

October 22, 2015

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: 160-14331-1

TestAmerica Sample Delivery Group: SL1952
Client Project/Site: X15-050_X15-049

For:

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

Attn: Mr. Scot Fitzgerald



Authorized for release by:
10/22/2015 2:53:50 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.

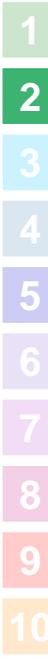


Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Chain of Custody	5
Definitions/Glossary	11
Method Summary	12
Sample Summary	13
Client Sample Results	14
QC Sample Results	15
QC Association Summary	16

Client: CH2M Hill Plateau Remediation Company
Project/Site: X15-050_X15-049

TestAmerica Job ID: 160-14331-1
SDG: SL1952

Job ID: 160-14331-1

Laboratory: TestAmerica St. Louis

Narrative

CASE NARRATIVE

CH2M Hill Plateau Remediation Company
P.O. Box 1600
Richland, Washington 99352
October 22, 2015
Attention: Scot Fitzgerald

SDG : SL1952
Number of Samples : 2 samples
Sample Matrix : Water
Data Deliverable : Summary
Date SDG Closed : October 19, 2015

II. Introduction

On August 17 and 19, 2 samples were received by TestAmerica - St. Louis for chemical analysis. The samples were received within temperature criteria. See the COC and receipt checklists for documentation of any variations on receipt conditions and temperature. Upon receipt, samples were given laboratory Ids to correspond with specific client Ids. Please refer to the Sample Summary sheets attached to this case narrative. This report is incomplete without the narrative.

The following SAFs are associated with this SDG: X15-050, X15-049

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.

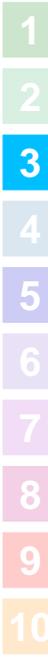
For WTPH methods, the lab utilizes method 8015B. Per CHPRC direction, the method name in the electronic data has been modified to read WTPH in the place of 8015B.

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

Per CHPRC direction, due to the short hold times for Nitrate, Nitrite and Phosphate by IC (48 hours) as well as pH analysis (24 hours), a SIR request is not needed when samples are run outside 1x hold but within 2x hold. A narrative comment will be included below if a sample is run outside the lab-specified hold time for waters.

IV. Definitions

QCBLK- Quality Control Blank, Method Blank



Job ID: 160-14331-1 (Continued)

Laboratory: TestAmerica St. Louis (Continued)

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.

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.

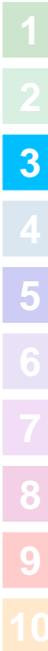
There were no observations or non-conformances associated with the following methods:

ICPMS Uranium

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: 160-14331-1

SDG Number: SL1952

Login Number: 14331

List Number: 1

Creator: Clarke, Jill C

List Source: TestAmerica St. Louis

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.	True	
Cooler Temperature is recorded.	True	1.3°
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 <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C.#
X15-050-009
Page 1 of 1

Collector	J.R. Aguilar/CHPRC	Contact/Requester	WATERS-HUSTED, K	Telephone No.	376-4650
SAF No.	X15-050	Sampling Origin	Hanford Site	Purchase Order/Charge Code	302869
Project Title	200-BP-5 Treatability Test - Day 3	Logbook No.	HNF-N-506 76/84	Ice Chest No.	GWS - 504
Shipped To (Lab)	TestAmerica St. Louis	Method of Shipment	Commercial Carrier	Bill of Lading/Air Bill No.	773760371246
Protocol	CERCLA	Priority:	3 Days	Offsite Property No.	

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.

Sample No.	B32J55	Filter	N	Date	10-16-15	Time	0748	No/Type Container	1x500-mL G/P	6020_METALS_ICPMS: Uranium (1)	Sample Analysis	6 Months	Holding Time	6 Months	Preservative	HNO3 to pH <2
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SPECIAL INSTRUCTIONS
N/A

Total Activity Exemption: Yes No

October 22, 2015

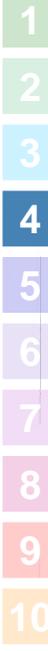
Relinquished By	J.R. Aguilar/CHPRC	Print	<i>[Signature]</i>	Sign		Date/Time	11:10	Received By	E.L. Kauer	Print	<i>[Signature]</i>	Sign		Date/Time	11:30
Relinquished By	E.L. Kauer	Print	<i>[Signature]</i>	Sign		Date/Time	10:00	Received By	CHPRC	Print	<i>[Signature]</i>	Sign		Date/Time	OCT 16 2015
Relinquished By	CHPRC	Print	<i>[Signature]</i>	Sign		Date/Time	OCT 16 2015	Received By	FEDEX	Print	<i>[Signature]</i>	Sign		Date/Time	OCT 16 2015
Relinquished By	FedEx	Print	<i>[Signature]</i>	Sign		Date/Time	10:16	Received By	CHPRC	Print	<i>[Signature]</i>	Sign		Date/Time	OCT 16 2015
Relinquished By	CHPRC	Print	<i>[Signature]</i>	Sign		Date/Time	10:16	Received By	CHPRC	Print	<i>[Signature]</i>	Sign		Date/Time	OCT 16 2015

S	= Soil	DS	= Drum Solids
SE	= Sediment	DL	= Drum Liquids
SO	= Solid	T	= Tissue
SL	= Sludge	W1	= Wipe
W	= Water	L	= Liquid
O	= Oil	V	= Vegetation
A	= Air	X	= Other

Disposal Method (e.g., Return to customer, per lab procedure, used in process)

Disposed By

Date/Time





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FedEx Tracking

774760371246

Ship date

Fri 10/16/2015

RICHLAND, WA US

Actual delivery

Sat 10/17/2015 8:25 am

EARTH CITY, MO US

Delivered

Signed for by: DANIELS

Travel History

Date/Time	Activity	Location
10/17/2015 - Saturday		
8:25 am	Delivered	EARTH CITY, MO
8:09 am	On FedEx vehicle for delivery	EARTH CITY, MO
7:21 am	At local FedEx facility	EARTH CITY, MO
5:26 am	At destination sort facility	BERKELEY, MO
4:36 am	Departed FedEx location	MEMPHIS, TN
12:24 am	Arrived at FedEx location	MEMPHIS, TN
10/16/2015 - Friday		
5:11 pm	Left FedEx origin facility	PASCO, WA
3:18 pm	Picked up	PASCO, WA
2:50 pm	Shipment information sent to FedEx	

Shipment Facts

Tracking number	774760371246	Service	FedEx Priority Overnight
Weight	68 lbs / 30.84 kgs	Dimensions	28x16x16 in
Delivered To	Shipping/Receiving	Total pieces	1
Total shipment weight	68 lbs / 30.84 kgs	Shipper reference	GWS-504
Packaging	Your Packaging	Special handling section	For Saturday Delivery



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Login Sample Receipt Checklist

Client: CH2M Hill Plateau Remediation Company

Job Number: 160-14349-1

SDG Number: SL1952

Login Number: 14349

List Source: TestAmerica St. Louis

List Number: 1

Creator: Daniels, Brian J

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	1.0°
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	

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C.#
X15-049-009
Page 1 of 1

Collector	J.R. Aguilar/CHPRC	Contact/Requester	WATERS-HUSTED, K	Telephone No.	376-4650
SAF No.	X15-049	Sampling Origin	Hanford Site	Purchase Order/Charge Code	302869
Project Title	200-BP-5 Treatability Test - Day 2	Logbook No.	HNF-N-506 76 / 83	Ice Chest No.	6025-453
Shipped To (Lab)	TestAmerica St. Louis	Method of Shipment	Commercial Carrier	Bill of Lading/Air Bill No.	774750495083
Protocol	CERCLA	Priority:	3 Days	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
N/A

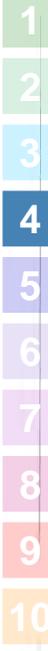
Total Activity Exemption: Yes No

Sample No.	Filter	* Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B32J46	N	W 10-15-15	0806	1x500-mL G/P	6020_METALS_ICPMS: Uranium (1)	6 Months	HNO3 to pH <2

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time	Matrix *
J.R. Aguilar/CHPRC			OCT 15 2015 0825	F.M. Hatt/CHPRC			OCT 15 2015 0825	S = Soil SE = Sediment SO = Solid SL = Sludge W = Water O = Oil A = Air DS = Drum Solids DL = Drum Liquids T = Tissue WI = Wipe L = Liquid V = Vegetation X = Other
F.M. Hatt/CHPRC			OCT 15 2015 1400	FEDEX				
Relinquished By			OCT 15 2015	Received By			10/14/15 09:05	
Relinquished By				Received By				

Disposal Method (e.g., Return to customer, per lab procedure, used in process)

Date/Time





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774750495083

Ship date:	Actual delivery:
Thu 10/15/2015	Mon 10/19/2015 9:09 am
RICHLAND, WA US	Delivered <i>Signed for by: R.CASTELLO</i>
	EARTH CITY, MO US

Travel History

Date/Time	Activity	Location
- 10/19/2015 - Monday		
9:09 am	Delivered	EARTH CITY, MO
5:51 am	On FedEx vehicle for delivery	EARTH CITY, MO
5:45 am	At local FedEx facility	EARTH CITY, MO
- 10/16/2015 - Friday		
9:44 pm	At destination sort facility	BERKELEY, MO
4:47 pm	Departed FedEx location	MEMPHIS, TN
4:34 am	In transit	MEMPHIS, TN
4:34 am	In transit	MEMPHIS, TN
3:05 am	In transit	MEMPHIS, TN
1:51 am	Arrived at FedEx location	MEMPHIS, TN
- 10/15/2015 - Thursday		
5:00 pm	Left FedEx origin facility	PASCO, WA
3:18 pm	Picked up	PASCO, WA
2:39 pm	Shipment information sent to FedEx	

Shipment Facts

Tracking number	774750495083	Service	FedEx Priority Overnight
Weight	68 lbs / 30.84 kgs	Dimensions	28x16x16 in.
Delivered To	Shipping/Receiving	Total pieces	1
Total shipment weight	68 lbs / 30.84 kgs	Shipper reference	gws-453
Packaging	Your Packaging	Special handling section	Deliver Weekday. Additional Handling Surcharge



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Qualifiers

Metals

Qualifier	Qualifier Description
U	Analyzed for but not detected.

Glossary

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

Client: CH2M Hill Plateau Remediation Company
Project/Site: X15-050_X15-049

TestAmerica Job ID: 160-14331-1
SDG: SL1952

Method	Method Description	Protocol	Laboratory
6020A	Metals (ICP/MS)	SW846	TAL SL

Protocol References:

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: X15-050_X15-049

TestAmerica Job ID: 160-14331-1
SDG: SL1952

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
160-14331-1	B32J55	Water	10/16/15 07:48	10/17/15 08:30
160-14349-1	B32J46	Water	10/15/15 08:06	10/19/15 09:15

- 1
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- 8
- 9
- 10

October 22, 2015
Client Sample Results

Client: CH2M Hill Plateau Remediation Company
Project/Site: X15-050_X15-049

TestAmerica Job ID: 160-14331-1
SDG: SL1952

Method: 6020A - Metals (ICP/MS)

Client Sample ID: B32J55
Date Collected: 10/16/15 07:48
Date Received: 10/17/15 08:30

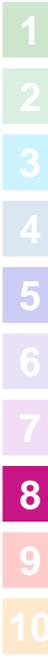
Lab Sample ID: 160-14331-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	115		1.0	0.23	ug/L		10/20/15 15:28	10/22/15 08:23	2

Client Sample ID: B32J46
Date Collected: 10/15/15 08:06
Date Received: 10/19/15 09:15

Lab Sample ID: 160-14349-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	119		1.0	0.23	ug/L		10/20/15 15:28	10/22/15 08:40	2



Client: CH2M Hill Plateau Remediation Company
Project/Site: X15-050_X15-049

TestAmerica Job ID: 160-14331-1
SDG: SL1952

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 160-217473/1-A
Matrix: Water
Analysis Batch: 217764

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 217473

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	0.23	U	1.0	0.23	ug/L		10/20/15 15:28	10/22/15 08:15	2

Lab Sample ID: LCS 160-217473/2-A
Matrix: Water
Analysis Batch: 217764

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 217473

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Uranium	1000	967.6		ug/L		97	80 - 120

Lab Sample ID: 160-14331-1 MS
Matrix: Water
Analysis Batch: 217764

Client Sample ID: B32J55
Prep Type: Total/NA
Prep Batch: 217473

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Uranium	115		1000	1091		ug/L		98	75 - 125

Lab Sample ID: 160-14331-1 MSD
Matrix: Water
Analysis Batch: 217764

Client Sample ID: B32J55
Prep Type: Total/NA
Prep Batch: 217473

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Uranium	115		1000	1098		ug/L		98	75 - 125	1	20

October 22, 2015
QC Association Summary

Client: CH2M Hill Plateau Remediation Company
 Project/Site: X15-050_X15-049

TestAmerica Job ID: 160-14331-1
 SDG: SL1952

Metals

Prep Batch: 217473

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-14331-1	B32J55	Total/NA	Water	3010A	
160-14331-1 MS	B32J55	Total/NA	Water	3010A	
160-14331-1 MSD	B32J55	Total/NA	Water	3010A	
160-14349-1	B32J46	Total/NA	Water	3010A	
LCS 160-217473/2-A	Lab Control Sample	Total/NA	Water	3010A	
MB 160-217473/1-A	Method Blank	Total/NA	Water	3010A	

Analysis Batch: 217764

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-14331-1	B32J55	Total/NA	Water	6020A	217473
160-14331-1 MS	B32J55	Total/NA	Water	6020A	217473
160-14331-1 MSD	B32J55	Total/NA	Water	6020A	217473
160-14349-1	B32J46	Total/NA	Water	6020A	217473
LCS 160-217473/2-A	Lab Control Sample	Total/NA	Water	6020A	217473
MB 160-217473/1-A	Method Blank	Total/NA	Water	6020A	217473

