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: 300-1713-1
TestAmerica Sample Delivery Group: WC0646
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 4:10:53 PM
Steven Campbell, Quality Assurance Assistant
steven.campbell@testamericainc.com

Designee for

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

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.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 desingee as verified by the attached signature.

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

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Definitions/Glossary

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

TestAmerica Job ID: 300-1713-1
SDG: WC0646

Qualifiers

HPLC/IC

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

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.
¤	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)

Case Narrative

Job ID: 300-1713-1

Laboratory: TestAmerica Richland

Narrative

Job Narrative
300-1713-1

Comments
No additional comments.

Receipt
The samples were received on 12/1/2015 2:15 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 5.9º 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.

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F14-003-778	PAGE 1 OF 1
COLLECTOR D.L. Floyd/CHPRC	COMPANY CONTACT TODAK, D	TELEPHONE NO. 376-6427	PROJECT COORDINATOR TODAK, D	PRICE CODE 7H AIR QUALITY ☐	DATA TURNAROUND 30 Days / 30 Days
SAMPLING LOCATION C9439, I-011	PROJECT DESIGNATION FY2014 200-ZP-1 Remedial Action Wells Sampling and Analysis - Water		SAF NO. F14-003		
ICE CHEST NO.	FIELD LOGBOOK NO. HNF-N-645 2 - 94	ACTUAL SAMPLE DEPTH 413.25	COA 302938	METHOD OF SHIPMENT GOVERNMENT VEHICLE	ORIGINAL
SHIPPED TO TestAmerica Incorporated, Richland	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
*Contains Radioactive Material at concentrations that are not be regulated for transportation per 49 CFR/IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1.

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool <=6C
HOLDING TIME	24 Hours
TYPE OF CONTAINER	aG
NO. OF CONTAINER(S)	1
VOLUME	60mL
SAMPLE ANALYSIS	7196_CR6: COMMON;

#1713
WC0646
Due 12-16-15

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B33BM6	WATER	DEC 0 1 2015	1130	✓

300-1713 COC

CHAIN OF POSSESSION		SIGN/ PRINT NAMES		SPECIAL INSTRUCTIONS
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	TRVL-15-080 The laboratory is to report all TICs for Method 8260.
D.L. Floyd/CHPRC	DEC 0 1 2015 1200	F.M. Hall/CHPRC	DEC 0 1 2015 1200	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
F.M. Hall/CHPRC	12-1-15 1415 F.M. Hall/CHPRC	J. Bock, TARL	DEC 0 1 2015 1415	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

PRINTED ON 10/7/2015 FSR ID = FSR7748 TRVL NUM = TRVL-15-080 A-6003-618 (REV 2)

December 07 2015

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F14-003-779	PAGE 1 OF 1
COLLECTOR D.L. Floyd/CHPRC	COMPANY CONTACT TODAK, D	TELEPHONE NO. 376-6427	PROJECT COORDINATOR TODAK, D	PRICE CODE 1A AIR QUALITY ☐	DATA TURNAROUND 24 Hours / 15 Days
SAMPLING LOCATION C9439, I-011	PROJECT DESIGNATION FY2014 200-ZP-1 Remedial Action Wells Sampling and Analysis - Water		SAF NO. F14-003		
ICE CHEST NO.	FIELD LOGBOOK NO. HNF-N-645 2 - 94	ACTUAL SAMPLE DEPTH 413.75'	COA 302938	METHOD OF SHIPMENT ~~FEDERAL EXPRESS~~ GOVERNMENT VEHICLE kw 10/7/15	ORIGINAL
SHIPPED TO TestAmerica Incorporated, Richland	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

MATRIX*	POSSIBLE SAMPLE HAZARDS/ REMARKS		
A=Air DL=Drum Liquids DS=Drum Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Wipe X=Other	*Contains Radioactive Material at concentrations that are not be regulated for transportation per 49 CFR/IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1.	PRESERVATION	Cool <=6C
		HOLDING TIME	48 Hours
		TYPE OF CONTAINER	P
		NO. OF CONTAINER(S)	1
		VOLUME	500mL
	SPECIAL HANDLING AND/OR STORAGE	SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B33BM7	WATER	DEC 0 1 2015	1130	

#1713
WC0646
Due 12-16-15

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
D.L. Floyd/CHPRC	DEC 0 1 2015 1200	F.M. Hall/CHPRC	DEC 0 1 2015 1200
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
F.M. Hall/CHPRC	DEC 0 1 2015 1415	J. Bock, TARL	DEC 0 1 2015 1415
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS

TRVL-15-080 The laboratory is to report all TICs for Method 8260. VOA analysis will be conducted with a 24 hour turnaround time on preliminary data. The VOA samples will be placed on a separate COC.
(1) 300.0_ANIONS_IC: COMMON {Nitrogen in Nitrate, Sulfate};
300.0_ANIONS_IC: COMMON (Add-on) {Phosphorus in phosphate};

LABORATORY SECTION	RECEIVED BY		TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD		DISPOSED BY	DATE/TIME

PRINTED ON 10/7/2015 FSR ID = FSR7748 TRVL NUM = TRVL-15-080 A-6003-618 (REV 2)

December 07 2015

Detection Summary

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

TestAmerica Job ID: 300-1713-1
SDG: WC0646

Client Sample ID: B33BM6 — Lab Sample ID: 300-1713-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.11		0.0040	0.0015	mg/L	1		7196A	Total/NA

Client Sample ID: B33BM7 — Lab Sample ID: 300-1713-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nitrate as N	170	D	1.4	0.70	mg/L	50		300.0	Total/NA
Sulfate	36	D	13	6.3	mg/L	50		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: 300-1713-1
SDG: WC0646

Client Sample ID: B33BM6

Lab Sample ID: 300-1713-1
Date Collected: 12/01/15 11:30
Matrix: Water
Date Received: 12/01/15 14:15

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.11		0.0040	0.0015	mg/L			12/01/15 16:48	1

Client Sample ID: B33BM7

Lab Sample ID: 300-1713-2
Date Collected: 12/01/15 11:30
Matrix: Water
Date Received: 12/01/15 14:15

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	170	D	1.4	0.70	mg/L			12/02/15 04:50	50
Orthophosphate as P	2.1	U	4.1	2.1	mg/L			12/02/15 04:50	50
Sulfate	36	D	13	6.3	mg/L			12/02/15 04:50	50

QC Sample Results

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

TestAmerica Job ID: 300-1713-1
SDG: WC0646

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 300-2193/27 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 2193

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 17:49	1
Orthophosphate as P	0.041	U	0.082	0.041	mg/L			12/01/15 17:49	1

Lab Sample ID: LCS 300-2193/28 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 2193

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	2.26	2.38		mg/L		105	80 - 120
Orthophosphate as P	6.53	6.71		mg/L		103	80 - 120

Lab Sample ID: 300-1717-A-31 MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 2193

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	2.7	D	1.13	3.94	D	mg/L		108	75 - 125
Orthophosphate as P	0.21	U	3.26	2.97	D	mg/L		91	75 - 125

Lab Sample ID: 300-1717-A-31 DU — **Client Sample ID: Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 2193

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrate as N	2.7	D	2.75	D	mg/L		1	20
Orthophosphate as P	0.21	U	0.21	U	mg/L		NC	20

Lab Sample ID: MB 300-2194/27 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 2194

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	0.13	U	0.25	0.13	mg/L			12/01/15 17:49	1

Lab Sample ID: LCS 300-2194/28 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 2194

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	20.0	20.6		mg/L		103	80 - 120

Lab Sample ID: 300-1717-A-31 MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 2194

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	80	D	10.0	90.2	D	mg/L		101	75 - 125

QC Sample Results

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

TestAmerica Job ID: 300-1713-1
SDG: WC0646

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 300-1717-A-31 DU — **Client Sample ID: Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 2194

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Sulfate	80	D		80.9	D	mg/L				1	20

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 300-2208/3 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 2208

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.0015	U	0.0040	0.0015	mg/L			12/01/15 16:45	1

Lab Sample ID: LCS 300-2208/4 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 2208

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cr (VI)			0.250	0.256		mg/L		102	80 - 120		

Lab Sample ID: 300-1713-1 MS — **Client Sample ID: B33BM6**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 2208

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cr (VI)	0.11		0.0500	0.157		mg/L		97	85 - 115		

Lab Sample ID: 300-1713-1 DU — **Client Sample ID: B33BM6**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 2208

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Cr (VI)	0.11			0.109		mg/L				0	20

QC Association Summary

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

TestAmerica Job ID: 300-1713-1
SDG: WC0646

HPLC/IC

Analysis Batch: 2193

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
300-1713-2	B33BM7	Total/NA	Water	300.0	
300-1717-A-31 DU	Duplicate	Total/NA	Water	300.0	
300-1717-A-31 MS	Matrix Spike	Total/NA	Water	300.0	
LCS 300-2193/28	Lab Control Sample	Total/NA	Water	300.0	
MB 300-2193/27	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 2194

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
300-1713-2	B33BM7	Total/NA	Water	300.0	
300-1717-A-31 DU	Duplicate	Total/NA	Water	300.0	
300-1717-A-31 MS	Matrix Spike	Total/NA	Water	300.0	
LCS 300-2194/28	Lab Control Sample	Total/NA	Water	300.0	
MB 300-2194/27	Method Blank	Total/NA	Water	300.0	

General Chemistry

Analysis Batch: 2208

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
300-1713-1	B33BM6	Total/NA	Water	7196A	
300-1713-1 DU	B33BM6	Total/NA	Water	7196A	
300-1713-1 MS	B33BM6	Total/NA	Water	7196A	
LCS 300-2208/4	Lab Control Sample	Total/NA	Water	7196A	
MB 300-2208/3	Method Blank	Total/NA	Water	7196A	

Lab Chronicle

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

TestAmerica Job ID: 300-1713-1
SDG: WC0646

Client Sample ID: B33BM6 — Lab Sample ID: 300-1713-1

Date Collected: 12/01/15 11:30 — **Matrix: Water**
Date Received: 12/01/15 14:15

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			2208	12/01/15 16:48	AMC	TAL RCH

Client Sample ID: B33BM7 — Lab Sample ID: 300-1713-2

Date Collected: 12/01/15 11:30 — **Matrix: Water**
Date Received: 12/01/15 14:15

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		2193	12/02/15 04:50	CPM	TAL RCH
Total/NA	Analysis	300.0		50	10 mL		2194	12/02/15 04:50	CPM	TAL RCH

Client Sample ID: B33BM6 — Lab Sample ID: 300-1713-1 DU

Date Collected: 12/01/15 11:30 — **Matrix: Water**
Date Received: 12/01/15 14:15

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			2208	12/01/15 16:49	AMC	TAL RCH

Client Sample ID: Duplicate — Lab Sample ID: 300-1717-A-31 DU

Date Collected: 12/01/15 08:30 — **Matrix: Water**
Date Received: 12/01/15 14:15

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		5	10 mL		2193	12/02/15 03:50	CPM	TAL RCH
Total/NA	Analysis	300.0		5	10 mL		2194	12/02/15 03:50	CPM	TAL RCH

Client Sample ID: Lab Control Sample — Lab Sample ID: LCS 300-2193/28

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		2193	12/01/15 18:04	CPM	TAL RCH

Client Sample ID: Lab Control Sample — Lab Sample ID: LCS 300-2194/28

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		2194	12/01/15 18:04	CPM	TAL RCH

Lab Chronicle

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

TestAmerica Job ID: 300-1713-1
SDG: WC0646

Client Sample ID: Lab Control Sample — Lab Sample ID: LCS 300-2208/4

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			2208	12/01/15 16:45	AMC	TAL RCH

Client Sample ID: Method Blank — Lab Sample ID: MB 300-2193/27

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		2193	12/01/15 17:49	CPM	TAL RCH

Client Sample ID: Method Blank — Lab Sample ID: MB 300-2194/27

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		2194	12/01/15 17:49	CPM	TAL RCH

Client Sample ID: Method Blank — Lab Sample ID: MB 300-2208/3

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			2208	12/01/15 16:45	AMC	TAL RCH

Client Sample ID: B33BM6 — Lab Sample ID: 300-1713-1 MS

Date Collected: 12/01/15 11:30 — **Matrix: Water**
Date Received: 12/01/15 14:15

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	2208	12/01/15 16:46	AMC	TAL RCH

Client Sample ID: Matrix Spike — Lab Sample ID: 300-1717-A-31 MS

Date Collected: 12/01/15 08:30 — **Matrix: Water**
Date Received: 12/01/15 14:15

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		5	10 mL		2193	12/02/15 03:35	CPM	TAL RCH
Total/NA	Analysis	300.0		5	10 mL		2194	12/02/15 03:35	CPM	TAL RCH

Laboratory References:

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

Method Summary

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

TestAmerica Job ID: 300-1713-1
SDG: WC0646

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: 300-1713-1
SDG: WC0646

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
300-1713-1	B33BM6	Water	12/01/15 11:30	12/01/15 14:15
300-1713-2	B33BM7	Water	12/01/15 11:30	12/01/15 14:15

Login Sample Receipt Checklist

Client: CH2M Hill Plateau Remediation Company

Job Number: 300-1713-1
SDG Number: WC0646

Login Number: 1713
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	