

July 28, 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: 300-3443-1

TestAmerica Sample Delivery Group: WC1244

Client Project/Site: F16-042

For:

CH2M Hill Plateau Remediation Company

PO BOX 1600

Mail Stop R3-50

Richland, Washington 99352

Attn: CPP Sample Management



Authorized for release by:

7/28/2016 8:42:01 AM

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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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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
B	Estimated result. Result is less than the RL, but greater than MDL
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)

Client: CH2M Hill Plateau Remediation Company
Project/Site: F16-042

TestAmerica Job ID: 300-3443-1
SDG: WC1244

Job ID: 300-3443-1

Laboratory: TestAmerica Richland

Narrative

Job Narrative
300-3443-1

Comments

No additional comments.

Receipt

The samples were received on 7/11/2016 2:50 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 6.7° C.

HPLC/IC

Method 300.0: The matrix spike (MS) recoveries for analytical batch 300-4845 were outside control limits for Sulfate. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

General Chemistry

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



CH2M Hill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		F16-042-069	PAGE 1 OF 1
COLLECTOR <i>Juan Aguilar @ HPRC</i>	COMPANY CONTACT TODAK, D	TELEPHONE NO. 376-6427	PROJECT COORDINATOR TODAK, D	PRICE CODE 7H	DATA TURNAROUND 30 Days / 30 Days
SAMPLING LOCATION C9403, I-006	PROJECT DESIGNATION 100-NR-2 Drilling - Water	FIELD LOGBOOK NO. HFS-N-645-3/95	ACTUAL SAMPLE DEPTH 75.14'	SAF NO. F16-042	<input type="checkbox"/> AIR QUALITY
ICE CHEST NO.	OFFSITE PROPERTY NO.		COA 304070	METHOD OF SHIPMENT GOVERNMENT VEHICLE ORIGINAL	
SHIPPED TO TestAmerica Incorporated, Richland		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	*Contains Radioactive Material at concentrations that are not be regulated for transportation per 49 CFR/LATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1. NA	PRESERVATION Cool <=6C	HOLDING TIME 24 Hours	NO. OF CONTAINERS(S) 1	VOLUME 60ml	
		SPECIAL HANDLING AND/OR STORAGE		SAMPLE ANALYSIS		
		SAMPLE NO. B35XD0	MATRIX* WATER	SAMPLE DATE JUL 11 2016	SAMPLE TIME 1101	
		<p><i>* Sample was Filtered</i></p> <p><i>* 3443</i></p> <p><i>W012444</i></p>				

July 28, 2016

FILTER

CHAIN OF POSSESSION		SIGN/ PRINT NAMES		SPECIAL INSTRUCTIONS	
RELINQUISHED BY/REMOVED FROM <i>Juan Aguilar</i>	DATE/TIME JUL 11 2016 1400	RECEIVED BY/STORED IN <i>JJ Bock, TARL</i>	DATE/TIME JUL 11 2016 1400	FILTER	
RELINQUISHED BY/REMOVED FROM Troy Berger	DATE/TIME JUL 11 2016 1458	RECEIVED BY/STORED IN <i>JJ Bock, TARL</i>	DATE/TIME JUL 11 2016 1458		
RELINQUISHED BY/REMOVED FROM CHPRC	DATE/TIME JUL 11 2016 1458	RECEIVED BY/STORED IN <i>JJ Bock, TARL</i>	DATE/TIME JUL 11 2016 1458		
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		

July 28, 2016

CH2M Hill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		F16-042-065	PAGE 1 OF 1
COLLECTOR <i>Jean Aguilera C-11222</i>	COMPANY CONTACT TODAK, D	TELEPHONE NO. 376-6427	PROJECT COORDINATOR TODAK, D	PRICE CODE 7H	DATA TURNAROUND 30 Days / 30 Days
SAMPLING LOCATION C9403, I-006	PROJECT DESIGNATION 100-NR-2 Drilling - Water	FIELD LOGBOOK NO. HNF-N-645-3/95	ACTUAL SAMPLE DEPTH 75.14'	SAF NO. F16-042	<input type="checkbox"/> ORIGINAL
ICE CHEST NO.	OFFSITE PROPERTY NO.				
SHIPPED TO TestAmerica Incorporated, Richland				BILL OF LADING/AIR BILL NO.	

MATRIX*	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, NA	PRESERVATION	Cool <=6C
		HOLDING TIME	48 Hours
		TYPE OF CONTAINER	P
		NO. OF CONTAINER(S)	1
		VOLUME	500ml
		SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

32443
32444
** Sample was Filtered*

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B35XC6	WATER	JUL 11 2016	1101

CHAIN OF POSSESSION		SIGN/ PRINT NAMES		SPECIAL INSTRUCTIONS	
RELINQUISHED BY/REMOVED FROM <i>Jean Aguilera C-11222</i>	DATE/TIME JUL 11 2016 1400	RECEIVED BY/STORER IN TODAK, D	DATE/TIME JUL 11 2016 1400	(1) 300.0_ANIONS_IC: COMMON {Chloride, Fluoride, Nitrogen in Nitrate, Nitrogen in Nitrite, Sulfate}; 300.0_ANIONS_IC: COMMON (Add-on) {Phosphorus in phosphate};	
RELINQUISHED BY/REMOVED FROM <i>Chirpa</i>	DATE/TIME JUL 11 2016 1450	RECEIVED BY/STORER IN <i>J. Bock, TARL</i>	DATE/TIME JUL 11 2016 1450		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORER IN	DATE/TIME		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORER IN	DATE/TIME		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORER IN	DATE/TIME		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORER IN	DATE/TIME		
LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME		
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME		

~~July 28, 2016~~
Detection Summary

Client: CH2M Hill Plateau Remediation Company
 Project/Site: F16-042

TestAmerica Job ID: 300-3443-1
 SDG: WC1244

Client Sample ID: B35XC5

Lab Sample ID: 300-3443-1

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

Client Sample ID: B35XD0

Lab Sample ID: 300-3443-2

No Detections.

Client Sample ID: B35XC6

Lab Sample ID: 300-3443-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	23	D	2.0	1.0	mg/L	10		300.0	Total/NA
Nitrate as N	2.4	D	0.28	0.14	mg/L	10		300.0	Total/NA
Fluoride	0.70	D	0.10	0.050	mg/L	2		300.0	Total/NA
Nitrite as N	0.98	D	0.076	0.038	mg/L	2		300.0	Total/NA
Sulfate	100	D	2.5	1.3	mg/L	10		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Richland



July 28, 2016
Client Sample Results

Client: CH2M Hill Plateau Remediation Company
Project/Site: F16-042

TestAmerica Job ID: 300-3443-1
SDG: WC1244

Client Sample ID: B35XC5

Lab Sample ID: 300-3443-1

Date Collected: 07/11/16 11:01
Date Received: 07/11/16 14:50

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.0015	B	0.0040	0.0015	mg/L			07/12/16 09:23	1

Client Sample ID: B35XD0

Lab Sample ID: 300-3443-2

Date Collected: 07/11/16 11:01
Date Received: 07/11/16 14:50

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.0015	U	0.0040	0.0015	mg/L			07/12/16 09:24	1

Client Sample ID: B35XC6

Lab Sample ID: 300-3443-3

Date Collected: 07/11/16 11:01
Date Received: 07/11/16 14:50

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	23	D	2.0	1.0	mg/L			07/12/16 13:52	10
Nitrate as N	2.4	D	0.28	0.14	mg/L			07/12/16 13:52	10
Fluoride	0.70	D	0.10	0.050	mg/L			07/12/16 12:51	2
Nitrite as N	0.98	D	0.076	0.038	mg/L			07/12/16 12:51	2
Orthophosphate as P	0.082	U D	0.16	0.082	mg/L			07/12/16 12:51	2
Sulfate	100	D	2.5	1.3	mg/L			07/12/16 13:52	10

Client: CH2M Hill Plateau Remediation Company
Project/Site: F16-042

TestAmerica Job ID: 300-3443-1
SDG: WC1244

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 300-4844/5
Matrix: Water
Analysis Batch: 4844

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			07/12/16 12:21	1
Nitrite as N	0.019	U	0.038	0.019	mg/L			07/12/16 12:21	1
Orthophosphate as P	0.041	U	0.082	0.041	mg/L			07/12/16 12:21	1

Lab Sample ID: LCS 300-4844/6
Matrix: Water
Analysis Batch: 4844

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	3.01		mg/L		99	80 - 120
Orthophosphate as P	6.53	6.45		mg/L		99	80 - 120

Lab Sample ID: 300-3443-3 MS
Matrix: Water
Analysis Batch: 4844

Client Sample ID: B35XC6
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as N	0.98	D	0.609	1.63	D	mg/L		107	75 - 125
Orthophosphate as P	0.082	U D	1.31	1.10	D	mg/L		84	75 - 125

Lab Sample ID: 300-3443-3 MS
Matrix: Water
Analysis Batch: 4844

Client Sample ID: B35XC6
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	2.4	D	2.26	4.34	D	mg/L		86	75 - 125

Lab Sample ID: 300-3443-3 DU
Matrix: Water
Analysis Batch: 4844

Client Sample ID: B35XC6
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrite as N	0.98	D	0.999	D	mg/L		2	20
Orthophosphate as P	0.082	U D	0.082	U D	mg/L		NC	20

Lab Sample ID: 300-3443-3 DU
Matrix: Water
Analysis Batch: 4844

Client Sample ID: B35XC6
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrate as N	2.4	D	2.34	D	mg/L		2	20

Lab Sample ID: MB 300-4845/5
Matrix: Water
Analysis Batch: 4845

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			07/12/16 12:21	1

TestAmerica Richland

Client: CH2M Hill Plateau Remediation Company
Project/Site: F16-042

TestAmerica Job ID: 300-3443-1
SDG: WC1244

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 300-4845/5
Matrix: Water
Analysis Batch: 4845

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.025	U	0.050	0.025	mg/L			07/12/16 12:21	1
Sulfate	0.13	U	0.25	0.13	mg/L			07/12/16 12:21	1

Lab Sample ID: LCS 300-4845/6
Matrix: Water
Analysis Batch: 4845

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	15.6		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

Lab Sample ID: 300-3443-3 MS
Matrix: Water
Analysis Batch: 4845

Client Sample ID: B35XC6
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	0.70	D	0.800	1.50	D	mg/L		101	75 - 125

Lab Sample ID: 300-3443-3 MS
Matrix: Water
Analysis Batch: 4845

Client Sample ID: B35XC6
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	23	D	16.0	36.9	D	mg/L		88	75 - 125
Sulfate	100	D	20.0	117	D	mg/L		67	75 - 125

Lab Sample ID: 300-3443-3 DU
Matrix: Water
Analysis Batch: 4845

Client Sample ID: B35XC6
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Fluoride	0.70	D	0.713	D	mg/L		2	20

Lab Sample ID: 300-3443-3 DU
Matrix: Water
Analysis Batch: 4845

Client Sample ID: B35XC6
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chloride	23	D	22.3	D	mg/L		3	20
Sulfate	100	D	101	D	mg/L		3	20

Client: CH2M Hill Plateau Remediation Company
Project/Site: F16-042

TestAmerica Job ID: 300-3443-1
SDG: WC1244

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 300-4841/3
Matrix: Water
Analysis Batch: 4841

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			07/12/16 09:20	1

Lab Sample ID: LCS 300-4841/4
Matrix: Water
Analysis Batch: 4841

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	0.254		mg/L		102	80 - 120

Lab Sample ID: 300-3443-1 MS
Matrix: Water
Analysis Batch: 4841

Client Sample ID: B35XC5
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cr (VI)	0.0015	B	0.0500	0.0478		mg/L		93	75 - 125

Lab Sample ID: 300-3443-1 DU
Matrix: Water
Analysis Batch: 4841

Client Sample ID: B35XC5
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Cr (VI)	0.0015	B	0.0015	U	mg/L		NC	20

July 28, 2016
QC Association Summary

Client: CH2M Hill Plateau Remediation Company
Project/Site: F16-042

TestAmerica Job ID: 300-3443-1
SDG: WC1244

HPLC/IC

Analysis Batch: 4844

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
300-3443-3	B35XC6	Total/NA	Water	300.0	
300-3443-3	B35XC6	Total/NA	Water	300.0	
MB 300-4844/5	Method Blank	Total/NA	Water	300.0	
LCS 300-4844/6	Lab Control Sample	Total/NA	Water	300.0	
300-3443-3 MS	B35XC6	Total/NA	Water	300.0	
300-3443-3 MS	B35XC6	Total/NA	Water	300.0	
300-3443-3 DU	B35XC6	Total/NA	Water	300.0	
300-3443-3 DU	B35XC6	Total/NA	Water	300.0	

Analysis Batch: 4845

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
300-3443-3	B35XC6	Total/NA	Water	300.0	
300-3443-3	B35XC6	Total/NA	Water	300.0	
MB 300-4845/5	Method Blank	Total/NA	Water	300.0	
LCS 300-4845/6	Lab Control Sample	Total/NA	Water	300.0	
300-3443-3 MS	B35XC6	Total/NA	Water	300.0	
300-3443-3 MS	B35XC6	Total/NA	Water	300.0	
300-3443-3 DU	B35XC6	Total/NA	Water	300.0	
300-3443-3 DU	B35XC6	Total/NA	Water	300.0	

General Chemistry

Analysis Batch: 4841

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
300-3443-1	B35XC5	Total/NA	Water	7196A	
300-3443-2	B35XD0	Total/NA	Water	7196A	
MB 300-4841/3	Method Blank	Total/NA	Water	7196A	
LCS 300-4841/4	Lab Control Sample	Total/NA	Water	7196A	
300-3443-1 MS	B35XC5	Total/NA	Water	7196A	
300-3443-1 DU	B35XC5	Total/NA	Water	7196A	

Client: CH2M Hill Plateau Remediation Company
Project/Site: F16-042

TestAmerica Job ID: 300-3443-1
SDG: WC1244

Client Sample ID: B35XC5

Date Collected: 07/11/16 11:01

Date Received: 07/11/16 14:50

Lab Sample ID: 300-3443-1

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			4841	07/12/16 09:23	RLC	TAL RCH

Client Sample ID: B35XD0

Date Collected: 07/11/16 11:01

Date Received: 07/11/16 14:50

Lab Sample ID: 300-3443-2

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			4841	07/12/16 09:24	RLC	TAL RCH

Client Sample ID: B35XC6

Date Collected: 07/11/16 11:01

Date Received: 07/11/16 14:50

Lab Sample ID: 300-3443-3

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			4844	07/12/16 12:51	CPM	TAL RCH
Total/NA	Analysis	300.0		2			4845	07/12/16 12:51	CPM	TAL RCH
Total/NA	Analysis	300.0		10			4844	07/12/16 13:52	CPM	TAL RCH
Total/NA	Analysis	300.0		10			4845	07/12/16 13:52	CPM	TAL RCH

Client Sample ID: Method Blank

Date Collected: N/A

Date Received: N/A

Lab Sample ID: MB 300-4841/3

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	7196A		1			4841	07/12/16 09:20	RLC	TAL RCH

Client Sample ID: Method Blank

Date Collected: N/A

Date Received: N/A

Lab Sample ID: MB 300-4844/5

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			4844	07/12/16 12:21	CPM	TAL RCH

Client Sample ID: Method Blank

Date Collected: N/A

Date Received: N/A

Lab Sample ID: MB 300-4845/5

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			4845	07/12/16 12:21	CPM	TAL RCH

Client: CH2M Hill Plateau Remediation Company
Project/Site: F16-042

TestAmerica Job ID: 300-3443-1
SDG: WC1244

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 300-4841/4

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			4841	07/12/16 09:20	RLC	TAL RCH

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 300-4844/6

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			4844	07/12/16 12:36	CPM	TAL RCH

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 300-4845/6

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			4845	07/12/16 12:36	CPM	TAL RCH

Client Sample ID: B35XC5

Lab Sample ID: 300-3443-1 MS

Date Collected: 07/11/16 11:01
Date Received: 07/11/16 14:50

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			4841	07/12/16 09:21	RLC	TAL RCH

Client Sample ID: B35XC6

Lab Sample ID: 300-3443-3 MS

Date Collected: 07/11/16 11:01
Date Received: 07/11/16 14:50

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			4844	07/12/16 13:07	CPM	TAL RCH
Total/NA	Analysis	300.0		2			4845	07/12/16 13:07	CPM	TAL RCH
Total/NA	Analysis	300.0		10			4844	07/12/16 14:07	CPM	TAL RCH
Total/NA	Analysis	300.0		10			4845	07/12/16 14:07	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: F16-042

TestAmerica Job ID: 300-3443-1
SDG: WC1244

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



July 28, 2016
Sample Summary

Client: CH2M Hill Plateau Remediation Company
Project/Site: F16-042

TestAmerica Job ID: 300-3443-1
SDG: WC1244

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
300-3443-1	B35XC5	Water	07/11/16 11:01	07/11/16 14:50
300-3443-2	B35XD0	Water	07/11/16 11:01	07/11/16 14:50
300-3443-3	B35XC6	Water	07/11/16 11:01	07/11/16 14:50

- 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: 300-3443-1

SDG Number: WC1244

Login Number: 3443

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	

