ug/L		106	75 - 125
Arsenic	2.3	B	1000	1011		ug/L		101	75 - 125
Barium	57.9		1000	1068		ug/L		101	75 - 125
Beryllium	0.35	U	1000	1063		ug/L		106	75 - 125
Cadmium	0.10	U	1000	1000		ug/L		100	75 - 125
Chromium	18.4		1000	1023		ug/L		100	75 - 125
Cobalt	19.4		1000	1024		ug/L		100	75 - 125
Lead	0.17	U	1000	1031		ug/L		103	75 - 125
Manganese	76.9		1000	1092		ug/L		102	75 - 125
Molybdenum	33.1		500	566.5		ug/L		107	75 - 125
Nickel	9.3		1000	992.8		ug/L		98	75 - 125
Selenium	3.3	B	500	480.8		ug/L		95	75 - 125
Silver	0.82	U	200	201.6		ug/L		101	75 - 125
Strontium	246		1000	1204		ug/L		96	75 - 125
Vanadium	27.6		1000	1068		ug/L		104	75 - 125

Lab Sample ID: 160-7745-1 MS
Matrix: Water
Analysis Batch: 138741

Client Sample ID: B2XLF2
Prep Type: Total/NA
Prep Batch: 136626

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Copper	58.7		1000	1067		ug/L		101	75 - 125

Lab Sample ID: 160-7745-1 MSD
Matrix: Water
Analysis Batch: 138387

Client Sample ID: B2XLF2
Prep Type: Total/NA
Prep Batch: 136626

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	45.2		10000	10230		ug/L		102	75 - 125	2	20
Antimony	1.7	U	500	554.1		ug/L		111	75 - 125	4	20
Arsenic	2.3	B	1000	1020		ug/L		102	75 - 125	1	20
Barium	57.9		1000	1094		ug/L		104	75 - 125	2	20
Beryllium	0.35	U	1000	1086		ug/L		109	75 - 125	2	20
Cadmium	0.10	U	1000	1036		ug/L		104	75 - 125	4	20
Chromium	18.4		1000	1056		ug/L		104	75 - 125	3	20
Cobalt	19.4		1000	1029		ug/L		101	75 - 125	0	20
Lead	0.17	U	1000	1063		ug/L		106	75 - 125	3	20
Manganese	76.9		1000	1100		ug/L		102	75 - 125	1	20
Molybdenum	33.1		500	582.8		ug/L		110	75 - 125	3	20
Nickel	9.3		1000	1003		ug/L		99	75 - 125	1	20
Selenium	3.3	B	500	490.4		ug/L		97	75 - 125	2	20
Silver	0.82	U	200	210.6		ug/L		105	75 - 125	4	20
Strontium	246		1000	1229		ug/L		98	75 - 125	2	20
Vanadium	27.6		1000	1097		ug/L		107	75 - 125	3	20

TestAmerica St. Louis

Client: CH2M Hill Plateau Remediation Company
Project/Site: F13-018

TestAmerica Job ID: 160-7745-1
SDG: SL1538

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

Lab Sample ID: 160-7745-1 MSD
Matrix: Water
Analysis Batch: 138741

Client Sample ID: B2XLF2
Prep Type: Total/NA
Prep Batch: 136626

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Copper	58.7		1000	1091		ug/L		103	75 - 125	2	20

Lab Sample ID: MB 160-138654/1-A
Matrix: Water
Analysis Batch: 139012

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 138654

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	9.97	B	10.0	8.3	ug/L		08/18/14 15:29	08/19/14 19:47	2

Lab Sample ID: LCS 160-138654/2-A
Matrix: Water
Analysis Batch: 139012

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 138654

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Zinc	1000	999.0		ug/L		100	80 - 120

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

Lab Sample ID: 160-7745-1 MS
Matrix: Water
Analysis Batch: 139012

Client Sample ID: B2XLF2
Prep Type: Total/NA
Prep Batch: 138654

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Zinc - RE	40.2	C	1000	969.6		ug/L		93	75 - 125

Lab Sample ID: 160-7745-1 MSD
Matrix: Water
Analysis Batch: 139012

Client Sample ID: B2XLF2
Prep Type: Total/NA
Prep Batch: 138654

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Zinc - RE	40.2	C	1000	951.0		ug/L		91	75 - 125	2	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 160-137143/3
Matrix: Water
Analysis Batch: 137143

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	0.0030	U	0.020	0.0030	mg/L			08/08/14 17:22	1
Phosphate	0.078	U	0.50	0.078	mg/L			08/08/14 17:22	1

Lab Sample ID: LCS 160-137143/4
Matrix: Water
Analysis Batch: 137143

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as N	0.160	0.152		mg/L		95	90 - 110
Phosphate	8.00	8.07		mg/L		101	90 - 110

TestAmerica St. Louis

Client: CH2M Hill Plateau Remediation Company
Project/Site: F13-018

TestAmerica Job ID: 160-7745-1
SDG: SL1538

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 160-7819-A-10 MS
Matrix: Water
Analysis Batch: 137143

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

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.
	Result	Qualifier	Added	Result	Qualifier				
Nitrite as N	0.0030	U N	0.100	0.0878	N	mg/L		88	90 - 110
Phosphate	0.078	U N	4.00	3.35	N	mg/L		84	90 - 110

Lab Sample ID: 160-7829-A-7 MS
Matrix: Water
Analysis Batch: 137143

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

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.
	Result	Qualifier	Added	Result	Qualifier				
Nitrite as N	0.0030	U N	0.100	0.0858	N	mg/L		86	90 - 110
Phosphate	0.078	U	4.00	3.94		mg/L		99	90 - 110

Lab Sample ID: 160-7819-A-10 DU
Matrix: Water
Analysis Batch: 137143

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample	Sample	DU		Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Nitrite as N	0.0030	U N	0.0030	U	mg/L		NC	20
Phosphate	0.078	U N	0.078	U	mg/L		NC	20

Lab Sample ID: MB 160-137819/9
Matrix: Water
Analysis Batch: 137819

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Nitrate as N	0.0040	U	0.020	0.0040	mg/L			08/05/14 18:27	1
Chloride	0.0456	B	0.20	0.020	mg/L			08/05/14 18:27	1
Sulfate	0.050	U	0.50	0.050	mg/L			08/05/14 18:27	1
Phosphate	0.078	U	0.50	0.078	mg/L			08/05/14 18:27	1

Lab Sample ID: LCS 160-137819/10
Matrix: Water
Analysis Batch: 137819

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.
Nitrate as N	0.400	0.394		mg/L		98	90 - 110
Chloride	2.00	1.97		mg/L		98	90 - 110
Sulfate	8.00	7.87		mg/L		98	90 - 110
Phosphate	8.00	8.00		mg/L		100	90 - 110

Lab Sample ID: 160-7745-5 MS
Matrix: Water
Analysis Batch: 137819

Client Sample ID: B2XLD8
Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.
	Result	Qualifier	Added	Result	Qualifier				
Phosphate	0.078	U N	4.00	4.55	N	mg/L		114	90 - 110

Client: CH2M Hill Plateau Remediation Company
Project/Site: F13-018

TestAmerica Job ID: 160-7745-1
SDG: SL1538

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 160-7745-5 DU
Matrix: Water
Analysis Batch: 137819

Client Sample ID: B2XLD8
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Phosphate	0.078	U N	0.078	U	mg/L		NC	20

Lab Sample ID: MB 160-138782/42
Matrix: Water
Analysis Batch: 138782

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.0040	U	0.020	0.0040	mg/L			08/18/14 21:36	1
Sulfate	0.050	U	0.50	0.050	mg/L			08/18/14 21:36	1

Lab Sample ID: LCS 160-138782/43
Matrix: Water
Analysis Batch: 138782

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	0.400	0.402		mg/L		101	90 - 110
Sulfate	8.00	7.72		mg/L		96	90 - 110

Method: 300.0 - Anions, Ion Chromatography - DL

Lab Sample ID: 160-7745-5 MS
Matrix: Water
Analysis Batch: 137819

Client Sample ID: B2XLD8
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate - DL	50.1	D	20.0	71.23	D	mg/L		106	90 - 110

Lab Sample ID: 160-7745-5 DU
Matrix: Water
Analysis Batch: 137819

Client Sample ID: B2XLD8
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Sulfate - DL	50.1	D	50.80	D	mg/L		1	20

Lab Sample ID: 160-7745-5 MS
Matrix: Water
Analysis Batch: 138782

Client Sample ID: B2XLD8
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N - DL	22.9	D	20.0	43.23	D	mg/L		102	90 - 110

Lab Sample ID: 160-7745-5 DU
Matrix: Water
Analysis Batch: 138782

Client Sample ID: B2XLD8
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrate as N - DL	22.9	D	23.34	D	mg/L		2	20

Client: CH2M Hill Plateau Remediation Company
Project/Site: F13-018

TestAmerica Job ID: 160-7745-1
SDG: SL1538

Method: 300.0 - Anions, Ion Chromatography - DL2

Lab Sample ID: 160-7745-5 MS
Matrix: Water
Analysis Batch: 137819

Client Sample ID: B2XLD8
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride - DL2	27.4	D	20.0	47.44	D	mg/L		100	90 - 110

Lab Sample ID: 160-7745-5 DU
Matrix: Water
Analysis Batch: 137819

Client Sample ID: B2XLD8
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chloride - DL2	27.4	D	27.25	D	mg/L		0.4	20

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 160-138245/12
Matrix: Water
Analysis Batch: 138245

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	8.3	U	50.0	8.3	ug/L			08/16/14 10:56	1

Lab Sample ID: LCS 160-138245/13
Matrix: Water
Analysis Batch: 138245

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	500	509.9		ug/L		102	90 - 110

Lab Sample ID: MRL 160-138245/11
Matrix: Water
Analysis Batch: 138245

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	50.0	55.05		ug/L		110	80 - 120

Lab Sample ID: 160-7730-C-7 MS
Matrix: Water
Analysis Batch: 138245

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	37.1	B N	500	953.3	N	ug/L		183	90 - 110

Lab Sample ID: 160-7730-C-7 DU
Matrix: Water
Analysis Batch: 138245

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Ammonia	37.1	B N	51.06		ug/L		32	20

Client: CH2M Hill Plateau Remediation Company
Project/Site: F13-018

TestAmerica Job ID: 160-7745-1
SDG: SL1538

Method: 376.1 - Sulfide

Lab Sample ID: MB 160-136595/1
Matrix: Water
Analysis Batch: 136595

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	0.45	U	1.0	0.45	mg/L			08/07/14 10:00	1

Lab Sample ID: LCS 160-136595/2
Matrix: Water
Analysis Batch: 136595

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide	10.0	9.87		mg/L		99	90 - 110

Method: 376.1 - Sulfide - DL

Lab Sample ID: 160-7745-1 MS
Matrix: Water
Analysis Batch: 136595

Client Sample ID: B2XLF2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide - DL	18.1	U	400	362.7	D	mg/L		91	90 - 110

Lab Sample ID: 160-7745-1 DU
Matrix: Water
Analysis Batch: 136595

Client Sample ID: B2XLF2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Sulfide - DL	18.1	U		7.2	U	mg/L		NC	20

Method: 410.4 - COD

Lab Sample ID: MB 160-138072/3-A
Matrix: Water
Analysis Batch: 138098

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 138072

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	6.5	U	20.0	6.5	mg/L		08/14/14 13:21	08/14/14 16:03	1

Lab Sample ID: LCS 160-138072/4-A
Matrix: Water
Analysis Batch: 138098

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 138072

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	50.0	47.00		mg/L		94	90 - 110

Lab Sample ID: 160-7730-B-7-C MS
Matrix: Water
Analysis Batch: 138098

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 138072

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	6.5	U N	50.0	56.00	N	mg/L		112	90 - 110

Client: CH2M Hill Plateau Remediation Company
Project/Site: F13-018

TestAmerica Job ID: 160-7745-1
SDG: SL1538

Method: 410.4 - COD (Continued)

Lab Sample ID: 160-7730-B-7-B DU
Matrix: Water
Analysis Batch: 138098

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 138072

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Chemical Oxygen Demand	6.5	U N	6.5	U	mg/L		NC	20

Method: 9060 - Organic Carbon, Total (TOC)

Lab Sample ID: MB 160-137781/4
Matrix: Water
Analysis Batch: 137781

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	0.313	B	1.0	0.27	mg/L			08/12/14 16:55	1

Lab Sample ID: LCS 160-137781/5
Matrix: Water
Analysis Batch: 137781

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	10.0	9.64		mg/L		96	90 - 110

Lab Sample ID: 160-7730-D-7 MS
Matrix: Water
Analysis Batch: 137781

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	0.86	B	5.00	5.96		mg/L		102	76 - 120

Lab Sample ID: 160-7730-D-7 DU
Matrix: Water
Analysis Batch: 137781

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Total Organic Carbon	0.86	B	0.871	B	mg/L		2	20

Client: CH2M Hill Plateau Remediation Company
Project/Site: F13-018

TestAmerica Job ID: 160-7745-1
SDG: SL1538

Metals

Prep Batch: 136626

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-7745-1	B2XLF2	Total/NA	Water	3010A	
160-7745-1 MS	B2XLF2	Total/NA	Water	3010A	
160-7745-1 MSD	B2XLF2	Total/NA	Water	3010A	
160-7745-2	B2XLF4	Total/NA	Water	3010A	
160-7745-3	B2XLD7	Total/NA	Water	3010A	
160-7745-4	B2XLD9	Total/NA	Water	3010A	
LCS 160-136626/2-A	Lab Control Sample	Total/NA	Water	3010A	
MB 160-136626/1-A	Method Blank	Total/NA	Water	3010A	

Prep Batch: 136628

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-7745-1	B2XLF2	Total/NA	Water	3010A	
160-7745-1 MS	B2XLF2	Total/NA	Water	3010A	
160-7745-1 MSD	B2XLF2	Total/NA	Water	3010A	
160-7745-2	B2XLF4	Total/NA	Water	3010A	
160-7745-3	B2XLD7	Total/NA	Water	3010A	
160-7745-4	B2XLD9	Total/NA	Water	3010A	
LCS 160-136628/2-A	Lab Control Sample	Total/NA	Water	3010A	
MB 160-136628/1-A	Method Blank	Total/NA	Water	3010A	

Analysis Batch: 138138

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-7745-1	B2XLF2	Total/NA	Water	6010C	136628
160-7745-1 MS	B2XLF2	Total/NA	Water	6010C	136628
160-7745-1 MSD	B2XLF2	Total/NA	Water	6010C	136628
160-7745-2	B2XLF4	Total/NA	Water	6010C	136628
160-7745-3	B2XLD7	Total/NA	Water	6010C	136628
160-7745-4	B2XLD9	Total/NA	Water	6010C	136628
LCS 160-136628/2-A	Lab Control Sample	Total/NA	Water	6010C	136628
MB 160-136628/1-A	Method Blank	Total/NA	Water	6010C	136628

Analysis Batch: 138387

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-7745-1	B2XLF2	Total/NA	Water	6020A	136626
160-7745-1 MS	B2XLF2	Total/NA	Water	6020A	136626
160-7745-1 MSD	B2XLF2	Total/NA	Water	6020A	136626
160-7745-2	B2XLF4	Total/NA	Water	6020A	136626
160-7745-3	B2XLD7	Total/NA	Water	6020A	136626
160-7745-4	B2XLD9	Total/NA	Water	6020A	136626
LCS 160-136626/2-A	Lab Control Sample	Total/NA	Water	6020A	136626
MB 160-136626/1-A	Method Blank	Total/NA	Water	6020A	136626

Prep Batch: 138654

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-7745-1 - RE	B2XLF2	Total/NA	Water	3010A	
160-7745-1 MS - RE	B2XLF2	Total/NA	Water	3010A	
160-7745-1 MSD - RE	B2XLF2	Total/NA	Water	3010A	
160-7745-2 - RE	B2XLF4	Total/NA	Water	3010A	
160-7745-3 - RE	B2XLD7	Total/NA	Water	3010A	
160-7745-4 - RE	B2XLD9	Total/NA	Water	3010A	
LCS 160-138654/2-A	Lab Control Sample	Total/NA	Water	3010A	

TestAmerica St. Louis

Client: CH2M Hill Plateau Remediation Company
Project/Site: F13-018

TestAmerica Job ID: 160-7745-1
SDG: SL1538

Metals (Continued)

Prep Batch: 138654 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 160-138654/1-A	Method Blank	Total/NA	Water	3010A	

Analysis Batch: 138741

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-7745-1	B2XLF2	Total/NA	Water	6020A	136626
160-7745-1 MS	B2XLF2	Total/NA	Water	6020A	136626
160-7745-1 MSD	B2XLF2	Total/NA	Water	6020A	136626
160-7745-2	B2XLF4	Total/NA	Water	6020A	136626
160-7745-3	B2XLD7	Total/NA	Water	6020A	136626
160-7745-4	B2XLD9	Total/NA	Water	6020A	136626
LCS 160-136626/2-A	Lab Control Sample	Total/NA	Water	6020A	136626
MB 160-136626/1-A	Method Blank	Total/NA	Water	6020A	136626

Analysis Batch: 139012

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-7745-1 - RE	B2XLF2	Total/NA	Water	6020A	138654
160-7745-1 MS - RE	B2XLF2	Total/NA	Water	6020A	138654
160-7745-1 MSD - RE	B2XLF2	Total/NA	Water	6020A	138654
160-7745-2 - RE	B2XLF4	Total/NA	Water	6020A	138654
160-7745-3 - RE	B2XLD7	Total/NA	Water	6020A	138654
160-7745-4 - RE	B2XLD9	Total/NA	Water	6020A	138654
LCS 160-138654/2-A	Lab Control Sample	Total/NA	Water	6020A	138654
MB 160-138654/1-A	Method Blank	Total/NA	Water	6020A	138654

General Chemistry

Analysis Batch: 136595

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-7745-1 - DL	B2XLF2	Total/NA	Water	376.1	
160-7745-1 DU - DL	B2XLF2	Total/NA	Water	376.1	
160-7745-1 MS - DL	B2XLF2	Total/NA	Water	376.1	
LCS 160-136595/2	Lab Control Sample	Total/NA	Water	376.1	
MB 160-136595/1	Method Blank	Total/NA	Water	376.1	

Analysis Batch: 137143

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-7745-5	B2XLD8	Total/NA	Water	300.0	
160-7745-6 - DL	B2XLF3	Total/NA	Water	300.0	
160-7745-7	B2XLH7	Total/NA	Water	300.0	
160-7819-A-10 DU	Duplicate	Total/NA	Water	300.0	
160-7819-A-10 MS	Matrix Spike	Total/NA	Water	300.0	
160-7829-A-7 MS	Matrix Spike	Total/NA	Water	300.0	
LCS 160-137143/4	Lab Control Sample	Total/NA	Water	300.0	
MB 160-137143/3	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 137781

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-7730-D-7 DU	Duplicate	Total/NA	Water	9060	
160-7730-D-7 MS	Matrix Spike	Total/NA	Water	9060	
160-7745-2	B2XLF4	Total/NA	Water	9060	

Client: CH2M Hill Plateau Remediation Company
Project/Site: F13-018

TestAmerica Job ID: 160-7745-1
SDG: SL1538

General Chemistry (Continued)

Analysis Batch: 137781 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-7745-4	B2XLD9	Total/NA	Water	9060	
LCS 160-137781/5	Lab Control Sample	Total/NA	Water	9060	
MB 160-137781/4	Method Blank	Total/NA	Water	9060	

Analysis Batch: 137819

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-7745-5	B2XLD8	Total/NA	Water	300.0	
160-7745-5 - DL	B2XLD8	Total/NA	Water	300.0	
160-7745-5 - DL2	B2XLD8	Total/NA	Water	300.0	
160-7745-5 DU	B2XLD8	Total/NA	Water	300.0	
160-7745-5 DU - DL	B2XLD8	Total/NA	Water	300.0	
160-7745-5 DU - DL2	B2XLD8	Total/NA	Water	300.0	
160-7745-5 MS	B2XLD8	Total/NA	Water	300.0	
160-7745-5 MS - DL	B2XLD8	Total/NA	Water	300.0	
160-7745-5 MS - DL2	B2XLD8	Total/NA	Water	300.0	
160-7745-6	B2XLF3	Total/NA	Water	300.0	
160-7745-6 - DL	B2XLF3	Total/NA	Water	300.0	
160-7745-6 - DL2	B2XLF3	Total/NA	Water	300.0	
160-7745-7	B2XLH7	Total/NA	Water	300.0	
160-7745-7 - DL	B2XLH7	Total/NA	Water	300.0	
160-7745-7 - DL2	B2XLH7	Total/NA	Water	300.0	
LCS 160-137819/10	Lab Control Sample	Total/NA	Water	300.0	
MB 160-137819/9	Method Blank	Total/NA	Water	300.0	

Prep Batch: 138072

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-7730-B-7-B DU	Duplicate	Total/NA	Water	410.4	
160-7730-B-7-C MS	Matrix Spike	Total/NA	Water	410.4	
160-7745-2	B2XLF4	Total/NA	Water	410.4	
160-7745-4	B2XLD9	Total/NA	Water	410.4	
LCS 160-138072/4-A	Lab Control Sample	Total/NA	Water	410.4	
MB 160-138072/3-A	Method Blank	Total/NA	Water	410.4	

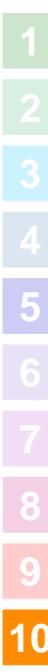
Analysis Batch: 138098

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-7730-B-7-B DU	Duplicate	Total/NA	Water	410.4	138072
160-7730-B-7-C MS	Matrix Spike	Total/NA	Water	410.4	138072
160-7745-2	B2XLF4	Total/NA	Water	410.4	138072
160-7745-4	B2XLD9	Total/NA	Water	410.4	138072
LCS 160-138072/4-A	Lab Control Sample	Total/NA	Water	410.4	138072
MB 160-138072/3-A	Method Blank	Total/NA	Water	410.4	138072

Analysis Batch: 138245

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-7730-C-7 DU	Duplicate	Total/NA	Water	350.1	
160-7730-C-7 MS	Matrix Spike	Total/NA	Water	350.1	
160-7745-2	B2XLF4	Total/NA	Water	350.1	
160-7745-4	B2XLD9	Total/NA	Water	350.1	
LCS 160-138245/13	Lab Control Sample	Total/NA	Water	350.1	
MB 160-138245/12	Method Blank	Total/NA	Water	350.1	
MRL 160-138245/11	Lab Control Sample	Total/NA	Water	350.1	

TestAmerica St. Louis



Client: CH2M Hill Plateau Remediation Company
Project/Site: F13-018

TestAmerica Job ID: 160-7745-1
SDG: SL1538

General Chemistry (Continued)

Analysis Batch: 138782

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-7745-5 - DL	B2XLD8	Total/NA	Water	300.0	
160-7745-5 DU - DL	B2XLD8	Total/NA	Water	300.0	
160-7745-5 MS - DL	B2XLD8	Total/NA	Water	300.0	
160-7745-7 - DL	B2XLH7	Total/NA	Water	300.0	
LCS 160-138782/43	Lab Control Sample	Total/NA	Water	300.0	
MB 160-138782/42	Method Blank	Total/NA	Water	300.0	

