

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: 300-1699-1
TestAmerica Sample Delivery Group: WC0642
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 3:26:57 PM
Steven Campbell, Quality Assurance Assistant
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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

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TotalAccess

Have a Question?



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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: 300-1699-1

Laboratory: TestAmerica Richland

Narrative

**Job Narrative
300-1699-1**

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.



CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #
W16-011-133
Page 1 of 1

Collector	J.C. Fulton/CHPRC	Contact/Requester	Karen Walters-Husted	Telephone No.	509-376-4650
SAF No.	W16-011	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071
Project Title	RCRA, NOVEMBER 2015	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	RCRA	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		
Sample No.	Filter	Date	Time	No/Type Container	Sample Analysis
B332K4	N	W	11/30/15	0954	1x60-mL aG
					7196_CR6: COMMON
					Holding Time
					24 Hours
					Preservative
					Cool <=6C

300-1699 COC



#1699

WCO642

December 07 2015

Relinquished By	J.C. Fulton/CHPRC	Print	Sign	Date/Time	NOV 30 2015 1050	Received By	M.A. White/CHPRC	Print	Sign	Date/Time	NOV 30 2015 1050
Relinquished By	M.A. White/CHPRC	Print	Sign	Date/Time	NOV 30 2015 1445	Received By	J. Back, TARL	Print	Sign	Date/Time	NOV 30 2015 1445
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			

- 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

CH2MHill Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #

W16-011-135

Page 1 of 1

Collector	J.C. Fulton/CHPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650
SAF No.	W16-011	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071
Project Title	RCRA, NOVEMBER 2015	Logbook No.	HNF-N-506 <u>77/95</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	RCRA	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
B332K8	N	W	11/30/15	0850	1x60-mL aG
			Sample Analysis		
			Holding Time		
			Preservative		
			Cool <=6C		

#1689
WCO642

December 07 2015

Relinquished By	J.C. Fulton/CHPRC	Print	Sign	Date/Time	NOV 30 2015 1050	Received By	M.A. White	Print	Sign	Date/Time	NOV 30 2015 1050	Matrix *
Relinquished By	M.A. White	CHPRC	MAW	Date/Time	NOV 30 2015 1445	Received By	J. Bock, TARL	CHPRC	JB	Date/Time	NOV 30 2015 1445	S = Soil
Relinquished By				Date/Time		Received By				Date/Time		SE = Sediment
Relinquished By				Date/Time		Received By				Date/Time		SO = Solid
Relinquished By				Date/Time		Received By				Date/Time		SL = Sludge
Relinquished By				Date/Time		Received By				Date/Time		W = Water
Relinquished By				Date/Time		Received By				Date/Time		O = Oil
Relinquished By				Date/Time		Received By				Date/Time		A = Air
Relinquished By				Date/Time		Received By				Date/Time		DS = Drum Solids
Relinquished By				Date/Time		Received By				Date/Time		DL = Drum Liquids
Relinquished By				Date/Time		Received By				Date/Time		T = Tissue
Relinquished By				Date/Time		Received By				Date/Time		WT = Wipe
Relinquished By				Date/Time		Received By				Date/Time		L = Liquid
Relinquished By				Date/Time		Received By				Date/Time		V = Vegetation
Relinquished By				Date/Time		Received By				Date/Time		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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CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #
W16-011-134
Page 1 of 1

Collector	J.C. Fulkerson/CHPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650
SAF No.	W16-011	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071
Project Title	RCRA, NOVEMBER 2015	Logbook No.	HNF-N-506-77/95	Ice Chest No.	N/A
Shipped To (Lab)	TestAmerica Incorporated, Richmond	Method of Shipment	GOVERNMENT VEHICLE	Bill of Lading/Air Bill No.	N/A
Protocol	RCRA	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		
Sample No.	Filter	Date	No/Type Container	Sample Analysis	Holding Time
B332K6	N	11/30/15	1x500-mL P	300.0_ANIONS_IC: COMMON	48 Hours
		0950			
					Preservative
					Cool <=6C
Total Activity Exemption: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>					

#11699

W160642

December 07 2015

Reinquished By	J.C. Fulkerson/CHPRC	Print	Sign	Date/Time	NOV 30 2015 1050	Received By	M.A. White	Print	Sign	Date/Time	NOV 30 2015 1050
Reinquished By	M.A. White	Print	Sign	Date/Time	NOV 30 2015 1445	Received By	J. Bock, TARL	Print	Sign	Date/Time	NOV 30 2015 1445
Reinquished By		Print	Sign	Date/Time		Received By		Print	Sign	Date/Time	
Reinquished By		Print	Sign	Date/Time		Received 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			

- 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

Detection Summary

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

TestAmerica Job ID: 300-1699-1
 SDG: WC0642

Client Sample ID: B332K4

Lab Sample ID: 300-1699-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.0064		0.0040	0.0015	mg/L	1		7196A	Total/NA

Client Sample ID: B332K8

Lab Sample ID: 300-1699-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.011		0.0040	0.0015	mg/L	1		7196A	Total/NA

Client Sample ID: B332K6

Lab Sample ID: 300-1699-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	31	D	0.40	0.20	mg/L	2		300.0	Total/NA
Nitrate as N	31	D	0.28	0.14	mg/L	10		300.0	Total/NA
Fluoride	1.2	D	0.10	0.050	mg/L	2		300.0	Total/NA
Sulfate	55	D	0.50	0.25	mg/L	2		300.0	Total/NA

This Detection Summary does not include radiochemical test results.



Client Sample Results

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

TestAmerica Job ID: 300-1699-1
 SDG: WC0642

Client Sample ID: B332K4
Date Collected: 11/30/15 09:54
Date Received: 11/30/15 14:45

Lab Sample ID: 300-1699-1
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.0064		0.0040	0.0015	mg/L			11/30/15 18:42	1

Client Sample ID: B332K8
Date Collected: 11/30/15 08:50
Date Received: 11/30/15 14:45

Lab Sample ID: 300-1699-2
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.011		0.0040	0.0015	mg/L			11/30/15 18:45	1

Client Sample ID: B332K6
Date Collected: 11/30/15 08:50
Date Received: 11/30/15 14:45

Lab Sample ID: 300-1699-3
Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	31	D	0.40	0.20	mg/L			12/01/15 18:12	2
Nitrate as N	31	D	0.28	0.14	mg/L			12/01/15 20:13	10
Fluoride	1.2	D	0.10	0.050	mg/L			12/01/15 18:12	2
Nitrite as N	0.038	U	0.076	0.038	mg/L			12/01/15 18:12	2
Sulfate	55	D	0.50	0.25	mg/L			12/01/15 18:12	2

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-A-3 MS
 Matrix: Water
 Analysis Batch: 2191

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
Nitrite as N	0.038	U	0.609	0.545	D	mg/L		90	75 - 125

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

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
Nitrate as N	20	D	2.26	22.7	D	mg/L		106	75 - 125

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

Client Sample ID: Duplicate
 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-A-3 DU
 Matrix: Water
 Analysis Batch: 2191

Client Sample ID: Duplicate
 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-A-3 MS
 Matrix: Water
 Analysis Batch: 2192

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
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-A-3 DU
 Matrix: Water
 Analysis Batch: 2192

Client Sample ID: Duplicate
 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: 300-1699-1
SDG: WC0642

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

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

TestAmerica Job ID: 300-1699-1
 SDG: WC0642

HPLC/IC

Analysis Batch: 2191

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
300-1699-3	B332K6	Total/NA	Water	300.0	
300-1699-3	B332K6	Total/NA	Water	300.0	
300-1700-A-3 DU	Duplicate	Total/NA	Water	300.0	
300-1700-A-3 DU	Duplicate	Total/NA	Water	300.0	
300-1700-A-3 MS	Matrix Spike	Total/NA	Water	300.0	
300-1700-A-3 MS	Matrix Spike	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
300-1699-3	B332K6	Total/NA	Water	300.0	
300-1700-A-3 DU	Duplicate	Total/NA	Water	300.0	
300-1700-A-3 MS	Matrix Spike	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	
300-1699-1	B332K4	Total/NA	Water	7196A	
300-1699-2	B332K8	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: B332K4

Date Collected: 11/30/15 09:54

Date Received: 11/30/15 14:45

Lab Sample ID: 300-1699-1

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 18:42	AMC	TAL RCH

Client Sample ID: B332K8

Date Collected: 11/30/15 08:50

Date Received: 11/30/15 14:45

Lab Sample ID: 300-1699-2

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 18:45	AMC	TAL RCH

Client Sample ID: B332K6

Date Collected: 11/30/15 08:50

Date Received: 11/30/15 14:45

Lab Sample ID: 300-1699-3

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 18:12	CPM	TAL RCH
Total/NA	Analysis	300.0		2	10 mL		2192	12/01/15 18:12	CPM	TAL RCH
Total/NA	Analysis	300.0		10	10 mL		2191	12/01/15 20:13	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: Duplicate

Date Collected: 11/30/15 09:54

Date Received: 11/30/15 14:45

Lab Sample ID: 300-1700-A-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
Total/NA	Analysis	300.0		10	10 mL		2191	12/01/15 19:42	CPM	TAL RCH

Client Sample ID: Lab Control Sample

Date Collected: N/A

Date Received: N/A

Lab Sample ID: LCS 300-2186/4

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

TestAmerica Job ID: 300-1699-1
 SDG: WC0642

Client Sample ID: Matrix Spike

Lab Sample ID: 300-1700-A-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: 300-1699-1
SDG: WC0642

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



Sample Summary

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

TestAmerica Job ID: 300-1699-1
SDG: WC0642

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
300-1699-1	B332K4	Water	11/30/15 09:54	11/30/15 14:45
300-1699-2	B332K8	Water	11/30/15 08:50	11/30/15 14:45
300-1699-3	B332K6	Water	11/30/15 08:50	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: 300-1699-1
SDG Number: WC0642

Login Number: 1699
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	

