

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Richland
2800 George Washington Way
Richland, WA 99352
Tel: (509)375-3131

TestAmerica Job ID: 300-1685-1
TestAmerica Sample Delivery Group: WC0637
Client Project/Site: X15-067

For:
CH2M Hill Plateau Remediation Company
PO BOX 1600
Mail Stop R3-50
Richland, Washington 99352

Attn: CPP Sample Management



Authorized for release by:
12/8/2015 10:16:15 AM
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Designee for
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I certify that this Certificate of Analysis is in compliance with the SOW, both technically and for completeness, for other than the conditions detailed in this package. Release of the data contained in this hard copy data package has been authorized by the Laboratory Manager, or a designee as verified by the attached signature.

The laboratory is accredited to EPA 7196A in Solid and Chemical Materials, per Washington State Department of Ecology this is approved for non-discharge water samples. The sample/ sample duplicate RPD agreement is not applicable if one or both results are elss than five times the MDL.



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- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13



Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Chain of Custody	5
Detection Summary	14
Client Sample Results	16
QC Sample Results	19
QC Association Summary	21
Lab Chronicle	22
Method Summary	25
Sample Summary	26
Receipt Checklists	27

Qualifiers**HPLC/IC**

Qualifier	Qualifier Description
D	The reported value is from a dilution.
U	Analyzed for but not detected.
N	MS, MSD: Spike recovery is outside acceptance limits.
B	Estimated result. Result is less than the RL, but greater than MDL

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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: X15-067

TestAmerica Job ID: 300-1685-1
SDG: WC0637

Job ID: 300-1685-1

Laboratory: TestAmerica Richland

Narrative

**Job Narrative
300-1685-1**

Comments

No additional comments.

Receipt

The samples were received on 11/23/2015 2:30 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.5° C.

HPLC/IC

Method 300.0: Manual integration was performed on the following sample for Sulfate: B331R3 (300-1685-3) and on the following sample for Nitrate as N: B331W1 (300-1685-8). The matrix spike (MS) recoveries for analytical batch 300-2159 were outside control limits for Orthophosphate as P. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.



CH2MHill Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #

X15-067-047

Page 1 of 1

Collector	J.R. Aguilar/CHPRC	Contact/Requester	WHITLEY, KM	Telephone No.	373-4929		
SAF No.	X15-067	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300205		
Project Title	300 Area Uranium Sequestration Post Inj	Logbook No.	HNF-N-506 80 / 40	Ice Chest No.	N/A		
Shipped To (Lab)	TestAmerica Incorporated, Richland	Method of Shipment	GOVERNMENT VEHICLE	Bill of Lading/Air Bill No.	N/A		
Protocol	CERCLA	Priority:	30 Days	Offsite Property No.	N/A		
POSSIBLE SAMPLE HAZARDS/REMARKS			SPECIAL INSTRUCTIONS	Hold Time	Total Activity Exemption: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
*Contains Radioactive Material at concentrations that are not be regulated for transportation per 49 CER/LATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1.							
Sample No.	Filter	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B331P9	N	11-23-15	1113	1x500-mL P	300.0 ANIONS_IC: COMMON; 300.0 ANIONS_IC: GW 01	48 Hours	Cool <=6C

300-1685 COC



#1685
W0637

December 08 2015

Relinquished By	J.R. Aguilar/CHPRC	Print	Sign	Date/Time	NOV 23 2015 1235	Received By	M.A. White	Print	Sign	Date/Time	NOV 23 2015 1235	Matrix * S = Soil DS = Drum Solids SE = Sediment DL = Drum Liquids SO = Solid T = Tissue SL = Sludge WT = Wipe W = Water L = Liquid O = Oil V = Vegetation A = Air X = Other
Relinquished By	M.A. White	CHPRC	CHPRC	Date/Time	NOV 23 2015 1430	Received By	J. Friesz, TARL	CHPRC	CHPRC	Date/Time	NOV 23 2015 1430	

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

CH2MHill Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #
X15-067-029

Page 1 of 1

Collector	J.R. Aguilar/CHPRC	Contact/Requester	WHITLEY, KM	Telephone No.	373-4929
SAF No.	X15-067	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300205
Project Title	300 Area Uranium Sequestration Post Inj	Logbook No.	HNF-N-506 80 / 40	Ice Chest No.	N/A
Shipped To (Lab)	TestAmerica Incorporated, Richland	Method of Shipment	GOVERNMENT VEHICLE	Bill of Lading/Air Bill No.	N/A
Protocol	CERCLA	Priority:	30 Days	Offsite Property No.	N/A
POSSIBLE SAMPLE HAZARDS/REMARKS			SPECIAL INSTRUCTIONS	Hold Time	Total Activity Exemption: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
*Contains Radioactive Material at concentrations that are not be regulated for transportation per 49 CFR/LATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1.					

Sample No.	Filter	*	Date	Time	No./Type Container	Sample Analysis	Holding Time	Preservative
B331T5	N	W	11-23-15	1624	1x500-mL P	300.0_ANIONS_IC: COMMON; 300.0_ANIONS_IC: GW 01	48 Hours	Cool <=6C

#1685
W06637

December 08 2015

Relinquished By	J.R. Aguilar/CHPRC	Print	Sign	Date/Time	Received By	M.A. White	Print	Sign	Date/Time	Matrix *
Relinquished By	M.A. White			NOV 23 2015 1235	Received By	CHPRC			NOV 23 2015 1235	S = Soil
Relinquished By	CHPRC			NOV 23 2015 1430	Received By	J. Friesz, TARL			NOV 23 2015 1430	SE = Sediment
Relinquished By					Received By					SO = Solid
Relinquished By					Received By					SL = Sludge
Relinquished By					Received By					W = Water
Relinquished By					Received By					O = Oil
Relinquished By					Received By					A = Air

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time
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CH2M HILL Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #
X15-067-033
Page 1 of 1

Collector J.R. Aguilera/CHPRC	Contact/Requester WHITLEY, KM	Telephone No. 373-4929
SAF No. X15-067	Sampling Origin Hanford Site	Purchase Order/Charge Code 300205
Project Title 300 Area Uranium Sequestration Post Inj	Logbook No. HNF-N-506 80 / 40	Ice Chest No. N/A
Shipped To (Lab) TestAmerica Incorporated, Richland	Method of Shipment GOVERNMENT VEHICLE	Bill of Lading/Air Bill No. N/A
Protocol CERCLA	Priority: 30 Days PRIORITY	Offsite Property No. N/A
POSSIBLE SAMPLE HAZARDS/REMARKS		SPECIAL INSTRUCTIONS
*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.		Hold Time
		Total Activity Exemption: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>

Sample No.	Filter	*	Date	Time	No./Type Container	Sample Analysis	Holding Time	Preservative
B331R3	N	W	11-23-15	1143	1x500-mL P	300.0_ANIONS_IC: COMMON; 300.0_ANIONS_IC: GW 01	48 Hours	Cool <=6C

#1685
wcd637

December 08 2015

Relinquished By J.R. Aguilera/CHPRC	Sign <i>[Signature]</i>	Date/Time NOV 23 2015 1235	Received By M.A. White/CHPRC	Sign <i>[Signature]</i>	Date/Time NOV 23 2015 1235	MATRIX * S = Soil SE = Sediment SO = Solid SL = Sludge W = Water O = Oil A = Air DS = Dism Solids DL = Dism Liquids T = Tissue WI = Wipe L = Liquid V = Vegetation X = Other
Relinquished By M.A. White/CHPRC	Sign <i>[Signature]</i>	Date/Time NOV 23 2015 1430	Received By J. Friesz, TARL	Sign <i>[Signature]</i>	Date/Time NOV 23 2015 1430	
Relinquished By	Sign	Date/Time	Received By	Sign	Date/Time	

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time
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CH2MHill Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #
X15-067-052
Page 1 of 1

Collector J.R. Aguilar/CHPRC	Contact/Requester WHITLEY, KM	Telephone No. 373-4929
SAF No. X15-067	Sampling Origin Hanford Site	Purchase Order/Charge Code 300205
Project Title 300 Area Uranium Segregation Post Inj	Logbook No. HNF-N-506 \$Q / 4D	Ice Chest No. N/A
Shipped To (Lab) TestAmerica Incorporated, Richland	Method of Shipment GOVERNMENT VEHICLE	Bill of Lading/Air Bill No. N/A
Protocol CERCLA	Priority: 30 Days PRIORITY	Offsite Property No. N/A
POSSIBLE SAMPLE HAZARDS/REMARKS		SPECIAL INSTRUCTIONS
*Contains Radioactive Material at concentrations that are not be regulated for transportation per 49 CFR/LATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1.		Hold Time
		Total Activity Exemption: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>

Sample No.	Filter	*	Date	Time	No./Type Container	Sample Analysis	Holding Time	Preservative
B33-T19	N	W	11-23-15	0902	1x500-mL P	300.0 ANIONS_IC: COMMON; 300.0 ANIONS_IC: GW 01	48 Hours	Cool <=6C

#1685
W0637

December 08 2015

Reinquished By J.R. Aguilar/CHPRC	Print <i>[Signature]</i>	Sign	Date/Time NOV 23 2015 12:35	Received By M.A. White/CHPRC	Print <i>[Signature]</i>	Sign	Date/Time NOV 23 2015 12:35
Reinquished By M.A. White/CHPRC	<i>[Signature]</i>		Date/Time NOV 23 2015 14:30	Received By J. Friesz, TARL	<i>[Signature]</i>		Date/Time NOV 23 2015 14:30

Matrix *	
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

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



CH2M Hill Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #
X15-067-035
Page 1 of 1

Collector	D.L. Foyd/CHPRC	Contact/Requester	WHITLEY, KM	Telephone No.	373-4929
SAF No.	X15-067	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300205
Project Title	300 Area Uranium Segregation Post Inj	Logbook No.	HNF-N-506 81/46	Ice Chest No.	N/A
Shipped To (Lab)	Test America Incorporated, Richland	Method of Shipment	GOVERNMENT VEHICLE	Bill of Lading/Air Bill No.	N/A
Protocol	CERCLA	Priority:	30 Days	Offsite Property No.	N/A
POSSIBLE SAMPLE HAZARDS/REMARKS			SPECIAL INSTRUCTIONS		
*Contains Radioactive Material at concentrations that are not be regulated for transportation per 49 CFR/LATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1.			Hold Time		
			Total Activity Exemption: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		

Sample No.	Filter	* Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B331V7	N	NOV 23 2015	0922	1x500-mL P	300.0_ANIONS_IC: COMMON; 300.0_ANIONS_IC: GW 01	48 Hours	Cool <=6C

#1685
W0637

December 08 2015

Reinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time	Matrix *
D.L. Foyd/CHPRC			NOV 23 2015 1213	F.M. Hall/CHPRC			NOV 23 2015 1213	S = Soil SE = Sediment SO = Solid SL = Sludge W = Water O = Oil A = Air
F.M. Hall/CHPRC			NOV 23 2015 1430	J. Fitesz, TABL			NOV 23 2015 1430	DS = Drum Solids DL = Drum Liquids T = Tissue WI = Wipe L = Liquid V = Vegetation X = Other
Reinquished By			Date/Time	Received By			Date/Time	
Reinquished By			Date/Time	Received By			Date/Time	

CH2MHill Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #
X15-067-028

Page 1 of 1

Collector	DL Floyd/CHPRC	Contact/Requester	WHITTELY, KM	Telephone No.	373-4929
SAF No.	X15-067	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300205
Project Title	300 Area Uranium Sequestration Post Inj	Logbook No.	HNF-N-506 81/46	Ice Chest No.	N/A
Shipped To (Lab)	TestAmerica Incorporated, Richland	Method of Shipment	GOVERNMENT VEHICLE	Bill of Lading/Air Bill No.	N/A
Protocol	CERCLA	Priority:	30 Days	Offsite Property No.	N/A
POSSIBLE SAMPLE HAZARDS/REMARKS			SPECIAL INSTRUCTIONS	Hold Time	Total Activity Exemption: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
*Contains Radioactive Material at concentrations that are not be regulated for transportation per 49 CFR/LATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1.					
Sample No.	Filter	Date	Time	No./Type Container	Sample Analysis
B331V3	N	NOV 23 2015	1000	1x500-mL P	300.0_ANIONS_IC: COMMON; 300.0_ANIONS_IC: GW 01
					Holding Time
					48 Hours
					Preservative
					Cool <=6C

#1685
W10637

December 08 2015

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time	Matrix *
DL Floyd/CHPRC			NOV 23 2015 1213	F.M. Hall/CHPRC			NOV 23 2015 1213	S = Soil SE = Sediment SO = Solid SL = Sludge W = Water O = Oil A = Air
Relinquished By			Date/Time	Received By			Date/Time	DS = Drum Solids DL = Drum Liquids T = Tissue WI = Wipe L = Liquid V = Vegetation X = Other
F.M. Hall/CHPRC			NOV 23 2015 1430	J. Friesz, TART			NOV 23 2015 1430	
Relinquished By			Date/Time	Received By			Date/Time	
Relinquished By			Date/Time	Received By			Date/Time	
FINAL SAMPLE DISPOSITION		Disposal Method (e.g., Return to customer, per lab procedure, used in process)			Disposed By		Date/Time	



CH2MHill Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #
X15-067-080
Page 1 of 1

Collector D.L. Foyd/CHPRC	Contact/Requester WHITLEY, KM	Telephone No. 373-4929
SAF No. X15-067	Sampling Origin Hanford Site	Purchase Order/Charge Code 300205
Project Title 300 Area Uranium Sequestration Post Inj	Logbook No. HNF-N-506 81/46	Ice Chest No. N/A
Shipped To (Lab) TestAmerica Incorporated, Richland	Method of Shipment GOVERNMENT VEHICLE	Bill of Lading/Air Bill No. N/A
Protocol CERCLA	Priority: 30 Days PRIORITY	Offsite Property No. N/A
POSSIBLE SAMPLE HAZARDS/REMARKS *Contains Radioactive Material at concentrations that are not be regulated for transportation per 49 CFR/LATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1.		
Sample No. B33205	Filter N	Date NOV 23 2015
	Time 0745	No/Type Container 1x500-mL P
		Sample Analysis 300.0 ANIONS_IC: COMMON; 300.0 ANIONS_IC: GW 01
		Holding Time 48 Hours
		Preservative Cool <=6C
		SPECIAL INSTRUCTIONS HOLD TIME
		Total Activity Exemption: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>

#1685
W0637

December 08 2015

Relinquished By D.L. Foyd/CHPRC	Print 	Sign 	Date/Time NOV 23 2015 1213	Received By F.M. Hall/CHPRC	Print 	Sign 	Date/Time NOV 23 2015 1213
Relinquished By F.M. Hall/CHPRC			Date/Time NOV 23 2015 1430	Received By J. Friesz, TABL			Date/Time NOV 23 2015 1430
Relinquished By			Date/Time	Received By			Date/Time

- Matrix *
- 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

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time
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CH2MHill Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #
X15-067-040
Page 1 of 1

Collector	DL Foyt/CHPRC	Contact/Requester	WHITLEY, KM	Telephone No.	373-4929
SAF No.	X15-067	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300205
Project Title	300 Area Uranium Sequestration Post Inj	Logbook No.	HNF-N-506 81/46	Ice Chest No.	N/A
Shipped To (Lab)	TestAmerica Incorporated, Richland	Method of Shipment	GOVERNMENT VEHICLE	Bill of Lading/Air Bill No.	N/A
Protocol	CERCLA	Priority:	30 Days	Offsite Property No.	N/A
POSSIBLE SAMPLE HAZARDS/REMARKS			SPECIAL INSTRUCTIONS		
*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.			Hold Time		
			Total Activity Exemption: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		

Sample No.	Filter	* Date	Time	No./Type Container	Sample Analysis	Holding Time	Preservative
B331W1	N	NOV 23 2015	1048	1x500-mL P	300.0_ANIONS_IC: COMMON; 300.0_ANIONS_IC: GW 01	48 Hours	Cool <=6C

#1685
WCO631

December 08 2015

Reinquished By	DL Foyt/CHPRC	Print	Sign	Date/Time	NOV 23 2015 1213	Received By	F.M. Hall/CHPRC	Print	Sign	Date/Time	NOV 23 2015 1213	Matrix *
Reinquished By	F.M. Hall/CHPRC			Date/Time	NOV 23 2015 1430	Received By	F.M. Hall/CHPRC			Date/Time	NOV 23 2015 1430	S = Soil
Reinquished By				Date/Time	NOV 23 2015	Received By				Date/Time	NOV 23 2015	SE = Sediment
Reinquished By				Date/Time		Received By				Date/Time		SO = Solid
Reinquished By				Date/Time		Received By				Date/Time		SL = Sludge
Reinquished By				Date/Time		Received By				Date/Time		W = Water
Reinquished By				Date/Time		Received By				Date/Time		O = Oil
Reinquished By				Date/Time		Received By				Date/Time		A = Air

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time
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CH2MHill Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #
X15-067-049
Page 1 of 1

Collector	BL Floyd/CHPRC	Contact/Requester	WHITTLEBY, KM	Telephone No.	373-4929
SAF No.	X15-067	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300205
Project Title	300 Area Uranium Sequestration Post Inj	Logbook No.	HNF-N-506 81/46	Ice Chest No.	N/A
Shipped To (Lab)	TestAmerica Incorporated, Richland	Method of Shipment	GOVERNMENT VEHICLE	Bill of Lading/Air Bill No.	N/A
Protocol	CERCLA	Priority:	30 Days	Offsite Property No.	N/A
POSSIBLE SAMPLE HAZARDS/REMARKS			SPECIAL INSTRUCTIONS	Hold Time	Total Activity Exemption: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
*Contains Radioactive Material at concentrations that are not be regulated for transportation per 49 CFR/LATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1.					

Sample No.	Filter	*	Date	Time	No./Type Container	Sample Analysis	Holding Time	Preservative
B331W/5	N	W	NOV 23 2015	1127	1x500-mL P	300.0 ANIONS_IC: COMMON; 300.0 ANIONS_IC: GW 01	48 Hours	Cool <=6C

#1685

W0637

December 08 2015

Relinquished By	BL Floyd/CHPRC	Print		Sign		Date/Time	NOV 23 2015 1213	Received By	F.M. Hall/CHPRC	Print		Sign		Date/Time	NOV 23 2015 1213
Relinquished By	F.M. Hall/CHPRC					Date/Time	NOV 23 2015 1430	Received By	J. Friesz, TARL					Date/Time	NOV 23 2015 1430
Relinquished By						Date/Time		Received By						Date/Time	

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

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time
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Client: CH2M Hill Plateau Remediation Company
Project/Site: X15-067TestAmerica Job ID: 300-1685-1
SDG: WC0637

Client Sample ID: B331P9

Lab Sample ID: 300-1685-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	16	D	10	5.0	mg/L	50		300.0	Total/NA
Nitrate as N	4.4	D	1.4	0.70	mg/L	50		300.0	Total/NA
Orthophosphate as P	230	D N	4.1	2.1	mg/L	50		300.0	Total/NA
Sulfate	45	D	13	6.3	mg/L	50		300.0	Total/NA

Client Sample ID: B331T5

Lab Sample ID: 300-1685-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	19	D	10	5.0	mg/L	50		300.0	Total/NA
Nitrate as N	3.2	D	1.4	0.70	mg/L	50		300.0	Total/NA
Orthophosphate as P	210	D N	4.1	2.1	mg/L	50		300.0	Total/NA
Sulfate	36	D	13	6.3	mg/L	50		300.0	Total/NA

Client Sample ID: B331R3

Lab Sample ID: 300-1685-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	15	B D	20	10	mg/L	100		300.0	Total/NA
Nitrate as N	3.7	D	2.8	1.4	mg/L	100		300.0	Total/NA
Orthophosphate as P	740	D N	8.2	4.1	mg/L	100		300.0	Total/NA
Sulfate	31	D	25	13	mg/L	100		300.0	Total/NA

Client Sample ID: B331T9

Lab Sample ID: 300-1685-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	27	D	10	5.0	mg/L	50		300.0	Total/NA
Nitrate as N	6.6	D	1.4	0.70	mg/L	50		300.0	Total/NA
Orthophosphate as P	83	D N	4.1	2.1	mg/L	50		300.0	Total/NA
Sulfate	46	D	13	6.3	mg/L	50		300.0	Total/NA

Client Sample ID: B331V7

Lab Sample ID: 300-1685-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	25	D	0.40	0.20	mg/L	2		300.0	Total/NA
Nitrate as N	9.0	D	0.056	0.028	mg/L	2		300.0	Total/NA
Fluoride	0.31	D	0.10	0.050	mg/L	2		300.0	Total/NA
Orthophosphate as P	14	D N	0.16	0.082	mg/L	2		300.0	Total/NA
Sulfate	50	D	0.50	0.25	mg/L	2		300.0	Total/NA

Client Sample ID: B331V3

Lab Sample ID: 300-1685-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	26	D	10	5.0	mg/L	50		300.0	Total/NA
Nitrate as N	11	D	1.4	0.70	mg/L	50		300.0	Total/NA
Orthophosphate as P	190	D N	4.1	2.1	mg/L	50		300.0	Total/NA
Sulfate	36	D	13	6.3	mg/L	50		300.0	Total/NA

Client Sample ID: B33205

Lab Sample ID: 300-1685-7

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Richland

Detection Summary

Client: CH2M Hill Plateau Remediation Company
 Project/Site: X15-067

TestAmerica Job ID: 300-1685-1
 SDG: WC0637

Client Sample ID: B331W1

Lab Sample ID: 300-1685-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	34	D	0.40	0.20	mg/L	2		300.0	Total/NA
Fluoride	0.18	D	0.10	0.050	mg/L	2		300.0	Total/NA
Sulfate	130	D	1.3	0.63	mg/L	5		300.0	Total/NA

Client Sample ID: B331W5

Lab Sample ID: 300-1685-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	49	D	10	5.0	mg/L	50		300.0	Total/NA
Nitrate as N	11	D	1.4	0.70	mg/L	50		300.0	Total/NA
Fluoride	1.7	B D	2.5	1.3	mg/L	50		300.0	Total/NA
Sulfate	53	D	13	6.3	mg/L	50		300.0	Total/NA

This Detection Summary does not include radiochemical test results.



Client: CH2M Hill Plateau Remediation Company
Project/Site: X15-067

TestAmerica Job ID: 300-1685-1
SDG: WC0637

Client Sample ID: B331P9

Date Collected: 11/23/15 11:13

Date Received: 11/23/15 14:30

Lab Sample ID: 300-1685-1

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	16	D	10	5.0	mg/L			11/24/15 16:41	50
Nitrate as N	4.4	D	1.4	0.70	mg/L			11/24/15 16:41	50
Fluoride	1.3	U	2.5	1.3	mg/L			11/24/15 16:41	50
Nitrite as N	0.95	U	1.9	0.95	mg/L			11/24/15 16:41	50
Orthophosphate as P	230	D N	4.1	2.1	mg/L			11/24/15 16:41	50
Sulfate	45	D	13	6.3	mg/L			11/24/15 16:41	50

Client Sample ID: B331T5

Date Collected: 11/23/15 10:24

Date Received: 11/23/15 14:30

Lab Sample ID: 300-1685-2

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	19	D	10	5.0	mg/L			11/24/15 16:56	50
Nitrate as N	3.2	D	1.4	0.70	mg/L			11/24/15 16:56	50
Fluoride	1.3	U	2.5	1.3	mg/L			11/24/15 16:56	50
Nitrite as N	0.95	U	1.9	0.95	mg/L			11/24/15 16:56	50
Orthophosphate as P	210	D N	4.1	2.1	mg/L			11/24/15 16:56	50
Sulfate	36	D	13	6.3	mg/L			11/24/15 16:56	50

Client Sample ID: B331R3

Date Collected: 11/23/15 11:43

Date Received: 11/23/15 14:30

Lab Sample ID: 300-1685-3

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	15	B D	20	10	mg/L			11/24/15 17:11	100
Nitrate as N	3.7	D	2.8	1.4	mg/L			11/24/15 17:11	100
Fluoride	2.5	U	5.0	2.5	mg/L			11/24/15 17:11	100
Nitrite as N	1.9	U	3.8	1.9	mg/L			11/24/15 17:11	100
Orthophosphate as P	740	D N	8.2	4.1	mg/L			11/24/15 17:11	100
Sulfate	31	D	25	13	mg/L			11/24/15 17:11	100

Client Sample ID: B331T9

Date Collected: 11/23/15 09:02

Date Received: 11/23/15 14:30

Lab Sample ID: 300-1685-4

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	27	D	10	5.0	mg/L			11/24/15 17:56	50
Nitrate as N	6.6	D	1.4	0.70	mg/L			11/24/15 17:56	50
Fluoride	1.3	U	2.5	1.3	mg/L			11/24/15 17:56	50
Nitrite as N	0.95	U	1.9	0.95	mg/L			11/24/15 17:56	50
Orthophosphate as P	83	D N	4.1	2.1	mg/L			11/24/15 17:56	50
Sulfate	46	D	13	6.3	mg/L			11/24/15 17:56	50

Client Sample Results

Client: CH2M Hill Plateau Remediation Company
 Project/Site: X15-067

TestAmerica Job ID: 300-1685-1
 SDG: WC0637

Client Sample ID: B331V7
Date Collected: 11/23/15 09:22
Date Received: 11/23/15 14:30

Lab Sample ID: 300-1685-5
Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	25	D	0.40	0.20	mg/L			11/24/15 16:10	2
Nitrate as N	9.0	D	0.056	0.028	mg/L			11/24/15 16:10	2
Fluoride	0.31	D	0.10	0.050	mg/L			11/24/15 16:10	2
Nitrite as N	0.038	U	0.076	0.038	mg/L			11/24/15 16:10	2
Orthophosphate as P	14	D N	0.16	0.082	mg/L			11/24/15 16:10	2
Sulfate	50	D	0.50	0.25	mg/L			11/24/15 16:10	2

Client Sample ID: B331V3
Date Collected: 11/23/15 10:00
Date Received: 11/23/15 14:30

Lab Sample ID: 300-1685-6
Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	26	D	10	5.0	mg/L			11/24/15 18:11	50
Nitrate as N	11	D	1.4	0.70	mg/L			11/24/15 18:11	50
Fluoride	1.3	U	2.5	1.3	mg/L			11/24/15 18:11	50
Nitrite as N	0.95	U	1.9	0.95	mg/L			11/24/15 18:11	50
Orthophosphate as P	190	D N	4.1	2.1	mg/L			11/24/15 18:11	50
Sulfate	36	D	13	6.3	mg/L			11/24/15 18:11	50

Client Sample ID: B33205
Date Collected: 11/23/15 07:45
Date Received: 11/23/15 14:30

Lab Sample ID: 300-1685-7
Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.20	U	0.40	0.20	mg/L			11/24/15 16:26	2
Nitrate as N	0.028	U	0.056	0.028	mg/L			11/24/15 16:26	2
Fluoride	0.050	U	0.10	0.050	mg/L			11/24/15 16:26	2
Nitrite as N	0.038	U	0.076	0.038	mg/L			11/24/15 16:26	2
Orthophosphate as P	0.082	U N	0.16	0.082	mg/L			11/24/15 16:26	2
Sulfate	0.25	U	0.50	0.25	mg/L			11/24/15 16:26	2

Client Sample ID: B331W1
Date Collected: 11/23/15 10:48
Date Received: 11/23/15 14:30

Lab Sample ID: 300-1685-8
Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	34	D	0.40	0.20	mg/L			11/24/15 15:25	2
Nitrate as N	0.028	U	0.056	0.028	mg/L			11/24/15 15:25	2
Fluoride	0.18	D	0.10	0.050	mg/L			11/24/15 15:25	2
Nitrite as N	0.038	U	0.076	0.038	mg/L			11/24/15 15:25	2
Orthophosphate as P	0.082	U N	0.16	0.082	mg/L			11/24/15 15:25	2
Sulfate	130	D	1.3	0.63	mg/L			11/24/15 18:41	5

Client: CH2M Hill Plateau Remediation Company
 Project/Site: X15-067

TestAmerica Job ID: 300-1685-1
 SDG: WC0637

Client Sample ID: B331W5

Lab Sample ID: 300-1685-9

Date Collected: 11/23/15 11:27

Matrix: Water

Date Received: 11/23/15 14:30

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	49	D	10	5.0	mg/L			11/24/15 18:26	50
Nitrate as N	11	D	1.4	0.70	mg/L			11/24/15 18:26	50
Fluoride	1.7	B D	2.5	1.3	mg/L			11/24/15 18:26	50
Nitrite as N	0.95	U	1.9	0.95	mg/L			11/24/15 18:26	50
Orthophosphate as P	2.1	U N	4.1	2.1	mg/L			11/24/15 18:26	50
Sulfate	53	D	13	6.3	mg/L			11/24/15 18:26	50



Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 300-2158/11
Matrix: Water
Analysis Batch: 2158

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.10	U	0.20	0.10	mg/L			11/24/15 14:55	1
Fluoride	0.025	U	0.050	0.025	mg/L			11/24/15 14:55	1
Sulfate	0.13	U	0.25	0.13	mg/L			11/24/15 14:55	1

Lab Sample ID: LCS 300-2158/12
Matrix: Water
Analysis Batch: 2158

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	16.0	16.5		mg/L		103	80 - 120
Fluoride	4.00	4.15		mg/L		104	80 - 120
Sulfate	20.0	20.7		mg/L		103	80 - 120

Lab Sample ID: 300-1685-8 MS
Matrix: Water
Analysis Batch: 2158

Client Sample ID: B331W1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	34	D	3.20	37.3	D	mg/L		100	75 - 125
Fluoride	0.18	D	0.800	0.972	D	mg/L		99	75 - 125

Lab Sample ID: 300-1685-8 MS
Matrix: Water
Analysis Batch: 2158

Client Sample ID: B331W1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	130	D	10.0	140	D	mg/L		106	75 - 125

Lab Sample ID: 300-1685-8 DU
Matrix: Water
Analysis Batch: 2158

Client Sample ID: B331W1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chloride	34	D	34.1	D	mg/L		0.06	20
Fluoride	0.18	D	0.186	D	mg/L		1	20

Lab Sample ID: 300-1685-8 DU
Matrix: Water
Analysis Batch: 2158

Client Sample ID: B331W1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Sulfate	130	D	130	D	mg/L		0.05	20

Lab Sample ID: MB 300-2159/11
Matrix: Water
Analysis Batch: 2159

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	0.014	U	0.028	0.014	mg/L			11/24/15 14:55	1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 300-2159/11
Matrix: Water
Analysis Batch: 2159

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	0.019	U	0.038	0.019	mg/L			11/24/15 14:55	1
Orthophosphate as P	0.041	U	0.082	0.041	mg/L			11/24/15 14:55	1

Lab Sample ID: LCS 300-2159/12
Matrix: Water
Analysis Batch: 2159

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	2.26	2.36		mg/L		105	80 - 120
Nitrite as N	3.04	3.19		mg/L		105	80 - 120
Orthophosphate as P	6.53	6.79		mg/L		104	80 - 120

Lab Sample ID: 300-1685-8 MS
Matrix: Water
Analysis Batch: 2159

Client Sample ID: B331W1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	0.028	U	0.452	0.437	D	mg/L		97	75 - 125
Nitrite as N	0.038	U	0.609	0.553	D	mg/L		91	75 - 125
Orthophosphate as P	0.082	U N	1.31	0.602	D N	mg/L		46	75 - 125

Lab Sample ID: 300-1685-8 DU
Matrix: Water
Analysis Batch: 2159

Client Sample ID: B331W1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrate as N	0.028	U	0.028	U	mg/L		NC	20
Nitrite as N	0.038	U	0.038	U	mg/L		NC	20
Orthophosphate as P	0.082	U N	0.082	U	mg/L		NC	20

Client: CH2M Hill Plateau Remediation Company
 Project/Site: X15-067

TestAmerica Job ID: 300-1685-1
 SDG: WC0637

HPLC/IC

Analysis Batch: 2158

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
300-1685-1	B331P9	Total/NA	Water	300.0	
300-1685-2	B331T5	Total/NA	Water	300.0	
300-1685-3	B331R3	Total/NA	Water	300.0	
300-1685-4	B331T9	Total/NA	Water	300.0	
300-1685-5	B331V7	Total/NA	Water	300.0	
300-1685-6	B331V3	Total/NA	Water	300.0	
300-1685-7	B33205	Total/NA	Water	300.0	
300-1685-8	B331W1	Total/NA	Water	300.0	
300-1685-8	B331W1	Total/NA	Water	300.0	
300-1685-8 DU	B331W1	Total/NA	Water	300.0	
300-1685-8 DU	B331W1	Total/NA	Water	300.0	
300-1685-8 MS	B331W1	Total/NA	Water	300.0	
300-1685-8 MS	B331W1	Total/NA	Water	300.0	
300-1685-9	B331W5	Total/NA	Water	300.0	
LCS 300-2158/12	Lab Control Sample	Total/NA	Water	300.0	
MB 300-2158/11	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 2159

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
300-1685-1	B331P9	Total/NA	Water	300.0	
300-1685-2	B331T5	Total/NA	Water	300.0	
300-1685-3	B331R3	Total/NA	Water	300.0	
300-1685-4	B331T9	Total/NA	Water	300.0	
300-1685-5	B331V7	Total/NA	Water	300.0	
300-1685-6	B331V3	Total/NA	Water	300.0	
300-1685-7	B33205	Total/NA	Water	300.0	
300-1685-8	B331W1	Total/NA	Water	300.0	
300-1685-8 DU	B331W1	Total/NA	Water	300.0	
300-1685-8 MS	B331W1	Total/NA	Water	300.0	
300-1685-9	B331W5	Total/NA	Water	300.0	
LCS 300-2159/12	Lab Control Sample	Total/NA	Water	300.0	
MB 300-2159/11	Method Blank	Total/NA	Water	300.0	

Client: CH2M Hill Plateau Remediation Company
Project/Site: X15-067TestAmerica Job ID: 300-1685-1
SDG: WC0637**Client Sample ID: B331P9**

Date Collected: 11/23/15 11:13

Date Received: 11/23/15 14:30

Lab Sample ID: 300-1685-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		50	1 mL		2158	11/24/15 16:41	CPM	TAL RCH
Total/NA	Analysis	300.0		50	1 mL		2159	11/24/15 16:41	CPM	TAL RCH

Client Sample ID: B331T5

Date Collected: 11/23/15 10:24

Date Received: 11/23/15 14:30

Lab Sample ID: 300-1685-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		50	1 mL		2158	11/24/15 16:56	CPM	TAL RCH
Total/NA	Analysis	300.0		50	1 mL		2159	11/24/15 16:56	CPM	TAL RCH

Client Sample ID: B331R3

Date Collected: 11/23/15 11:43

Date Received: 11/23/15 14:30

Lab Sample ID: 300-1685-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		100	1 mL		2158	11/24/15 17:11	CPM	TAL RCH
Total/NA	Analysis	300.0		100	1 mL		2159	11/24/15 17:11	CPM	TAL RCH

Client Sample ID: B331T9

Date Collected: 11/23/15 09:02

Date Received: 11/23/15 14:30

Lab Sample ID: 300-1685-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		50	1 mL		2158	11/24/15 17:56	CPM	TAL RCH
Total/NA	Analysis	300.0		50	1 mL		2159	11/24/15 17:56	CPM	TAL RCH

Client Sample ID: B331V7

Date Collected: 11/23/15 09:22

Date Received: 11/23/15 14:30

Lab Sample ID: 300-1685-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		2	1 mL		2158	11/24/15 16:10	CPM	TAL RCH
Total/NA	Analysis	300.0		2	1 mL		2159	11/24/15 16:10	CPM	TAL RCH

Client Sample ID: B331V3

Date Collected: 11/23/15 10:00

Date Received: 11/23/15 14:30

Lab Sample ID: 300-1685-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		50	1 mL		2158	11/24/15 18:11	CPM	TAL RCH

Client: CH2M Hill Plateau Remediation Company
 Project/Site: X15-067

TestAmerica Job ID: 300-1685-1
 SDG: WC0637

Client Sample ID: B331V3

Date Collected: 11/23/15 10:00
 Date Received: 11/23/15 14:30

Lab Sample ID: 300-1685-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		50	1 mL		2159	11/24/15 18:11	CPM	TAL RCH

Client Sample ID: B33205

Date Collected: 11/23/15 07:45
 Date Received: 11/23/15 14:30

Lab Sample ID: 300-1685-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		2	1 mL		2158	11/24/15 16:26	CPM	TAL RCH
Total/NA	Analysis	300.0		2	1 mL		2159	11/24/15 16:26	CPM	TAL RCH

Client Sample ID: B331W1

Date Collected: 11/23/15 10:48
 Date Received: 11/23/15 14:30

Lab Sample ID: 300-1685-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		2	1 mL		2158	11/24/15 15:25	CPM	TAL RCH
Total/NA	Analysis	300.0		2	1 mL		2159	11/24/15 15:25	CPM	TAL RCH
Total/NA	Analysis	300.0		5	1 mL		2158	11/24/15 18:41	CPM	TAL RCH

Client Sample ID: B331W5

Date Collected: 11/23/15 11:27
 Date Received: 11/23/15 14:30

Lab Sample ID: 300-1685-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		50	1 mL		2158	11/24/15 18:26	CPM	TAL RCH
Total/NA	Analysis	300.0		50	1 mL		2159	11/24/15 18:26	CPM	TAL RCH

Client Sample ID: B331W1

Date Collected: 11/23/15 10:48
 Date Received: 11/23/15 14:30

Lab Sample ID: 300-1685-8 DU

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		2	1 mL		2158	11/24/15 15:55	CPM	TAL RCH
Total/NA	Analysis	300.0		2	1 mL		2159	11/24/15 15:55	CPM	TAL RCH
Total/NA	Analysis	300.0		5	1 mL		2158	11/24/15 19:11	CPM	TAL RCH

Client: CH2M Hill Plateau Remediation Company
 Project/Site: X15-067

TestAmerica Job ID: 300-1685-1
 SDG: WC0637

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 300-2158/12

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	1 mL		2158	11/24/15 15:10	CPM	TAL RCH

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 300-2159/12

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	1 mL		2159	11/24/15 15:10	CPM	TAL RCH

Client Sample ID: Method Blank

Lab Sample ID: MB 300-2158/11

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	1 mL		2158	11/24/15 14:55	CPM	TAL RCH

Client Sample ID: Method Blank

Lab Sample ID: MB 300-2159/11

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	1 mL		2159	11/24/15 14:55	CPM	TAL RCH

Client Sample ID: B331W1

Lab Sample ID: 300-1685-8 MS

Date Collected: 11/23/15 10:48

Matrix: Water

Date Received: 11/23/15 14:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		2	1 mL		2158	11/24/15 15:40	CPM	TAL RCH
Total/NA	Analysis	300.0		2	1 mL		2159	11/24/15 15:40	CPM	TAL RCH
Total/NA	Analysis	300.0		5	1 mL		2158	11/24/15 18:56	CPM	TAL RCH

Laboratory References:

TAL RCH = TestAmerica Richland, 2800 George Washington Way, Richland, WA 99352, TEL (509)375-3131

Client: CH2M Hill Plateau Remediation Company
Project/Site: X15-067

TestAmerica Job ID: 300-1685-1
SDG: WC0637

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	MCAWW	TAL RCH

Protocol References:

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

Laboratory References:

TAL RCH = TestAmerica Richland, 2800 George Washington Way, Richland, WA 99352, TEL (509)375-3131



Sample Summary

Client: CH2M Hill Plateau Remediation Company
 Project/Site: X15-067

TestAmerica Job ID: 300-1685-1
 SDG: WC0637

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
300-1685-1	B331P9	Water	11/23/15 11:13	11/23/15 14:30
300-1685-2	B331T5	Water	11/23/15 10:24	11/23/15 14:30
300-1685-3	B331R3	Water	11/23/15 11:43	11/23/15 14:30
300-1685-4	B331T9	Water	11/23/15 09:02	11/23/15 14:30
300-1685-5	B331V7	Water	11/23/15 09:22	11/23/15 14:30
300-1685-6	B331V3	Water	11/23/15 10:00	11/23/15 14:30
300-1685-7	B33205	Water	11/23/15 07:45	11/23/15 14:30
300-1685-8	B331W1	Water	11/23/15 10:48	11/23/15 14:30
300-1685-9	B331W5	Water	11/23/15 11:27	11/23/15 14:30



Login Sample Receipt Checklist

Client: CH2M Hill Plateau Remediation Company

Job Number: 300-1685-1

SDG Number: WC0637

Login Number: 1685

List Number: 1

Creator: Friesz, Jordan D

List Source: TestAmerica Richland

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.	N/A	
Cooler Temperature is acceptable.	N/A	
Cooler Temperature is recorded.	N/A	
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.	N/A	
Sample Preservation Verified.	N/A	
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.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

