

7/5/2016

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: 300-3371-1
TestAmerica Sample Delivery Group: WC1206
Client Project/Site: F16-046

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

Attn: CPP Sample Management



Authorized for release by:
7/5/2016 3:55:27 PM
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LINKS

Review your project results through
TotalAccess

Have a Question?



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 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 less than five times the MDL.

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Definitions/Glossary

Client: CH2M Hill Plateau Remediation Company
Project/Site: F16-046

TestAmerica Job ID: 300-3371-1
SDG: WC1206

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
D	The reported value is from a dilution.
U	Analyzed for but not detected.
B	Estimated result. Result is less than the RL, but greater than MDL

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)

Case Narrative

Client: CH2M Hill Plateau Remediation Company
Project/Site: F16-046

TestAmerica Job ID: 300-3371-1
SDG: WC1206

Job ID: 300-3371-1

Laboratory: TestAmerica Richland

Narrative

Job Narrative
300-3371-1

Comments

No additional comments.

Receipt

The samples were received on 6/28/2016 10:50 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 5.4° 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.



COLLECTOR Kevin Patterson CHPRC	COMPANY CONTACT SUNNER, LC	TELEPHONE NO. 376-3922	PROJECT COORDINATOR SUNNER, LC	PRICE CODE C05	DATA TURNAROUND 7 Days / 7 Days
SAMPLING LOCATION 289-T, Influent Tank, Valve V12-Y30	PROJECT DESIGNATION 200W Pump & Treat - Treatment Plant Compliance Sampling - Water	FIELD LOGBOOK NO. HNF-N-49115	ACTUAL SAMPLE DEPTH N/A	SAF NO. F16-046	METHOD OF SHIPMENT GOVERNMENT VEHICLE
ICE CHEST NO. N/A	OFFSITE PROPERTY NO. N/A	BILL OF LADING/AIR BILL NO. N/A	ORIGINAL		
SHIPPED TO TestAmerica Incorporated, Richland					

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/JATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1. N/A	PRESERVATION Cool <-6C	HOLDING TIME 24 Hours	TYPE OF CONTAINER a/g	NO. OF CONTAINER(S) 1	VOLUME 60ml	SAMPLE ANALYSIS 7166 CR6- COMMON
SAMPLE NO. B35WH6	MATRIX* WATER	SAMPLE DATE JUN 27 2016	SAMPLE TIME 1332	B35N1 USE 1200P Dun 12.5.16			



300-3371 COC

7/5/2016

CHAIN OF POSSESSION	SIGN/ PRINT NAMES	SPECIAL INSTRUCTIONS
RELINQUISHED BY/REMOVED FROM Kevin Patterson CHPRC	RECEIVED BY/STORED IN SSU-1	TRVL-16-158
DATE/TIME JUN 27 2016 1415	DATE/TIME JUN 27 2016 1415	
RELINQUISHED BY/REMOVED FROM SSU-1	RECEIVED BY/STORED IN Judy West CHPRC	
DATE/TIME JUN 28 2016 0815	DATE/TIME JUN 28 2016 0815	
RELINQUISHED BY/REMOVED FROM Judy West CHPRC	RECEIVED BY/STORED IN J. Bock TRAVEL	
DATE/TIME JUN 28 2016 1050	DATE/TIME JUN 28 2016 1050	
RELINQUISHED BY/REMOVED FROM	RECEIVED BY/STORED IN	
DATE/TIME	DATE/TIME	
RELINQUISHED BY/REMOVED FROM	RECEIVED BY/STORED IN	
DATE/TIME	DATE/TIME	
RELINQUISHED BY/REMOVED FROM	RECEIVED BY/STORED IN	
DATE/TIME	DATE/TIME	

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

CH2M Hill Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

FL6-046-002 PAGE 1 OF 1

COLLECTOR Kevin Patterson CHPRC	COMPANY CONTACT SUNNER, LC	TELEPHONE NO. 376-3922	PROJECT COORDINATOR SUNNER, LC	PRICE CODE C05	DATA TURNAROUND 7 Days / 7 Days
SAMPLING LOCATION 289-TJ, Influent Tank, Valve V12-Y30	PROJECT DESIGNATION 200W Pump & Treat - Treatment Plant Compliance Sampling - Water	FIELD LOGBOOK NO. HNF-N-49115	SAF NO. F16-046	AIR QUALITY <input type="checkbox"/>	METHOD OF SHIPMENT GOVERNMENT VEHICLE
ICE CHEST NO. N/A	FIELD LOGBOOK NO. HNF-N-49115	ACTUAL SAMPLE DEPTH N/A	COA 303700	ORIGINAL	

SHIPPED TO TestAmerica Incorporated, Richland	OFFSITE PROPERTY NO. N/A	BILL OF LADING/AIR BILL NO. N/A
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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/DATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1. N/A	PRESERVATION Cool <=6C	SPECIAL HANDLING AND/OR STORAGE
		HOLDING TIME 48 Hours	
		TYPE OF CONTAINER P	
		NO. OF CONTAINER(S) 1	
		VOLUME 250ml	

SAMPLE NO. B35WH7	MATRIX* WATER	SAMPLE DATE JUN 27 2016	SAMPLE TIME 1332	<input checked="" type="checkbox"/>
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B35N1
WCI 2016

CHAIN OF POSSESSION

SIGN/ PRINT NAMES

SPECIAL INSTRUCTIONS

RELINQUISHED BY/REMOVED FROM Kevin Patterson CHPRC	DATE/TIME JUN 27 2016 1415	RECEIVED BY/STORED IN SSU-1	DATE/TIME JUN 27 2016 1415	TRVL-16-158 (1) 300.0 ANIONS IC: COMMON; 300.0 ANIONS IC: COMMON (Add-on) {Bromide};
--	-------------------------------	--------------------------------	-------------------------------	---

RELINQUISHED BY/REMOVED FROM Lesly West CHPRC	DATE/TIME JUN 28 2016 0815	RECEIVED BY/STORED IN Lesly West CHPRC	DATE/TIME JUN 28 2016 0815	
RELINQUISHED BY/REMOVED FROM Kevin Patterson CHPRC	DATE/TIME JUN 28 2016 1050	RECEIVED BY/STORED IN Kevin Patterson CHPRC	DATE/TIME JUN 28 2016 1050	

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

Detection Summary

Client: CH2M Hill Plateau Remediation Company
Project/Site: F16-046

TestAmerica Job ID: 300-3371-1
SDG: WC1206

Client Sample ID: B35WH6

Lab Sample ID: 300-3371-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.022		0.0040	0.0015	mg/L	1		7196A	Total/NA

Client Sample ID: B35WH7

Lab Sample ID: 300-3371-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	19	D	0.40	0.20	mg/L	2		300.0	Total/NA
Nitrate as N	30	D	0.28	0.14	mg/L	10		300.0	Total/NA
Fluoride	0.40	D	0.10	0.050	mg/L	2		300.0	Total/NA
Sulfate	46	D	0.50	0.25	mg/L	2		300.0	Total/NA
Bromide	0.20	B D	0.25	0.13	mg/L	2		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

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Client Sample Results

Client: CH2M Hill Plateau Remediation Company
 Project/Site: F16-046

TestAmerica Job ID: 300-3371-1
 SDG: WC1206

Client Sample ID: B35WH6

Lab Sample ID: 300-3371-1

Date Collected: 06/27/16 13:32

Matrix: Water

Date Received: 06/28/16 10:50

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.022		0.0040	0.0015	mg/L			06/28/16 12:04	1

Client Sample ID: B35WH7

Lab Sample ID: 300-3371-2

Date Collected: 06/27/16 13:32

Matrix: Water

Date Received: 06/28/16 10:50

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	19	D	0.40	0.20	mg/L			06/28/16 17:48	2
Nitrate as N	30	D	0.28	0.14	mg/L			06/28/16 18:48	10
Fluoride	0.40	D	0.10	0.050	mg/L			06/28/16 17:48	2
Nitrite as N	0.038	U D	0.076	0.038	mg/L			06/28/16 17:48	2
Sulfate	46	D	0.50	0.25	mg/L			06/28/16 17:48	2
Bromide	0.20	B D	0.25	0.13	mg/L			06/28/16 17:48	2

QC Sample Results

Client: CH2M Hill Plateau Remediation Company
Project/Site: F16-046

TestAmerica Job ID: 300-3371-1
SDG: WC1206

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 300-4701/17

Matrix: Water

Analysis Batch: 4701

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			06/28/16 17:18	1
Nitrite as N	0.019	U	0.038	0.019	mg/L			06/28/16 17:18	1

Lab Sample ID: LCS 300-4701/18

Matrix: Water

Analysis Batch: 4701

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	2.32		mg/L		103	80 - 120
Nitrite as N	3.04	3.12		mg/L		102	80 - 120

Lab Sample ID: 300-3371-2 MS

Matrix: Water

Analysis Batch: 4701

Client Sample ID: B35WH7

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 D	0.609	0.519	D	mg/L		85	75 - 125

Lab Sample ID: 300-3371-2 MS

Matrix: Water

Analysis Batch: 4701

Client Sample ID: B35WH7

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	30	D	2.26	32.7	D	mg/L		97	75 - 125

Lab Sample ID: 300-3371-2 DU

Matrix: Water

Analysis Batch: 4701

Client Sample ID: B35WH7

Prep Type: Total/NA

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

Lab Sample ID: 300-3371-2 DU

Matrix: Water

Analysis Batch: 4701

Client Sample ID: B35WH7

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrate as N	30	D	30.5	D	mg/L		0	20

Lab Sample ID: MB 300-4702/17

Matrix: Water

Analysis Batch: 4702

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			06/28/16 17:18	1
Fluoride	0.025	U	0.050	0.025	mg/L			06/28/16 17:18	1
Sulfate	0.13	U	0.25	0.13	mg/L			06/28/16 17:18	1
Bromide	0.063	U	0.13	0.063	mg/L			06/28/16 17:18	1

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QC Sample Results

Client: CH2M Hill Plateau Remediation Company
Project/Site: F16-046

TestAmerica Job ID: 300-3371-1
SDG: WC1206

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 300-4702/18

Matrix: Water

Analysis Batch: 4702

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	16.1		mg/L		101	80 - 120
Fluoride	4.00	4.07		mg/L		102	80 - 120
Sulfate	20.0	20.3		mg/L		102	80 - 120
Bromide	10.0	10.3		mg/L		103	80 - 120

Lab Sample ID: 300-3371-2 MS

Matrix: Water

Analysis Batch: 4702

Client Sample ID: B35WH7

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	19	D	3.20	22.5	D	mg/L		96	75 - 125
Fluoride	0.40	D	0.800	1.16	D	mg/L		96	75 - 125
Sulfate	46	D	4.00	49.9	D	mg/L		94	75 - 125
Bromide	0.20	B D	2.00	1.87	D	mg/L		83	75 - 125

Lab Sample ID: 300-3371-2 DU

Matrix: Water

Analysis Batch: 4702

Client Sample ID: B35WH7

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chloride	19	D	19.4	D	mg/L		0.3	20
Fluoride	0.40	D	0.394	D	mg/L		0.5	20
Sulfate	46	D	46.0	D	mg/L		0.4	20
Bromide	0.20	B D	0.203	B D	mg/L		0.4	20

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 300-4714/3

Matrix: Water

Analysis Batch: 4714

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			06/28/16 12:01	1

Lab Sample ID: LCS 300-4714/4

Matrix: Water

Analysis Batch: 4714

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	0.250		mg/L		100	80 - 120

Lab Sample ID: 300-3371-1 MS

Matrix: Water

Analysis Batch: 4714

Client Sample ID: B35WH6

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cr (VI)	0.022		0.0499	0.0726		mg/L		101	75 - 125

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QC Sample Results

Client: CH2M Hill Plateau Remediation Company
 Project/Site: F16-046

TestAmerica Job ID: 300-3371-1
 SDG: WC1206

Method: 7196A - Chromium, Hexavalent (Continued)

Lab Sample ID: 300-3371-1 DU
 Matrix: Water
 Analysis Batch: 4714

Client Sample ID: B35WH6
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Cr (VI)	0.022		0.0224		mg/L		0.9	20

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QC Association Summary

Client: CH2M Hill Plateau Remediation Company
Project/Site: F16-046

TestAmerica Job ID: 300-3371-1
SDG: WC1206

HPLC/IC

Analysis Batch: 4701

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
300-3371-2	B35WH7	Total/NA	Water	300.0	
300-3371-2	B35WH7	Total/NA	Water	300.0	
300-3371-2 DU	B35WH7	Total/NA	Water	300.0	
300-3371-2 DU	B35WH7	Total/NA	Water	300.0	
300-3371-2 MS	B35WH7	Total/NA	Water	300.0	
300-3371-2 MS	B35WH7	Total/NA	Water	300.0	
LCS 300-4701/18	Lab Control Sample	Total/NA	Water	300.0	
MB 300-4701/17	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 4702

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
300-3371-2	B35WH7	Total/NA	Water	300.0	
300-3371-2 DU	B35WH7	Total/NA	Water	300.0	
300-3371-2 MS	B35WH7	Total/NA	Water	300.0	
LCS 300-4702/18	Lab Control Sample	Total/NA	Water	300.0	
MB 300-4702/17	Method Blank	Total/NA	Water	300.0	

General Chemistry

Analysis Batch: 4714

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
300-3371-1	B35WH6	Total/NA	Water	7196A	
300-3371-1 DU	B35WH6	Total/NA	Water	7196A	
300-3371-1 MS	B35WH6	Total/NA	Water	7196A	
LCS 300-4714/4	Lab Control Sample	Total/NA	Water	7196A	
MB 300-4714/3	Method Blank	Total/NA	Water	7196A	

Lab Chronicle

Client: CH2M Hill Plateau Remediation Company
Project/Site: F16-046

TestAmerica Job ID: 300-3371-1
SDG: WC1206

Client Sample ID: B35WH6

Date Collected: 06/27/16 13:32

Date Received: 06/28/16 10:50

Lab Sample ID: 300-3371-1

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			4714	06/28/16 12:04	RLC	TAL RCH

Client Sample ID: B35WH7

Date Collected: 06/27/16 13:32

Date Received: 06/28/16 10:50

Lab Sample ID: 300-3371-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		2	10 mL		4701	06/28/16 17:48	CPM	TAL RCH
Total/NA	Analysis	300.0		2	10 mL		4702	06/28/16 17:48	CPM	TAL RCH
Total/NA	Analysis	300.0		10	10 mL		4701	06/28/16 18:48	CPM	TAL RCH

Client Sample ID: B35WH6

Date Collected: 06/27/16 13:32

Date Received: 06/28/16 10:50

Lab Sample ID: 300-3371-1 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			4714	06/28/16 12:05	RLC	TAL RCH

Client Sample ID: B35WH7

Date Collected: 06/27/16 13:32

Date Received: 06/28/16 10:50

Lab Sample ID: 300-3371-2 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		4701	06/28/16 18:18	CPM	TAL RCH
Total/NA	Analysis	300.0		2	10 mL		4702	06/28/16 18:18	CPM	TAL RCH
Total/NA	Analysis	300.0		10	10 mL		4701	06/28/16 19:19	CPM	TAL RCH

Client Sample ID: Lab Control Sample

Date Collected: N/A

Date Received: N/A

Lab Sample ID: LCS 300-4701/18

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	10 mL		4701	06/28/16 17:33	CPM	TAL RCH

Client Sample ID: Lab Control Sample

Date Collected: N/A

Date Received: N/A

Lab Sample ID: LCS 300-4702/18

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	10 mL		4702	06/28/16 17:33	CPM	TAL RCH

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Lab Chronicle

Client: CH2M Hill Plateau Remediation Company
Project/Site: F16-046

TestAmerica Job ID: 300-3371-1
SDG: WC1206

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 300-4714/4

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			4714	06/28/16 12:01	RLC	TAL RCH

Client Sample ID: Method Blank

Lab Sample ID: MB 300-4701/17

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		4701	06/28/16 17:18	CPM	TAL RCH

Client Sample ID: Method Blank

Lab Sample ID: MB 300-4702/17

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		4702	06/28/16 17:18	CPM	TAL RCH

Client Sample ID: Method Blank

Lab Sample ID: MB 300-4714/3

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			4714	06/28/16 12:01	RLC	TAL RCH

Client Sample ID: B35WH6

Lab Sample ID: 300-3371-1 MS

Date Collected: 06/27/16 13:32

Matrix: Water

Date Received: 06/28/16 10:50

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	4714	06/28/16 12:02	RLC	TAL RCH

Client Sample ID: B35WH7

Lab Sample ID: 300-3371-2 MS

Date Collected: 06/27/16 13:32

Matrix: Water

Date Received: 06/28/16 10:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		2	10 mL		4701	06/28/16 18:03	CPM	TAL RCH
Total/NA	Analysis	300.0		2	10 mL		4702	06/28/16 18:03	CPM	TAL RCH
Total/NA	Analysis	300.0		10	10 mL		4701	06/28/16 19:03	CPM	TAL RCH

Laboratory References:

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

TestAmerica Richland

Method Summary

Client: CH2M Hill Plateau Remediation Company
 Project/Site: F16-046

TestAmerica Job ID: 300-3371-1
 SDG: WC1206

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: F16-046

TestAmerica Job ID: 300-3371-1
SDG: WC1206

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
300-3371-1	B35WH6	Water	06/27/16 13:32	06/28/16 10:50
300-3371-2	B35WH7	Water	06/27/16 13:32	06/28/16 10:50

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

Login Sample Receipt Checklist

Client: CH2M Hill Plateau Remediation Company

Job Number: 300-3371-1

SDG Number: WC1206

Login Number: 3371

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.	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 <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	