

# 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: 300-1848-1  
TestAmerica Sample Delivery Group: WC0712  
Client Project/Site: X15-070

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

Attn: CPP Sample Management



Authorized for release by:  
12/23/2015 9:40:08 AM  
Steven Campbell, Quality Assurance Assistant  
[steven.campbell@testamericainc.com](mailto:steven.campbell@testamericainc.com)

Designee for  
Whitney Ritari, Project Manager I  
(509)375-3131 ext164  
[whitney.ritari@testamericainc.com](mailto:whitney.ritari@testamericainc.com)

*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

Review your project results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://www.testamericainc.com)

- 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 . . . . .	8
Client Sample Results . . . . .	9
QC Sample Results . . . . .	10
QC Association Summary . . . . .	12
Lab Chronicle . . . . .	13
Method Summary . . . . .	15
Sample Summary . . . . .	16
Receipt Checklists . . . . .	17

**Qualifiers****HPLC/IC**

Qualifier	Qualifier Description
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.
▫	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: X15-070

TestAmerica Job ID: 300-1848-1  
SDG: WC0712

---

**Job ID: 300-1848-1**

---

**Laboratory: TestAmerica Richland**

**Narrative**

---

**Job Narrative  
300-1848-1**

**Comments**

No additional comments.

**Receipt**

The samples were received on 12/15/2015 11:50 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 9.3° C.

**HPLC/IC**

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



**CH2M/Hill Plateau Remediation Company**

**CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST**

C.O.C. #  
**X15-070-041**  
Page 1 of 1

Collector	DL Floyd/CHPRC	Contact/Requester	WHITLEY, KM	Telephone No.	373-4929
SAF No.	X15-070	Sampling Origin	Hamford Site	Purchase Order/Charge Code	300205
Project Title	300 Area Uranium Segregation Post Inj	Logbook No.	HNF-N-50680/61	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
<b>POSSIBLE SAMPLE HAZARDS/REMARKS</b>			<b>SPECIAL INSTRUCTIONS</b>		
*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.			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
B339J4	N	DEC 15 2015	0945	1x500-mL P	300.0_ANIONS_IC: COMMON; 300.0_ANIONS_IC: GW 01	48 Hours	Cool <=6C

*Handwritten:* A1844  
WCC012



300-1848 COC

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time	Matrix *
DL Floyd/CHPRC			DEC 15 2015 1140	DL Floyd/CHPRC			DEC 15 2015 1140	S = Soil SE = Sediment SO = Solid T = Tissue SL = Sludge W = Water O = Oil A = Air
DL Floyd/CHPRC			DEC 15 2015 1150	DL Floyd/CHPRC			DEC 15 2015 1150	DS = Drum Solids DL = Drum Liquids T = Tissue WT = Wipe L = Liquid V = Vegetation X = Other

Relinquished By	Date/Time	Received By	Date/Time
DL Floyd/CHPRC	DEC 15 2015 1140	DL Floyd/CHPRC	DEC 15 2015 1140
DL Floyd/CHPRC	DEC 15 2015 1150	DL Floyd/CHPRC	DEC 15 2015 1150

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

**CH2M Hill Plateau Remediation Company**

**CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST**

C.O.C. #  
**X15-070-047**  
Page 1 of 1

Collector	D.L. Foyd/CHRC	Contact/Requester	WHITLEY, KM	Telephone No.	373-4929
SAF No.	X15-070	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300205
Project Title	300 Area Uranium Segregation Post Inj	Logbook No.	HNF-N-506 <u>80/61</u>	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
<b>POSSIBLE SAMPLE HAZARDS/REMARKS</b>			<b>SPECIAL INSTRUCTIONS</b>		
*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
B33948	N	W	DEC 15 2015	7:04	1x500-ml P	300.0_ANIONS_IC: COMMON; 300.0_ANIONS_IC: GW 01	48 Hours	Cool <=6C

# 1844  
WCC0112

Reinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time	Matrix *
Foyd/CHRC			DEC 15 2015 1140	RA STEPHEN			DEC 15 2015 1140	S = Soil SE = Sediment SO = Solid SL = Sludge W = Water O = Oil A = Air
Reinquished By			12/15/15 1150	RA STEPHEN			12/15/15 1150	DS = Drum Solids DL = Drum Liquids T = Tissue WT = 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

December 29, 2015

**CH2M Hill Plateau Remediation Company**

**CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST**

C.O.C.#

**X15-070-052**

Page 1 of 1

Collector	D.L. Floyd/CH2MHC	Contact/Requester	WHITLEY, KM	Telephone No.	373-4929		
SAF No.	X15-070	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300205		
Project Title	300 Area Uranium Sequestration Post Inj	Logbook No.	HNF-N-50680/61	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		
<b>POSSIBLE SAMPLE HAZARDS/REMARKS</b>			<b>SPECIAL INSTRUCTIONS</b>				
*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
B339K2	N	DEC 15 2015	1120	1X500-mL P	300.0_ANIONS_IC: COMMON; 300.0_ANIONS_IC: GW 01	48 Hours	Cool <=6C

*Handwritten:* #1844  
W3C0N12

December 2, 2015

Reinquished By	Print	Signature	Date/Time	Received By	Print	Signature	Date/Time	Matrix *
Reinquished By	DL Floyd/CH2MHC	<i>[Signature]</i>	DEC 15 2015 1140	Received By	KA Sheraed	<i>[Signature]</i>	DEC 15 2015 1140	S = Soil SE = Sediment SO = Solid SL = Sludge W = Water O = Oil A = Air
Reinquished By	KA Sheraed	<i>[Signature]</i>	DEC 15 2015 1150	Received By	Bob Stoltz	<i>[Signature]</i>	DEC 15 2015 1150	DS = Drum Solids DL = Drum Liquids T = Tissue WI = Wipe L = Liquid V = Vegetation X = Other
Reinquished By				Received By				

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

## Detection Summary

Client: CH2M Hill Plateau Remediation Company  
 Project/Site: X15-070

TestAmerica Job ID: 300-1848-1  
 SDG: WC0712

## Client Sample ID: B339J4

## Lab Sample ID: 300-1848-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	21	D	0.40	0.20	mg/L	2		300.0	Total/NA
Nitrate as N	5.6	D	0.056	0.028	mg/L	2		300.0	Total/NA
Fluoride	0.33	D	0.10	0.050	mg/L	2		300.0	Total/NA
Orthophosphate as P	19	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: B339J8

## Lab Sample ID: 300-1848-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	25	D	2.0	1.0	mg/L	10		300.0	Total/NA
Nitrate as N	7.3	D	0.28	0.14	mg/L	10		300.0	Total/NA
Fluoride	1.1	D	0.50	0.25	mg/L	10		300.0	Total/NA
Orthophosphate as P	120	D	4.1	2.1	mg/L	50		300.0	Total/NA
Sulfate	63	D	2.5	1.3	mg/L	10		300.0	Total/NA

## Client Sample ID: B339K2

## Lab Sample ID: 300-1848-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	20	D	0.40	0.20	mg/L	2		300.0	Total/NA
Nitrate as N	5.8	D	0.056	0.028	mg/L	2		300.0	Total/NA
Fluoride	0.34	D	0.10	0.050	mg/L	2		300.0	Total/NA
Sulfate	60	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: X15-070

TestAmerica Job ID: 300-1848-1  
SDG: WC0712

**Client Sample ID: B339J4**

Date Collected: 12/15/15 09:45

Date Received: 12/15/15 11:50

**Lab Sample ID: 300-1848-1**

Matrix: Water

**Method: 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	21	D	0.40	0.20	mg/L			12/15/15 15:55	2
Nitrate as N	5.6	D	0.056	0.028	mg/L			12/15/15 15:55	2
Fluoride	0.33	D	0.10	0.050	mg/L			12/15/15 15:55	2
Nitrite as N	0.038	U	0.076	0.038	mg/L			12/15/15 15:55	2
Orthophosphate as P	19	D	0.16	0.082	mg/L			12/15/15 15:55	2
Sulfate	59	D	0.50	0.25	mg/L			12/15/15 15:55	2

**Client Sample ID: B339J8**

Date Collected: 12/15/15 10:14

Date Received: 12/15/15 11:50

**Lab Sample ID: 300-1848-2**

Matrix: Water

**Method: 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	25	D	2.0	1.0	mg/L			12/15/15 21:16	10
Nitrate as N	7.3	D	0.28	0.14	mg/L			12/15/15 21:16	10
Fluoride	1.1	D	0.50	0.25	mg/L			12/15/15 21:16	10
Nitrite as N	0.19	U	0.38	0.19	mg/L			12/15/15 21:16	10
Orthophosphate as P	120	D	4.1	2.1	mg/L			12/15/15 16:10	50
Sulfate	63	D	2.5	1.3	mg/L			12/15/15 21:16	10

**Client Sample ID: B339K2**

Date Collected: 12/15/15 11:20

Date Received: 12/15/15 11:50

**Lab Sample ID: 300-1848-3**

Matrix: Water

**Method: 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	20	D	0.40	0.20	mg/L			12/15/15 15:10	2
Nitrate as N	5.8	D	0.056	0.028	mg/L			12/15/15 15:10	2
Fluoride	0.34	D	0.10	0.050	mg/L			12/15/15 15:10	2
Nitrite as N	0.038	U	0.076	0.038	mg/L			12/15/15 15:10	2
Orthophosphate as P	0.082	U	0.16	0.082	mg/L			12/15/15 15:10	2
Sulfate	60	D	0.50	0.25	mg/L			12/15/15 15:10	2

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 300-2375/5  
Matrix: Water  
Analysis Batch: 2375

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			12/15/15 14:40	1
Nitrite as N	0.019	U	0.038	0.019	mg/L			12/15/15 14:40	1
Orthophosphate as P	0.041	U	0.082	0.041	mg/L			12/15/15 14:40	1

Lab Sample ID: LCS 300-2375/6  
Matrix: Water  
Analysis Batch: 2375

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	2.43		mg/L		108	80 - 120
Nitrite as N	3.04	3.28		mg/L		108	80 - 120
Orthophosphate as P	6.53	6.96		mg/L		107	80 - 120

Lab Sample ID: 300-1848-3 MS  
Matrix: Water  
Analysis Batch: 2375

Client Sample ID: B339K2  
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	5.8	D	0.452	6.25	D	mg/L		97	75 - 125
Nitrite as N	0.038	U	0.609	0.578	D	mg/L		95	75 - 125
Orthophosphate as P	0.082	U	1.31	1.20	D	mg/L		92	75 - 125

Lab Sample ID: 300-1848-3 DU  
Matrix: Water  
Analysis Batch: 2375

Client Sample ID: B339K2  
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Nitrate as N	5.8	D	5.77	D	mg/L		0.7	20
Nitrite as N	0.038	U	0.038	U	mg/L		NC	20
Orthophosphate as P	0.082	U	0.082	U	mg/L		NC	20

Lab Sample ID: MB 300-2376/5  
Matrix: Water  
Analysis Batch: 2376

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			12/15/15 14:40	1
Fluoride	0.025	U	0.050	0.025	mg/L			12/15/15 14:40	1
Sulfate	0.13	U	0.25	0.13	mg/L			12/15/15 14:40	1

Lab Sample ID: LCS 300-2376/6  
Matrix: Water  
Analysis Batch: 2376

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	17.0		mg/L		106	80 - 120
Fluoride	4.00	4.24		mg/L		106	80 - 120
Sulfate	20.0	21.3		mg/L		107	80 - 120

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 300-1848-3 MS  
 Matrix: Water  
 Analysis Batch: 2376

Client Sample ID: B339K2  
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	20	D	3.20	22.8	D	mg/L		100	75 - 125
Fluoride	0.34	D	0.800	1.17	D	mg/L		104	75 - 125
Sulfate	60	D	4.00	63.6	D	mg/L		96	75 - 125

Lab Sample ID: 300-1848-3 DU  
 Matrix: Water  
 Analysis Batch: 2376

Client Sample ID: B339K2  
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chloride	20	D	19.5	D	mg/L		0.7	20
Fluoride	0.34	D	0.334	D	mg/L		0.9	20
Sulfate	60	D	59.3	D	mg/L		0.7	20



Client: CH2M Hill Plateau Remediation Company  
 Project/Site: X15-070

TestAmerica Job ID: 300-1848-1  
 SDG: WC0712

## HPLC/IC

### Analysis Batch: 2375

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
300-1848-1	B339J4	Total/NA	Water	300.0	
300-1848-2	B339J8	Total/NA	Water	300.0	
300-1848-2	B339J8	Total/NA	Water	300.0	
300-1848-3	B339K2	Total/NA	Water	300.0	
300-1848-3 DU	B339K2	Total/NA	Water	300.0	
300-1848-3 MS	B339K2	Total/NA	Water	300.0	
LCS 300-2375/6	Lab Control Sample	Total/NA	Water	300.0	
MB 300-2375/5	Method Blank	Total/NA	Water	300.0	

### Analysis Batch: 2376

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
300-1848-1	B339J4	Total/NA	Water	300.0	
300-1848-2	B339J8	Total/NA	Water	300.0	
300-1848-3	B339K2	Total/NA	Water	300.0	
300-1848-3 DU	B339K2	Total/NA	Water	300.0	
300-1848-3 MS	B339K2	Total/NA	Water	300.0	
LCS 300-2376/6	Lab Control Sample	Total/NA	Water	300.0	
MB 300-2376/5	Method Blank	Total/NA	Water	300.0	

**Client Sample ID: B339J4**

Date Collected: 12/15/15 09:45

Date Received: 12/15/15 11:50

**Lab Sample ID: 300-1848-1**

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		2	10 mL		2375	12/15/15 15:55	CPM	TAL RCH
Total/NA	Analysis	300.0		2	10 mL		2376	12/15/15 15:55	CPM	TAL RCH

**Client Sample ID: B339J8**

Date Collected: 12/15/15 10:14

Date Received: 12/15/15 11:50

**Lab Sample ID: 300-1848-2**

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	10 mL		2375	12/15/15 16:10	CPM	TAL RCH
Total/NA	Analysis	300.0		10	10 mL		2375	12/15/15 21:16	CPM	TAL RCH
Total/NA	Analysis	300.0		10	10 mL		2376	12/15/15 21:16	CPM	TAL RCH

**Client Sample ID: B339K2**

Date Collected: 12/15/15 11:20

Date Received: 12/15/15 11:50

**Lab Sample ID: 300-1848-3**

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	10 mL		2375	12/15/15 15:10	CPM	TAL RCH
Total/NA	Analysis	300.0		2	10 mL		2376	12/15/15 15:10	CPM	TAL RCH

**Client Sample ID: B339K2**

Date Collected: 12/15/15 11:20

Date Received: 12/15/15 11:50

**Lab Sample ID: 300-1848-3 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	10 mL		2375	12/15/15 15:40	CPM	TAL RCH
Total/NA	Analysis	300.0		2	10 mL		2376	12/15/15 15:40	CPM	TAL RCH

**Client Sample ID: Lab Control Sample**

Date Collected: N/A

Date Received: N/A

**Lab Sample ID: LCS 300-2375/6**

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		1	10 mL		2375	12/15/15 14:55	CPM	TAL RCH

**Client Sample ID: Lab Control Sample**

Date Collected: N/A

Date Received: N/A

**Lab Sample ID: LCS 300-2376/6**

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		1	10 mL		2376	12/15/15 14:55	CPM	TAL RCH

Client: CH2M Hill Plateau Remediation Company  
 Project/Site: X15-070

TestAmerica Job ID: 300-1848-1  
 SDG: WC0712

**Client Sample ID: Method Blank**

**Lab Sample ID: MB 300-2375/5**

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	10 mL		2375	12/15/15 14:40	CPM	TAL RCH

**Client Sample ID: Method Blank**

**Lab Sample ID: MB 300-2376/5**

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	10 mL		2376	12/15/15 14:40	CPM	TAL RCH

**Client Sample ID: B339K2**

**Lab Sample ID: 300-1848-3 MS**

Date Collected: 12/15/15 11:20

Matrix: Water

Date Received: 12/15/15 11:50

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	10 mL		2375	12/15/15 15:25	CPM	TAL RCH
Total/NA	Analysis	300.0		2	10 mL		2376	12/15/15 15:25	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: X15-070

TestAmerica Job ID: 300-1848-1  
SDG: WC0712

---

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: X15-070

TestAmerica Job ID: 300-1848-1  
SDG: WC0712

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
300-1848-1	B339J4	Water	12/15/15 09:45	12/15/15 11:50
300-1848-2	B339J8	Water	12/15/15 10:14	12/15/15 11:50
300-1848-3	B339K2	Water	12/15/15 11:20	12/15/15 11:50

- 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: 300-1848-1

SDG Number: WC0712

**Login Number: 1848**

**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	

