

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: 300-6470-1

TestAmerica Sample Delivery Group: WC2548

Client Project/Site: S18-011

For:

CH2M Hill Plateau Remediation Company

825 Jadwin Avenue

Richland, Washington 99352

Attn: CPP Sample Management



Authorized for release by:

11/30/2017 6:35:42 PM

Ashley Worthy, Project Manager I

(509)375-3131

ashley.worthy@testamericainc.com

LINKS

Review your project
results through

TotalAccess

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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 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.



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Definitions/Glossary

Client: CH2M Hill Plateau Remediation Company
Project/Site: S18-011

TestAmerica Job ID: 300-6470-1
SDG: WC2548

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.
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	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
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

Client: CH2M Hill Plateau Remediation Company
Project/Site: S18-011

TestAmerica Job ID: 300-6470-1
SDG: WC2548

Job ID: 300-6470-1

Laboratory: TestAmerica Richland

Narrative

Job Narrative
300-6470-1

Comments

No additional comments.

Receipt

The samples were received on 11/28/2017 2:10 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.1° 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.

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CH2M Hill Plateau
Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C.#
S18-011-530
Page 1 of 1

Collector: Larry Rosane / ICHPRC Contact/Requester: Karen Waters-Husted Telephone No.: 509-376-4650

SAF No.: S18-011 Sampling Origin: Hanford Site Purchase Order/Charge Code: 300071

Project Title: SURV, NOVEMBER 2017 Logbook No.: HNF-N-506 98/15 Ice Chest No.: N/A

Shipped To (Lab): TestAmerica Incorporated, Rich 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/REMARK
** ** 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
SPECIAL INSTRUCTIONS
N/A

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B3F7L5	N	W	11-28-17	0833	1x60-mL aG	7196_CR6: COMMON	24 Hours	Cool <=6C
B3F5P2	Y	W	11-28-17	0833	1x60-mL aG	7196_CR6: COMMON	24 Hours	Cool <=6C

6470
WC 2548



300-6470 COC

Relinquished By: Larry Rosane / ICHPRC Signature: [Signature] Date/Time: NOV 28 2017 1100
Received By: Jeff Lucas / ICHPRC Signature: [Signature] Date/Time: NOV 28 2017 1100

Relinquished By: Walt Lewis / ICHPRC Signature: [Signature] Date/Time: NOV 28 2017 1410
Received By: B. Johnson Signature: [Signature] Date/Time: 11-28-17 1414

Relinquished By: [Signature] Signature: _____ Date/Time: _____
Received By: _____ Signature: _____ Date/Time: _____

Relinquished By: [Signature] Signature: _____ Date/Time: _____
Received By: _____ Signature: _____ 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 DS = Drum Solids
SE = Sediment DL = Drum Liquid
SO = Solid T = Tissue
SL = Sludge WI = Wipe
W = Water L = Liquid
O = Oil V = Vegetation
A = Air X = Other

CH2MHill Plateau
Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C.#
S18-011-529
Page 1 of 1

Collector:	Larry Rosane <i>LARRY ROSANE</i>	Contact/Requester:	Karen Waters-Husted	Telephone No.:	509-376-4650
SAF No.:	S18-011	Sampling Origin:	Hanford Site	Purchase Order/Charge Code:	300071
Project Title:	SURV, NOVEMBER 2017	Logbook No.:	HNF-N-506 98/5	Ice Chest No.:	N/A
Shipped To (Lab):	TestAmerica Incorporated, Rich	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/REMARK
 ** ** 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

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B3F5P3	Y	W	11-28-17	0923	1x125-mL P	300.0_ANTIONS_IC: COMMON	48 Hours	COOL <=6C

6470
W02548

Relinquished By:	Larry Rosane <i>LARRY ROSANE</i>	Received By:	Jeff Lucas <i>JEFF LUCAS</i>	Matrix *
Print First and Last Name	Signature	Print First and Last Name	Signature	S = Soil DS = Drum Solids
Date/Time	NOV 28 2017 1100	Date/Time	NOV 28 2017 1100	SE = Sediment DL = Drum Liquid
Relinquished By:	<i>Jeff Lucas</i>	Received By:	B. Jorgenson, TARL <i>B. JORGENSEN</i>	SO = Solid T = Tissue
Print First and Last Name	Signature	Print First and Last Name	Signature	SL = Sludge WI = Wipe
Date/Time	NOV 28 2017 1410	Date/Time	11-28-17 1410	W = Water L = Liquid
Relinquished By:		Received By:		O = Oil V = Vegetation
Print First and Last Name	Signature	Print First and Last Name	Signature	A = Air X = Other
Date/Time		Date/Time		

FINAL SAMPLE DISPOSITION Disposal Method (e.g., Return to customer, per lab procedure, used in process):

Detection Summary

Client: CH2M Hill Plateau Remediation Company
Project/Site: S18-011

TestAmerica Job ID: 300-6470-1
SDG: WC2548

Client Sample ID: B3F7L5

Lab Sample ID: 300-6470-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.074		0.0040	0.0015	mg/L	1		7196A	Total/NA

Client Sample ID: B3F5P2

Lab Sample ID: 300-6470-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.080		0.0040	0.0015	mg/L	1		7196A	Total/NA

Client Sample ID: B3F5P3

Lab Sample ID: 300-6470-3

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	12	D	0.14	0.070	mg/L	5		300.0	Total/NA
Fluoride	0.32	D	0.10	0.050	mg/L	2		300.0	Total/NA
Nitrite as N	0.15	D	0.076	0.038	mg/L	2		300.0	Total/NA
Sulfate	82	D	0.50	0.25	mg/L	2		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: S18-011

TestAmerica Job ID: 300-6470-1
 SDG: WC2548

Client Sample ID: B3F7L5

Lab Sample ID: 300-6470-1

Date Collected: 11/28/17 08:23

Matrix: Water

Date Received: 11/28/17 14:10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.074		0.0040	0.0015	mg/L			11/28/17 15:40	1

Client Sample ID: B3F5P2

Lab Sample ID: 300-6470-2

Date Collected: 11/28/17 08:23

Matrix: Water

Date Received: 11/28/17 14:10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.080		0.0040	0.0015	mg/L			11/28/17 15:43	1

Client Sample ID: B3F5P3

Lab Sample ID: 300-6470-3

Date Collected: 11/28/17 08:23

Matrix: Water

Date Received: 11/28/17 14:10

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			11/29/17 10:41	2
Nitrate as N	12	D	0.14	0.070	mg/L			11/29/17 12:57	5
Fluoride	0.32	D	0.10	0.050	mg/L			11/29/17 10:41	2
Nitrite as N	0.15	D	0.076	0.038	mg/L			11/29/17 10:41	2
Sulfate	82	D	0.50	0.25	mg/L			11/29/17 10:41	2

QC Sample Results

Client: CH2M Hill Plateau Remediation Company
Project/Site: S18-011

TestAmerica Job ID: 300-6470-1
SDG: WC2548

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 300-9799/5
Matrix: Water
Analysis Batch: 9799

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.014	U	0.028	0.014	mg/L			11/28/17 16:18	1
Nitrite as N	0.019	U	0.038	0.019	mg/L			11/28/17 16:18	1

Lab Sample ID: LCS 300-9799/6
Matrix: Water
Analysis Batch: 9799

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	2.23		mg/L		99	80 - 120
Nitrite as N	3.04	3.04		mg/L		100	80 - 120

Lab Sample ID: 300-6468-A-1 MS
Matrix: Water
Analysis Batch: 9799

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	0.028	U D	0.452	0.398	D	mg/L		88	75 - 125
Nitrite as N	0.038	U D	0.609	0.538	D	mg/L		88	75 - 125

Lab Sample ID: 300-6468-A-1 DU
Matrix: Water
Analysis Batch: 9799

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Nitrate as N	0.028	U D	0.028	U D	mg/L		NC	20
Nitrite as N	0.038	U D	0.038	U D	mg/L		NC	20

Lab Sample ID: MB 300-9800/5
Matrix: Water
Analysis Batch: 9800

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.10	U	0.20	0.10	mg/L			11/28/17 16:18	1
Fluoride	0.025	U	0.050	0.025	mg/L			11/28/17 16:18	1
Sulfate	0.13	U	0.25	0.13	mg/L			11/28/17 16:18	1

Lab Sample ID: LCS 300-9800/6
Matrix: Water
Analysis Batch: 9800

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	15.5		mg/L		97	80 - 120
Fluoride	4.00	3.92		mg/L		98	80 - 120
Sulfate	20.0	19.6		mg/L		98	80 - 120

QC Sample Results

Client: CH2M Hill Plateau Remediation Company
Project/Site: S18-011

TestAmerica Job ID: 300-6470-1
SDG: WC2548

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 300-6468-A-1 MS
Matrix: Water
Analysis Batch: 9800

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

Analyte	Sample		Spike Added	MS MS		Unit	D	%Rec	%Rec. Limits	
	Result	Qualifier		Result	Qualifier				Limits	Limits
Chloride	10	D	3.20	13.5	D	mg/L		97	75 - 125	
Fluoride	1.4	D	0.800	2.19	D	mg/L		103	75 - 125	
Sulfate	0.25	U D	4.00	3.63	D	mg/L		91	75 - 125	

Lab Sample ID: 300-6468-A-1 DU
Matrix: Water
Analysis Batch: 9800

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample		DU DU		Unit	D	RPD	RPD Limit	
	Result	Qualifier	Result	Qualifier				RPD	Limit
Chloride	10	D	10.2	D	mg/L		2	20	
Fluoride	1.4	D	1.35	D	mg/L		2	20	
Sulfate	0.25	U D	0.25	U D	mg/L		NC	20	

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 300-9807/3
Matrix: Water
Analysis Batch: 9807

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

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Cr (VI)	0.0015	U	0.0040	0.0015	mg/L			11/28/17 15:30	1

Lab Sample ID: LCS 300-9807/4
Matrix: Water
Analysis Batch: 9807

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

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec. Limits	
		Result	Qualifier				Limits	Limits
Cr (VI)	0.250	0.254		mg/L		102	80 - 120	

Lab Sample ID: 300-6469-A-2 MS
Matrix: Water
Analysis Batch: 9807

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

Analyte	Sample		Spike Added	MS MS		Unit	D	%Rec	%Rec. Limits	
	Result	Qualifier		Result	Qualifier				Limits	Limits
Cr (VI)	0.019		0.0501	0.0705		mg/L		103	75 - 125	

Lab Sample ID: 300-6469-A-2 DU
Matrix: Water
Analysis Batch: 9807

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample		DU DU		Unit	D	RPD	RPD Limit	
	Result	Qualifier	Result	Qualifier				RPD	Limit
Cr (VI)	0.019		0.0184		mg/L		2	20	

QC Association Summary

Client: CH2M Hill Plateau Remediation Company
Project/Site: S18-011

TestAmerica Job ID: 300-6470-1
SDG: WC2548

HPLC/IC

Analysis Batch: 9799

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
300-6470-3	B3F5P3	Total/NA	Water	300.0	
300-6470-3	B3F5P3	Total/NA	Water	300.0	
MB 300-9799/5	Method Blank	Total/NA	Water	300.0	
LCS 300-9799/6	Lab Control Sample	Total/NA	Water	300.0	
300-6468-A-1 MS	Matrix Spike	Total/NA	Water	300.0	
300-6468-A-1 DU	Duplicate	Total/NA	Water	300.0	

Analysis Batch: 9800

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
300-6470-3	B3F5P3	Total/NA	Water	300.0	
MB 300-9800/5	Method Blank	Total/NA	Water	300.0	
LCS 300-9800/6	Lab Control Sample	Total/NA	Water	300.0	
300-6468-A-1 MS	Matrix Spike	Total/NA	Water	300.0	
300-6468-A-1 DU	Duplicate	Total/NA	Water	300.0	

General Chemistry

Analysis Batch: 9807

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
300-6470-1	B3F7L5	Total/NA	Water	7196A	
300-6470-2	B3F5P2	Total/NA	Water	7196A	
MB 300-9807/3	Method Blank	Total/NA	Water	7196A	
LCS 300-9807/4	Lab Control Sample	Total/NA	Water	7196A	
300-6469-A-2 MS	Matrix Spike	Total/NA	Water	7196A	
300-6469-A-2 DU	Duplicate	Total/NA	Water	7196A	

Lab Chronicle

Client: CH2M Hill Plateau Remediation Company
 Project/Site: S18-011

TestAmerica Job ID: 300-6470-1
 SDG: WC2548

Client Sample ID: B3F7L5

Lab Sample ID: 300-6470-1

Date Collected: 11/28/17 08:23

Matrix: Water

Date Received: 11/28/17 14:10

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			9807	11/28/17 15:40	TRH	TAL RCH

Client Sample ID: B3F5P2

Lab Sample ID: 300-6470-2

Date Collected: 11/28/17 08:23

Matrix: Water

Date Received: 11/28/17 14:10

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			9807	11/28/17 15:43	TRH	TAL RCH

Client Sample ID: B3F5P3

Lab Sample ID: 300-6470-3

Date Collected: 11/28/17 08:23

Matrix: Water

Date Received: 11/28/17 14:10

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			9799	11/29/17 10:41	RTQ	TAL RCH
Total/NA	Analysis	300.0		2			9800	11/29/17 10:41	RTQ	TAL RCH
Total/NA	Analysis	300.0		5			9799	11/29/17 12:57	RTQ	TAL RCH

Client Sample ID: Method Blank

Lab Sample ID: MB 300-9799/5

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			9799	11/28/17 16:18	RTQ	TAL RCH

Client Sample ID: Method Blank

Lab Sample ID: MB 300-9800/5

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			9800	11/28/17 16:18	RTQ	TAL RCH

Client Sample ID: Method Blank

Lab Sample ID: MB 300-9807/3

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			9807	11/28/17 15:30	TRH	TAL RCH

Lab Chronicle

Client: CH2M Hill Plateau Remediation Company
 Project/Site: S18-011

TestAmerica Job ID: 300-6470-1
 SDG: WC2548

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 300-9799/6

Date Collected: N/A
 Date Received: N/A

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			9799	11/28/17 16:33	RTQ	TAL RCH

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 300-9800/6

Date Collected: N/A
 Date Received: N/A

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			9800	11/28/17 16:33	RTQ	TAL RCH

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 300-9807/4

Date Collected: N/A
 Date Received: N/A

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			9807	11/28/17 15:30	TRH	TAL RCH

Client Sample ID: Matrix Spike

Lab Sample ID: 300-6468-A-1 MS

Date Collected: 11/28/17 12:39
 Date Received: 11/28/17 13:10

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			9799	11/29/17 08:25	RTQ	TAL RCH
Total/NA	Analysis	300.0		2			9800	11/29/17 08:25	RTQ	TAL RCH

Client Sample ID: Matrix Spike

Lab Sample ID: 300-6469-A-2 MS

Date Collected: 11/28/17 12:04
 Date Received: 11/28/17 14:10

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			9807	11/28/17 15:30	TRH	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: S18-011

TestAmerica Job ID: 300-6470-1
 SDG: WC2548

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: S18-011

TestAmerica Job ID: 300-6470-1
SDG: WC2548

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
300-6470-1	B3F7L5	Water	11/28/17 08:23	11/28/17 14:10
300-6470-2	B3F5P2	Water	11/28/17 08:23	11/28/17 14:10
300-6470-3	B3F5P3	Water	11/28/17 08:23	11/28/17 14:10

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- 10
- 11
- 12
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Login Sample Receipt Checklist

Client: CH2M Hill Plateau Remediation Company

Job Number: 300-6470-1

SDG Number: WC2548

Login Number: 6470

List Number: 1

Creator: Jorgenson, Briana F

List Source: TestAmerica Richland

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	
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 (excluding tests with immediate HTs)	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 $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	