

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

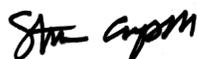
ANALYTICAL REPORT

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

TestAmerica Job ID: 300-1687-1
TestAmerica Sample Delivery Group: WC0639
Client Project/Site: CHPRC Chemical Hanford

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

Attn: CPP Sample Management



Authorized for release by:
11/30/2015 2:26:13 PM
Steven Campbell, Quality Assurance Assistant
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Designee for
Whitney Ritari, Project Manager I
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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.



LINKS

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Qualifiers**HPLC/IC**

Qualifier	Qualifier Description
B	Estimated result. Result is less than the RL, but greater than MDL
D	The reported value is from a dilution.
U	Analyzed for but not detected.

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: CHPRC Chemical Hanford

TestAmerica Job ID: 300-1687-1
SDG: WC0639

Job ID: 300-1687-1

Laboratory: TestAmerica Richland

Narrative

**Job Narrative
300-1687-1**

Comments

No additional comments.

Receipt

The samples were received on 11/24/2015 2:30 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 7.7° C.

HPLC/IC

Method 300.0: Manual integration was performed on the following sample for Nitrite as N: B331M5 (300-1687-4).

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. #
X15-067-034
Page 1 of 1

Collector	DL Floyd/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 81/46447	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
B331X3	N	NOV 23 2015	1320	1x500-ml P	300.0 ANIONS_IC: COMMON; 300.0 ANIONS_IC: GW 01	48 Hours	Cool <=6C

41687
W06039

300-1687 COC



November 30 2015

Reinquinshed By	DL Floyd/CHPRC	Print	Sign	Date/Time	NOV 23 2015 1520	Received By	SSU-1	Print	Sign	Date/Time	NOV 23 2015 1520	Matrix *
Reinquinshed By	SSU-1	Date/Time	NOV 24 2015 1015	Received By	L.D. Wall CHPRC	Date/Time	NOV 24 2015 1015	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		
Reinquinshed By	L.D. Wall CHPRC	Print	Sign	Date/Time	NOV 24 2015 1430	Received By	J. Bock, TARR	Date/Time	NOV 24 2015 1430	Matrix *		

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

C.O.C. #
X15-067-042
Page 1 of 1

Collector	DL Floyd/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 81/4647	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	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/ATA 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
B331W9	N	NOV 23 2015	1258	1x500-mL P	300.0 ANIONS IC: COMMON; 300.0 ANIONS_IC: GW 01	48 Hours	Cool <=6C

11/23/15
W 02:58

November 30 2015

Relinquished By	DL Floyd/CHPRC	Print		Sign	NOV 23 2015 1520	Received By	SSU-1	Print	NOV 23 2015 1520	Date/Time	NOV 23 2015 1520	Matrix *
Relinquished By	SSU-1	Date/Time	NOV 24 2015 1015	Received By	L.D. Wall	Print		Sign	NOV 24 2015 1430	Date/Time	NOV 24 2015 1430	Matrix *
Relinquished By	L.D. Wall	Date/Time	NOV 24 2015 1430	Received By	J. Bock TABL	Print		Sign	NOV 24 2015 1430	Date/Time	NOV 24 2015 1430	Matrix *

- S = Soil
- SE = Sediment
- SO = Solid
- SL = Sludge
- W = Water
- O = Oil
- A = Air
- DS = Drums Solids
- DL = Drums 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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CH2MHill Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #
X15-067-044
Page 1 of 1

Collector	DL Foyel/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 81/47	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/ATA 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
B331M9	N	NOV 23 2015	1428	1x500-mL P	300.0 ANIONS IC: COMMON; 300.0 ANIONS_IC: GW 01	48 Hours	Cool <=6C

1681
W000639

November 30 2015

Reinquished By	DL Foyel/CHPRC	Print		Sign	NOV 23 2015 1520	Received By	SSU-1	Print	NOV 23 2015 1520	Sign	NOV 23 2015 1520	Matrix *									
Reinquished By	SSU-1	Date/Time	NOV 24 2015 1015	Received By	L.D. Wall	Print		Sign	NOV 24 2015 1015	Received By	CHPRC	Date/Time	NOV 24 2015 1430								
Reinquished By	L.D. Wall	Date/Time	NOV 24 2015 1430	Received By	J. Beck, TARI	Date/Time	NOV 24 2015 1430	Matrix *	S = Soil	DS = Drum Solids	DL = Drum Liquids	SO = Solid	T = Tissue	SL = Sludge	WT = Wipe	W = Water	L = Liquid	V = Vegetation	O = Oil	X = Other	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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CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #
X15-067-048
Page 1 of 1

CH2M Hill Plateau Remediation Company		Collector: DL Floyd/CHPRC		Contact/Requester: WHITLEY, KM		Telephone No.: 373-4929	
SAF No.: X15-067		Sampling Origin: Hamford Site		Purchase Order/Charge Code: 300205		Ice Chest No.: N/A	
Project Title: 300 Area Uranium Segregation Post Inj		Logbook No.: HNF-N-506 81/47		Method of Shipment: GOVERNMENT VEHICLE		Bill of Lading/Air Bill No.: N/A	
Shipped To (Lab): TestAmerica Incorporated, Richland		Priority: 30 Days		Hold Time:		Total Activity Exemption: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Protocol: CERCLA		POSSIBLE SAMPLE HAZARDS/REMARKS *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.		SPECIAL INSTRUCTIONS:		Offsite Property No.: N/A	
Sample No.: B331M5	Filter: N	Date: NOV 23 2015	Time: 1356	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

16949
WCC0639

November 30 2015

Reinquished By: DL Floyd/CHPRC		Print Sign		Date/Time: NOV 23 2015 1520		Received By: SSU-1		Print Sign		Date/Time: NOV 23 2015 1520		Matrix *	
Reinquished By: SSU-1		Date/Time: NOV 24 2015 1015		Received By:		Date/Time: NOV 24 2015 1015		Date/Time: NOV 24 2015 1430		Date/Time:		S = Soil SE = Sediment SO = Solid SL = Sludge W = Water O = Oil A = Air	
Reinquished By: L.D. Wall		Print Sign		Date/Time: NOV 24 2015 1430		Received By:		Print Sign		Date/Time: NOV 24 2015 1430		DS = Drum Solids DL = Drum Liquids T = Tissue WT = Wipe L = Liquid V = Vegetation X = Other	
Reinquished By: CHPRC		Date/Time:		Received By:		Date/Time:		Disposed By:		Date/Time:		FINAL SAMPLE DISPOSITION	

Client: CH2M Hill Plateau Remediation Company
 Project/Site: CHPRC Chemical Hanford

TestAmerica Job ID: 300-1687-1
 SDG: WC0639

Client Sample ID: B331X3

Lab Sample ID: 300-1687-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	19	B D	20	10	mg/L	100		300.0	Total/NA
Nitrate as N	13	D	2.8	1.4	mg/L	100		300.0	Total/NA
Orthophosphate as P	530	D	8.2	4.1	mg/L	100		300.0	Total/NA
Sulfate	44	D	25	13	mg/L	100		300.0	Total/NA

Client Sample ID: B331W9

Lab Sample ID: 300-1687-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	9.5	B D	10	5.0	mg/L	50		300.0	Total/NA
Nitrate as N	2.1	D	1.4	0.70	mg/L	50		300.0	Total/NA
Orthophosphate as P	330	D	4.1	2.1	mg/L	50		300.0	Total/NA
Sulfate	22	D	13	6.3	mg/L	50		300.0	Total/NA

Client Sample ID: B331M9

Lab Sample ID: 300-1687-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	19	D	0.40	0.20	mg/L	2		300.0	Total/NA
Nitrate as N	5.9	D	0.056	0.028	mg/L	2		300.0	Total/NA
Fluoride	0.35	D	0.10	0.050	mg/L	2		300.0	Total/NA
Orthophosphate as P	0.14	B D	0.16	0.082	mg/L	2		300.0	Total/NA
Sulfate	59	D	0.50	0.25	mg/L	2		300.0	Total/NA

Client Sample ID: B331M5

Lab Sample ID: 300-1687-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	16	D	0.40	0.20	mg/L	2		300.0	Total/NA
Nitrate as N	4.0	D	0.056	0.028	mg/L	2		300.0	Total/NA
Fluoride	0.39	D	0.10	0.050	mg/L	2		300.0	Total/NA
Nitrite as N	0.068	B D	0.076	0.038	mg/L	2		300.0	Total/NA
Orthophosphate as P	3.3	D	0.16	0.082	mg/L	2		300.0	Total/NA
Sulfate	48	D	0.50	0.25	mg/L	2		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Richland

Client: CH2M Hill Plateau Remediation Company
Project/Site: CHPRC Chemical Hanford

TestAmerica Job ID: 300-1687-1
SDG: WC0639

Client Sample ID: B331X3

Date Collected: 11/23/15 13:20

Date Received: 11/24/15 14:30

Lab Sample ID: 300-1687-1

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	19	B D	20	10	mg/L			11/24/15 21:55	100
Nitrate as N	13	D	2.8	1.4	mg/L			11/24/15 21:55	100
Fluoride	2.5	U	5.0	2.5	mg/L			11/24/15 21:55	100
Nitrite as N	1.9	U	3.8	1.9	mg/L			11/24/15 21:55	100
Orthophosphate as P	530	D	8.2	4.1	mg/L			11/24/15 21:55	100
Sulfate	44	D	25	13	mg/L			11/24/15 21:55	100

Client Sample ID: B331W9

Date Collected: 11/23/15 12:58

Date Received: 11/24/15 14:30

Lab Sample ID: 300-1687-2

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.5	B D	10	5.0	mg/L			11/24/15 22:10	50
Nitrate as N	2.1	D	1.4	0.70	mg/L			11/24/15 22:10	50
Fluoride	1.3	U	2.5	1.3	mg/L			11/24/15 22:10	50
Nitrite as N	0.95	U	1.9	0.95	mg/L			11/24/15 22:10	50
Orthophosphate as P	330	D	4.1	2.1	mg/L			11/24/15 22:10	50
Sulfate	22	D	13	6.3	mg/L			11/24/15 22:10	50

Client Sample ID: B331M9

Date Collected: 11/23/15 14:28

Date Received: 11/24/15 14:30

Lab Sample ID: 300-1687-3

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	19	D	0.40	0.20	mg/L			11/24/15 19:24	2
Nitrate as N	5.9	D	0.056	0.028	mg/L			11/24/15 19:24	2
Fluoride	0.35	D	0.10	0.050	mg/L			11/24/15 19:24	2
Nitrite as N	0.038	U	0.076	0.038	mg/L			11/24/15 19:24	2
Orthophosphate as P	0.14	B D	0.16	0.082	mg/L			11/24/15 19:24	2
Sulfate	59	D	0.50	0.25	mg/L			11/24/15 19:24	2

Client Sample ID: B331M5

Date Collected: 11/23/15 13:56

Date Received: 11/24/15 14:30

Lab Sample ID: 300-1687-4

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	16	D	0.40	0.20	mg/L			11/24/15 20:09	2
Nitrate as N	4.0	D	0.056	0.028	mg/L			11/24/15 20:09	2
Fluoride	0.39	D	0.10	0.050	mg/L			11/24/15 20:09	2
Nitrite as N	0.068	B D	0.076	0.038	mg/L			11/24/15 20:09	2
Orthophosphate as P	3.3	D	0.16	0.082	mg/L			11/24/15 20:09	2
Sulfate	48	D	0.50	0.25	mg/L			11/24/15 20:09	2

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 300-2156/30
 Matrix: Water
 Analysis Batch: 2156

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 18:54	1
Fluoride	0.025	U	0.050	0.025	mg/L			11/24/15 18:54	1
Sulfate	0.13	U	0.25	0.13	mg/L			11/24/15 18:54	1

Lab Sample ID: LCS 300-2156/31
 Matrix: Water
 Analysis Batch: 2156

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	16.6		mg/L		104	80 - 120
Fluoride	4.00	4.18		mg/L		104	80 - 120
Sulfate	20.0	20.9		mg/L		104	80 - 120

Lab Sample ID: 300-1687-3 MS
 Matrix: Water
 Analysis Batch: 2156

Client Sample ID: B331M9
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	19	D	3.20	22.3	D	mg/L		101	75 - 125
Fluoride	0.35	D	0.800	1.15	D	mg/L		100	75 - 125
Sulfate	59	D	4.00	63.1	D	mg/L		99	75 - 125

Lab Sample ID: 300-1687-3 DU
 Matrix: Water
 Analysis Batch: 2156

Client Sample ID: B331M9
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chloride	19	D	19.2	D	mg/L		0.8	20
Fluoride	0.35	D	0.349	D	mg/L		0.5	20
Sulfate	59	D	59.5	D	mg/L		0.7	20

Lab Sample ID: MB 300-2157/30
 Matrix: Water
 Analysis Batch: 2157

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 18:54	1
Nitrite as N	0.019	U	0.038	0.019	mg/L			11/24/15 18:54	1
Orthophosphate as P	0.041	U	0.082	0.041	mg/L			11/24/15 18:54	1

Lab Sample ID: LCS 300-2157/31
 Matrix: Water
 Analysis Batch: 2157

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	2.38		mg/L		105	80 - 120
Nitrite as N	3.04	3.20		mg/L		105	80 - 120
Orthophosphate as P	6.53	6.86		mg/L		105	80 - 120

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 300-1687-3 MS
 Matrix: Water
 Analysis Batch: 2157

Client Sample ID: B331M9
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	5.9	D	0.452	6.33	D	mg/L		99	75 - 125
Nitrite as N	0.038	U	0.609	0.553	D	mg/L		91	75 - 125
Orthophosphate as P	0.14	B D	1.31	1.29	D	mg/L		88	75 - 125

Lab Sample ID: 300-1687-3 DU
 Matrix: Water
 Analysis Batch: 2157

Client Sample ID: B331M9
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrate as N	5.9	D	5.93	D	mg/L		0.8	20
Nitrite as N	0.038	U	0.038	U	mg/L		NC	20
Orthophosphate as P	0.14	B D	0.136	B D	mg/L		1	20



Client: CH2M Hill Plateau Remediation Company
 Project/Site: CHPRC Chemical Hanford

TestAmerica Job ID: 300-1687-1
 SDG: WC0639

HPLC/IC

Analysis Batch: 2156

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
300-1687-1	B331X3	Total/NA	Water	300.0	
300-1687-2	B331W9	Total/NA	Water	300.0	
300-1687-3	B331M9	Total/NA	Water	300.0	
300-1687-3 DU	B331M9	Total/NA	Water	300.0	
300-1687-3 MS	B331M9	Total/NA	Water	300.0	
300-1687-4	B331M5	Total/NA	Water	300.0	
LCS 300-2156/31	Lab Control Sample	Total/NA	Water	300.0	
MB 300-2156/30	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 2157

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
300-1687-1	B331X3	Total/NA	Water	300.0	
300-1687-2	B331W9	Total/NA	Water	300.0	
300-1687-3	B331M9	Total/NA	Water	300.0	
300-1687-3 DU	B331M9	Total/NA	Water	300.0	
300-1687-3 MS	B331M9	Total/NA	Water	300.0	
300-1687-4	B331M5	Total/NA	Water	300.0	
LCS 300-2157/31	Lab Control Sample	Total/NA	Water	300.0	
MB 300-2157/30	Method Blank	Total/NA	Water	300.0	

Client: CH2M Hill Plateau Remediation Company
 Project/Site: CHPRC Chemical Hanford

TestAmerica Job ID: 300-1687-1
 SDG: WC0639

Client Sample ID: B331X3

Date Collected: 11/23/15 13:20

Date Received: 11/24/15 14:30

Lab Sample ID: 300-1687-1

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		100	1 mL		2156	11/24/15 21:55	CPM	TAL RCH
Total/NA	Analysis	300.0		100	1 mL		2157	11/24/15 21:55	CPM	TAL RCH

Client Sample ID: B331W9

Date Collected: 11/23/15 12:58

Date Received: 11/24/15 14:30

Lab Sample ID: 300-1687-2

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		2156	11/24/15 22:10	CPM	TAL RCH
Total/NA	Analysis	300.0		50	1 mL		2157	11/24/15 22:10	CPM	TAL RCH

Client Sample ID: B331M9

Date Collected: 11/23/15 14:28

Date Received: 11/24/15 14:30

Lab Sample ID: 300-1687-3

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		2	1 mL		2156	11/24/15 19:24	CPM	TAL RCH
Total/NA	Analysis	300.0		2	1 mL		2157	11/24/15 19:24	CPM	TAL RCH

Client Sample ID: B331M5

Date Collected: 11/23/15 13:56

Date Received: 11/24/15 14:30

Lab Sample ID: 300-1687-4

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		2	1 mL		2156	11/24/15 20:09	CPM	TAL RCH
Total/NA	Analysis	300.0		2	1 mL		2157	11/24/15 20:09	CPM	TAL RCH

Client Sample ID: B331M9

Date Collected: 11/23/15 14:28

Date Received: 11/24/15 14:30

Lab Sample ID: 300-1687-3 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		2156	11/24/15 19:54	CPM	TAL RCH
Total/NA	Analysis	300.0		2	1 mL		2157	11/24/15 19:54	CPM	TAL RCH

Client Sample ID: Lab Control Sample

Date Collected: N/A

Date Received: N/A

Lab Sample ID: LCS 300-2156/31

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		1	1 mL		2156	11/24/15 19:09	CPM	TAL RCH

Client: CH2M Hill Plateau Remediation Company
 Project/Site: CHPRC Chemical Hanford

TestAmerica Job ID: 300-1687-1
 SDG: WC0639

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 300-2157/31

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		2157	11/24/15 19:09	CPM	TAL RCH

Client Sample ID: Method Blank

Lab Sample ID: MB 300-2156/30

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		2156	11/24/15 18:54	CPM	TAL RCH

Client Sample ID: Method Blank

Lab Sample ID: MB 300-2157/30

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		2157	11/24/15 18:54	CPM	TAL RCH

Client Sample ID: B331M9

Lab Sample ID: 300-1687-3 MS

Date Collected: 11/23/15 14:28

Matrix: Water

Date Received: 11/24/15 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		2156	11/24/15 19:39	CPM	TAL RCH
Total/NA	Analysis	300.0		2	1 mL		2157	11/24/15 19:39	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: CHPRC Chemical Hanford

TestAmerica Job ID: 300-1687-1
SDG: WC0639

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



November 30, 2015

Sample Summary

Client: CH2M Hill Plateau Remediation Company
Project/Site: CHPRC Chemical Hanford

TestAmerica Job ID: 300-1687-1
SDG: WC0639

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
300-1687-1	B331X3	Water	11/23/15 13:20	11/24/15 14:30
300-1687-2	B331W9	Water	11/23/15 12:58	11/24/15 14:30
300-1687-3	B331M9	Water	11/23/15 14:28	11/24/15 14:30
300-1687-4	B331M5	Water	11/23/15 13:56	11/24/15 14:30

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

Login Sample Receipt Checklist

Client: CH2M Hill Plateau Remediation Company

Job Number: 300-1687-1

SDG Number: WC0639

Login Number: 1687

List Number: 1

Creator: Bock, Julie A

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.	True	
Cooler Temperature is acceptable.	True	
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.	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.	N/A	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

