

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: 300-1700-1
TestAmerica Sample Delivery Group: WC0643
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:
12/7/2015 3:28:48 PM
Steven Campbell, Quality Assurance Assistant
steven.campbell@testamericainc.com

Designee for
Whitney Ritari, Project Manager I
(509)375-3131 ext164
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

- 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	13
Lab Chronicle	14
Method Summary	17
Sample Summary	18
Receipt Checklists	19

Qualifiers**HPLC/IC**

Qualifier	Qualifier Description
U	Analyzed for but not detected.
D	The reported value is from a dilution.

General Chemistry

Qualifier	Qualifier Description
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)

Job ID: 300-1700-1

Laboratory: TestAmerica Richland

Narrative

**Job Narrative
300-1700-1**

Comments

No additional comments.

Receipt

The samples were received on 11/30/2015 2:45 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 5.5° C.

HPLC/IC

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

General Chemistry

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

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

Collector	D.J. Weehel/CHPRC	Contract/Requester	Karen Waters-Husted	Telephone No.	509-376-4650
SAP No.	S16-011	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071
Project Title	SURY, NOVEMBER 2016	Logbook No.	HNF-N-506 <u>82/13</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	SURY	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
B33585	Y	W	11-30-15	1238	1x60-mL aG	7196_CR6: COMMON	24 Hours	Cool <=6C
B33583	N	W	11-30-15	1238	1x60-mL aG	7196_CR6: COMMON	24 Hours	Cool <=6C



300-1700 COC

#1700
w0643

Relinquished By	D.J. Weehel/CHPRC	Print	<i>[Signature]</i>	Sign	M.A. White/CHPRC	Print	<i>[Signature]</i>	Sign	J. Bock, TARL
Date/Time	NOV 30 2015 1325	Date/Time	NOV 30 2015 1325	Date/Time	NOV 30 2015 1445	Date/Time	NOV 30 2015 1445	Date/Time	NOV 30 2015 1445
Relinquished By	M.A. White/CHPRC	Received By	<i>[Signature]</i>						
Date/Time	NOV 30 2015 1445	Date/Time	NOV 30 2015 1445	Date/Time	NOV 30 2015 1445	Date/Time	NOV 30 2015 1445	Date/Time	NOV 30 2015 1445

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

December 07 2015

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

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # S16-011-261
Page 1 of 1

Collector	J.C. Fulton/CHPRC	Contract/Requester	Karen Waters-Husted	Telephone No.	509-376-4650
SAF No.	S16-011	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071
Project Title	SURV, NOVEMBER 2016	Logbook No.	HNF-N-506 77 / 95	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	SURV	Priority:	30 Days PRIORITY	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		
Sample No.	B336F2	Filter	N	Date	11/30/15
		*	W	Time	0954
		No./Type Container	1x500-mL P	Sample Analysis	300.0_ANIONS_IC: COMMON
		Holding Time	48 Hours	Preservative	Cool <=6C

#1700
w/c643

December 07 2015

Reinquished By	J.C. Fulton/CHPRC	Print	Sign	Date/Time	NOV 30 2015 1052D
Reinquished By	M.A. White	Print	Sign	Date/Time	NOV 30 2015 1445
Reinquished By	CHPRC	Print	Sign	Date/Time	NOV 30 2015 1445
Reinquished By		Print	Sign	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. # S16-011-355
Page 1 of 1

Collector	D.J. Woehle/CHPRC	Contact/Requestor	Karen Waters-Husted	Telephone No.	509-376-4650
SAF No.	S16-011	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071
Project Title	SURV, NOVEMBER 2016	Logbook No.	HNF-N-506 <u>82-13</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	SURV	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
B33BF7	N	W	11-30-15	1235	1x500-ml P	300.0_ANIONS_IC: COMMON	48 Hours	Cool <=6C

#1700
WCO643

Relinquished By	D.J. Woehle/CHPRC	Print	Sign	Date/Time	NOV 30 2015 1325	Received By	M.A. White/CHPRC	Print	Sign	Date/Time	NOV 30 2015 1325
Relinquished By	M.A. White/CHPRC	Print	Sign	Date/Time	NOV 30 2015 1445	Received By	J. Book, TARL	Print	Sign	Date/Time	NOV 30 2015 1445
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
WL	= 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
--------------------------	--	-------------	-----------

December 07, 2015

Detection Summary

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

TestAmerica Job ID: 300-1700-1
 SDG: WC0643

Client Sample ID: B33585

Lab Sample ID: 300-1700-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.040		0.0040	0.0015	mg/L	1		7196A	Total/NA

Client Sample ID: B33583

Lab Sample ID: 300-1700-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.049		0.0040	0.0015	mg/L	1		7196A	Total/NA

Client Sample ID: B336F2

Lab Sample ID: 300-1700-3

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	20	D	0.28	0.14	mg/L	10		300.0	Total/NA
Fluoride	1.0	D	0.10	0.050	mg/L	2		300.0	Total/NA
Sulfate	51	D	0.50	0.25	mg/L	2		300.0	Total/NA

Client Sample ID: B33BF7

Lab Sample ID: 300-1700-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	17	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	0.16	D	0.10	0.050	mg/L	2		300.0	Total/NA
Sulfate	190	D	2.5	1.3	mg/L	10		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Richland

Client Sample Results

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

TestAmerica Job ID: 300-1700-1
 SDG: WC0643

Client Sample ID: B33585
 Date Collected: 11/30/15 12:38
 Date Received: 11/30/15 14:45

Lab Sample ID: 300-1700-1
 Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.040		0.0040	0.0015	mg/L			11/30/15 18:45	1

Client Sample ID: B33583
 Date Collected: 11/30/15 12:38
 Date Received: 11/30/15 14:45

Lab Sample ID: 300-1700-2
 Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.049		0.0040	0.0015	mg/L			11/30/15 18:46	1

Client Sample ID: B336F2
 Date Collected: 11/30/15 09:54
 Date Received: 11/30/15 14:45

Lab Sample ID: 300-1700-3
 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			12/01/15 17:12	2
Nitrate as N	20	D	0.28	0.14	mg/L			12/01/15 19:12	10
Fluoride	1.0	D	0.10	0.050	mg/L			12/01/15 17:12	2
Nitrite as N	0.038	U	0.076	0.038	mg/L			12/01/15 17:12	2
Sulfate	51	D	0.50	0.25	mg/L			12/01/15 17:12	2

Client Sample ID: B33BF7
 Date Collected: 11/30/15 12:38
 Date Received: 11/30/15 14:45

Lab Sample ID: 300-1700-4
 Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	17	D	0.40	0.20	mg/L			12/01/15 17:57	2
Nitrate as N	5.9	D	0.056	0.028	mg/L			12/01/15 17:57	2
Fluoride	0.16	D	0.10	0.050	mg/L			12/01/15 17:57	2
Nitrite as N	0.038	U	0.076	0.038	mg/L			12/01/15 17:57	2
Sulfate	190	D	2.5	1.3	mg/L			12/01/15 19:58	10

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 300-2191/27
 Matrix: Water
 Analysis Batch: 2191

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			12/01/15 16:42	1
Nitrite as N	0.019	U	0.038	0.019	mg/L			12/01/15 16:42	1

Lab Sample ID: LCS 300-2191/28
 Matrix: Water
 Analysis Batch: 2191

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	3.21		mg/L		105	80 - 120

Lab Sample ID: 300-1700-3 MS
 Matrix: Water
 Analysis Batch: 2191

Client Sample ID: B336F2
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as N	0.038	U	0.609	0.545	D	mg/L		90	75 - 125

Lab Sample ID: 300-1700-3 MS
 Matrix: Water
 Analysis Batch: 2191

Client Sample ID: B336F2
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	20	D	2.26	22.7	D	mg/L		106	75 - 125

Lab Sample ID: 300-1700-3 DU
 Matrix: Water
 Analysis Batch: 2191

Client Sample ID: B336F2
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrite as N	0.038	U	0.038	U	mg/L		NC	20

Lab Sample ID: 300-1700-3 DU
 Matrix: Water
 Analysis Batch: 2191

Client Sample ID: B336F2
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrate as N	20	D	20.2	D	mg/L		0.9	20

Lab Sample ID: MB 300-2192/27
 Matrix: Water
 Analysis Batch: 2192

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			12/01/15 16:42	1
Fluoride	0.025	U	0.050	0.025	mg/L			12/01/15 16:42	1
Sulfate	0.13	U	0.25	0.13	mg/L			12/01/15 16:42	1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 300-2192/28
 Matrix: Water
 Analysis Batch: 2192

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		105	80 - 120

Lab Sample ID: 300-1700-3 MS
 Matrix: Water
 Analysis Batch: 2192

Client Sample ID: B336F2
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25	D	3.20	27.5	D	mg/L		83	75 - 125
Fluoride	1.0	D	0.800	1.82	D	mg/L		102	75 - 125
Sulfate	51	D	4.00	53.7	D	mg/L		76	75 - 125

Lab Sample ID: 300-1700-3 DU
 Matrix: Water
 Analysis Batch: 2192

Client Sample ID: B336F2
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chloride	25	D	24.5	D	mg/L		1	20
Fluoride	1.0	D	0.979	D	mg/L		2	20
Sulfate	51	D	50.0	D	mg/L		1	20

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 300-2186/3
 Matrix: Water
 Analysis Batch: 2186

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.0015	U	0.0040	0.0015	mg/L			11/30/15 18:32	1

Lab Sample ID: LCS 300-2186/4
 Matrix: Water
 Analysis Batch: 2186

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cr (VI)	0.250	0.259		mg/L		104	80 - 120

Lab Sample ID: 300-1698-A-1 MS
 Matrix: Water
 Analysis Batch: 2186

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cr (VI)	0.010		0.0500	0.0648		mg/L		109	85 - 115

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

TestAmerica Job ID: 300-1700-1
SDG: WC0643

Method: 7196A - Chromium, Hexavalent (Continued)

Lab Sample ID: 300-1698-A-1 DU
Matrix: Water
Analysis Batch: 2186

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Cr (VI)	0.010		0.0100		mg/L		2	20

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

HPLC/IC**Analysis Batch: 2191**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
300-1700-3	B336F2	Total/NA	Water	300.0	
300-1700-3	B336F2	Total/NA	Water	300.0	
300-1700-3 DU	B336F2	Total/NA	Water	300.0	
300-1700-3 DU	B336F2	Total/NA	Water	300.0	
300-1700-3 MS	B336F2	Total/NA	Water	300.0	
300-1700-3 MS	B336F2	Total/NA	Water	300.0	
300-1700-4	B33BF7	Total/NA	Water	300.0	
LCS 300-2191/28	Lab Control Sample	Total/NA	Water	300.0	
MB 300-2191/27	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 2192

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
300-1700-3	B336F2	Total/NA	Water	300.0	
300-1700-3 DU	B336F2	Total/NA	Water	300.0	
300-1700-3 MS	B336F2	Total/NA	Water	300.0	
300-1700-4	B33BF7	Total/NA	Water	300.0	
300-1700-4	B33BF7	Total/NA	Water	300.0	
LCS 300-2192/28	Lab Control Sample	Total/NA	Water	300.0	
MB 300-2192/27	Method Blank	Total/NA	Water	300.0	

General Chemistry**Analysis Batch: 2186**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
300-1698-A-1 DU	Duplicate	Total/NA	Water	7196A	
300-1698-A-1 MS	Matrix Spike	Total/NA	Water	7196A	
300-1700-1	B33585	Total/NA	Water	7196A	
300-1700-2	B33583	Total/NA	Water	7196A	
LCS 300-2186/4	Lab Control Sample	Total/NA	Water	7196A	
MB 300-2186/3	Method Blank	Total/NA	Water	7196A	

Client Sample ID: B33585

Date Collected: 11/30/15 12:38

Date Received: 11/30/15 14:45

Lab Sample ID: 300-1700-1

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	7196A		1			2186	11/30/15 18:45	AMC	TAL RCH

Client Sample ID: B33583

Date Collected: 11/30/15 12:38

Date Received: 11/30/15 14:45

Lab Sample ID: 300-1700-2

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	7196A		1			2186	11/30/15 18:46	AMC	TAL RCH

Client Sample ID: B336F2

Date Collected: 11/30/15 09:54

Date Received: 11/30/15 14:45

Lab Sample ID: 300-1700-3

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		2191	12/01/15 17:12	CPM	TAL RCH
Total/NA	Analysis	300.0		2	10 mL		2192	12/01/15 17:12	CPM	TAL RCH
Total/NA	Analysis	300.0		10	10 mL		2191	12/01/15 19:12	CPM	TAL RCH

Client Sample ID: B33BF7

Date Collected: 11/30/15 12:38

Date Received: 11/30/15 14:45

Lab Sample ID: 300-1700-4

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	10 mL		2191	12/01/15 17:57	CPM	TAL RCH
Total/NA	Analysis	300.0		2	10 mL		2192	12/01/15 17:57	CPM	TAL RCH
Total/NA	Analysis	300.0		10	10 mL		2192	12/01/15 19:58	CPM	TAL RCH

Client Sample ID: Duplicate

Date Collected: 11/30/15 12:12

Date Received: 11/30/15 14:45

Lab Sample ID: 300-1698-A-1 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	7196A		1			2186	11/30/15 18:36	AMC	TAL RCH

Client Sample ID: B336F2

Date Collected: 11/30/15 09:54

Date Received: 11/30/15 14:45

Lab Sample ID: 300-1700-3 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		2191	12/01/15 17:42	CPM	TAL RCH
Total/NA	Analysis	300.0		2	10 mL		2192	12/01/15 17:42	CPM	TAL RCH

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

TestAmerica Job ID: 300-1700-1
 SDG: WC0643

Client Sample ID: B336F2

Lab Sample ID: 300-1700-3 DU

Date Collected: 11/30/15 09:54

Matrix: Water

Date Received: 11/30/15 14:45

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		10	10 mL		2191	12/01/15 19:42	CPM	TAL RCH

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 300-2186/4

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	7196A		1			2186	11/30/15 18:32	AMC	TAL RCH

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 300-2191/28

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		2191	12/01/15 16:57	CPM	TAL RCH

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 300-2192/28

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		2192	12/01/15 16:57	CPM	TAL RCH

Client Sample ID: Method Blank

Lab Sample ID: MB 300-2186/3

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	7196A		1			2186	11/30/15 18:32	AMC	TAL RCH

Client Sample ID: Method Blank

Lab Sample ID: MB 300-2191/27

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		2191	12/01/15 16:42	CPM	TAL RCH

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

TestAmerica Job ID: 300-1700-1
 SDG: WC0643

Client Sample ID: Method Blank

Lab Sample ID: MB 300-2192/27

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		2192	12/01/15 16:42	CPM	TAL RCH

Client Sample ID: Matrix Spike

Lab Sample ID: 300-1698-A-1 MS

Date Collected: 11/30/15 12:12

Matrix: Water

Date Received: 11/30/15 14:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7196A		1		3.0 mL	2186	11/30/15 18:33	AMC	TAL RCH

Client Sample ID: B336F2

Lab Sample ID: 300-1700-3 MS

Date Collected: 11/30/15 09:54

Matrix: Water

Date Received: 11/30/15 14:45

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		2191	12/01/15 17:27	CPM	TAL RCH
Total/NA	Analysis	300.0		2	10 mL		2192	12/01/15 17:27	CPM	TAL RCH
Total/NA	Analysis	300.0		10	10 mL		2191	12/01/15 19:27	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: 300-1700-1
SDG: WC0643

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	MCAWW	TAL RCH
7196A	Chromium, Hexavalent	SW846	TAL RCH

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

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



December 07, 2015

Sample Summary

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

TestAmerica Job ID: 300-1700-1
SDG: WC0643

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
300-1700-1	B33585	Water	11/30/15 12:38	11/30/15 14:45
300-1700-2	B33583	Water	11/30/15 12:38	11/30/15 14:45
300-1700-3	B336F2	Water	11/30/15 09:54	11/30/15 14:45
300-1700-4	B33BF7	Water	11/30/15 12:38	11/30/15 14:45

- 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: 300-1700-1

SDG Number: WC0643

Login Number: 1700

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.	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.	N/A	
Residual Chlorine Checked.	N/A	

