

July 29, 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: 300-3531-1

TestAmerica Sample Delivery Group: WC1281

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:

7/29/2016 4:13:47 PM

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### LINKS

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[www.testamericainc.com](http://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.*



# Table of Contents

Cover Page . . . . .	1
Table of Contents . . . . .	2
Definitions/Glossary . . . . .	3
Case Narrative . . . . .	4
Chain of Custody . . . . .	5
Detection Summary . . . . .	17
Client Sample Results . . . . .	19
QC Sample Results . . . . .	22
QC Association Summary . . . . .	25
Lab Chronicle . . . . .	26
Method Summary . . . . .	30
Sample Summary . . . . .	31
Receipt Checklists . . . . .	32

## 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)

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

TestAmerica Job ID: 300-3531-1  
SDG: WC1281

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**Job ID: 300-3531-1**

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**Laboratory: TestAmerica Richland**

**Narrative**

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**Job Narrative  
300-3531-1**

**Comments**

No additional comments.

**Receipt**

The samples were received on 7/20/2016 2:50 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 9.9° 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		F16-046-082	PAGE 1 OF 1
COLLECTOR CHRIS FULTON CHPRC	COMPANY CONTACT SUMNER, LC	TELEPHONE NO. 376-3922	PROJECT COORDINATOR SUMNER, LC	PRICE CODE 7C	DATA TURNAROUND 15 Days / 15 Days
SAMPLING LOCATION 289-TA, Pre Tc99X Resin Tanks, Valve V05-Y20	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 <b>ORIGINAL</b>
ICE CHEST NO. N/A	ACTUAL SAMPLE DEPTH N/A	COA 303700	BILL OF LADING/AIR BILL NO. N/A		
SHIPPED TO TestAmerica Incorporated, Richland	OFFSITE PROPERTY NO. N/A				

MATRIX*	POSSIBLE SAMPLE HAZARDS/ REMARKS *Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR/LATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1. N/A	PRESERVATION	Cool <=6C
		HOLDING TIME	24 Hours
SPECIAL HANDLING AND/OR STORAGE		TYPE OF CONTAINER	ag
		NO. OF CONTAINER(S)	1
SAMPLE NO.	MATRIX*	VOLUME	60ml
		SAMPLE ANALYSIS	7396 CR6 COMMON;
B-36290	WATER	SAMPLE DATE	JUL 20 2016 0920
		SAMPLE TIME	0920

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300-3531 COC

July 29, 2016

CHAIN OF POSSESSION		SIGN/ PRINT NAMES		SPECIAL INSTRUCTIONS	
RELINQUISHED BY/REMOVED FROM CHRIS FULTON CHPRC	DATE/TIME JUL 20 2016 0918	RECEIVED BY/STORED IN Janelle Zunker CHPRC	DATE/TIME JUL 20 2016 0920		
RELINQUISHED BY/REMOVED FROM Janelle Zunker CHPRC	DATE/TIME JUL 20 2016 1450	RECEIVED BY/STORED IN J. Bock, TARL	DATE/TIME JUL 20 2016 1450		
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		

CH2MHill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		F16-046-069	PAGE 1 OF 1
COLLECTOR	CHRIS FULTON CHPRC	COMPANY CONTACT	SUNNER, LC	TELEPHONE NO.	376-3922
SAMPLING LOCATION	289-TA, Pre UUX Resin Column, Valve V25-Y11A1	PROJECT DESIGNATION	200W Pump & Treat - Treatment Plant Compliance Sampling - Water	PROJECT COORDINATOR	SUNNER, LC
ICE CHEST NO.	N/A	FIELD LOGBOOK NO.	HNF-N- 491-15	SAF NO.	F16-046
SHIPPED TO	TestAmerica Incorporated, Richland	OFFSITE PROPERTY NO.	N/A	ACTUAL SAMPLE DEPTH	N/A
				COA	303700
				BILL OF LADING/AIR BILL NO.	N/A
				PRICE CODE	7C
				AIR QUALITY	<input type="checkbox"/>
				METHOD OF SHIPMENT	GOVERNMENT VEHICLE
					<b>ORIGINAL</b>
					DATA TURNAROUND 15 Days / 15 Days

MATRIX*	POSSIBLE SAMPLE HAZARDS/ REMARKS	PRESERVATION	Cool <=6C
A=Air	*Contains Radioactive Material at concentrations that are not be regulated for	HOLDING TIME	24 Hours
DL=Drum	Liquids	TYPE OF CONTAINER	3G
DS=Drum	Solids	NO. OF CONTAINER(S)	1
L=Liquid	Goods Regulations but are not releasable per DOE Order 458.1. N/A	VOLUME	60mL
O=Oil		SAMPLE ANALYSIS	7196, C96: COMMON;
SE=Soil			
SE=Sediment			
T=Tissue			
V=Vegetation			
W=Water			
WI=Wipe			
X=Other			

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B36277	WATER	JUL 20 2016	0627	✓

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July 29, 2016

CHAIN OF POSSESSION		SIGN/ PRINT NAMES		SPECIAL INSTRUCTIONS	
RELINQUISHED BY/REMOVED FROM	CHRIS FULTON	DATE/TIME	JUL 20 2016 0942	RECEIVED BY/STORED IN	Janelle Zinke
RELINQUISHED BY/REMOVED FROM	Janelle Zinke	DATE/TIME	JUL 20 2016 1450	RECEIVED BY/STORED IN	J. Bock, TARGUL
RELINQUISHED BY/REMOVED FROM	CHPRC	DATE/TIME	JUL 20 2016 1450	RECEIVED BY/STORED IN	J. Bock, TARGUL
RELINQUISHED BY/REMOVED FROM		DATE/TIME		RECEIVED BY/STORED IN	
RELINQUISHED BY/REMOVED FROM		DATE/TIME		RECEIVED BY/STORED IN	
RELINQUISHED BY/REMOVED FROM		DATE/TIME		RECEIVED BY/STORED IN	
RELINQUISHED BY/REMOVED FROM		DATE/TIME		RECEIVED BY/STORED IN	
LABORATORY SECTION	RECEIVED BY	TITLE		DATE/TIME	
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY		DATE/TIME	

CH2M Hill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		FIG-046-092	PAGE 1 OF 1
COLLECTOR	CHRIS FULTON CHPRC	COMPANY CONTACT	SUMNER, LC	TELEPHONE NO.	376-3922
SAMPLING LOCATION	289-17A, Post TC991X Resin Tanks, Valve V06-Y22	PROJECT DESIGNATION	200W Pump & Treat - Treatment Plant Compliance Sampling - Water		
ICE CHEST NO.	N/A	FIELD LOGBOOK NO.	HNF-A-1481-15	ACTUAL SAMPLE DEPTH	N/A
SHIPPED TO	TestAmerica Incorporated, Richland	OFFSITE PROPERTY NO.	N/A		
MATRIX*	POSSIBLE SAMPLE HAZARDS/ REMARKS *Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR/JATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1. N/A	PRESERVATION	Cool <=6C	PROJECT COORDINATOR	SUMNER, LC
A=Air		HOLDING TIME	24 Hours	PRICE CODE	7C
DL=Drum		TYPE OF CONTAINER	ag	AIR QUALITY	<input type="checkbox"/> 15 Days / 15 Days
Liquids		NO. OF CONTAINER(S)	1	METHOD OF SHIPMENT	GOVERNMENT VEHICLE
DS=Drum		VOLUME	60mL	BILL OF LADING/AIR BILL NO.	N/A
Solids					
L=Liquid					
O=Oil					
S=Soil					
SE=Sediment					
T=Tissue					
V=Vegetation					
W=Water					
WT=Wipe					
X=Other					
SPECIAL HANDLING AND/OR STORAGE		SAMPLE ANALYSIS	7196 CRG: COMMON;		

B362B0	WATER	MATRIX*	SAMPLE DATE	SAMPLE TIME	
			JUL 20 2016	0850	✓

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CHAIN OF POSSESSION		SIGN/ PRINT NAMES		SPECIAL INSTRUCTIONS	
RELINQUISHED BY/REMOVED FROM	CHRIS FULTON CHPRC	DATE/TIME	JUL 20 2016	0942	RECEIVED BY/STORED IN
	Janelle Zinke CHPRC	DATE/TIME	JUL 20 2016	0942	RECEIVED BY/STORED IN
	Janelle Zinke CHPRC	DATE/TIME	JUL 20 2016	1450	RECEIVED BY/STORED IN
	J. Bock, TRVU 20 2016	DATE/TIME	JUL 20 2016	1450	RECEIVED BY/STORED IN
RELINQUISHED BY/REMOVED FROM		DATE/TIME			RECEIVED BY/STORED IN
RELINQUISHED BY/REMOVED FROM		DATE/TIME			RECEIVED BY/STORED IN
RELINQUISHED BY/REMOVED FROM		DATE/TIME			RECEIVED BY/STORED IN
RELINQUISHED BY/REMOVED FROM		DATE/TIME			RECEIVED BY/STORED IN
LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME		
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD		DATE/TIME		

July 29, 2016

CH2MHill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		FIG-046-058	PAGE 1 OF 1
COLLECTOR	CHRIS FULTON CHPRC	COMPANY CONTACT	SUMNER, LC 376-3922	PROJECT COORDINATOR	SUMNER, LC
SAMPLING LOCATION	289-T, Effluent Tank, Valve V07-Y80 <b>D*</b>	PROJECT DESIGNATION	200W Pump & Treat - Treatment Plant Compliance Sampling - Water	SAF NO.	F16-046
ICE CHEST NO.	N/A	FIELD LOGBOOK NO.	HNF-N-491-15	COA	303700
SHIPPED TO	TestAmerica Incorporated, Richland	OFFSITE PROPERTY NO.	N/A	BILL OF LADING/AIR BILL NO.	N/A
MATRIX*	<p><b>POSSIBLE SAMPLE HAZARDS/ REMARKS</b></p> <p>*Contains Radioactive Material at concentrations that are not be regulated for transportation per 49 CFR/ATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1. N/A</p>	PRESERVATION	Cool <=6C	PRICE CODE	7C
A=Air		HOLDING TIME	24 Hours	AIR QUALITY	<input type="checkbox"/>
DL=Drum		TYPE OF CONTAINER	3G	METHOD OF SHIPMENT	GOVERNMENT VEHICLE
Liquids		NO. OF CONTAINER(S)	1		<b>ORIGINAL</b>
DS=Drum		VOLUME	60mL		
Solids					
L=Liquid					
O=Oil					
S=Soil					
SE=Sediment					
T=Tissue					
V=Vegetation					
WI=Water					
WT=Wipe					
X=Other					

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	SPECIAL HANDLING AND/OR STORAGE	SAMPLE ANALYSIS
B36266	WATER	JUL 20 2016	1815		7196_CRB6: COMMON: ✓

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July 29, 2016

CHAIN OF POSSESSION		SIGN/ PRINT NAMES		SPECIAL INSTRUCTIONS	
CREATED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
CHPRC Janelle Zunker	JUL 20 2016 1110	Janelle Zunker CHPRC	JUL 20 2016 1110		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
CHPRC Janelle Zunker	JUL 20 2016 1450	J. Bock	JUL 20 2016 1450		
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		



CH2M Hill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		F16-046-052	PAGE 1 OF 1
COLLECTOR CHRIS FULTON CH2M	COMPANY CONTACT SUMNER, LC	TELEPHONE NO. 376-3922	PROJECT COORDINATOR SUMNER, LC	PRICE CODE 7C	DATA TURNAROUND 15 Days / 15 Days
SAMPLING LOCATION 289-T, Influent Tank, Valve V12-Y30	PROJECT DESIGNATION 200W Pump & Treat - Treatment Plant Compliance Sampling - Water	FIELD LOGBOOK NO. HNF-A-49115	ACTUAL SAMPLE DEPTH N/A	SAF NO. F16-046	<input type="checkbox"/>
ICE CHEST NO. N/A	OFFSITE PROPERTY NO. N/A	COA 303700	BILL OF LADING/AIR BILL NO. N/A	METHOD OF SHIPMENT GOVERNMENT VEHICLE	<b>ORIGINAL</b>
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=Water X=Other	*Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR/DATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1. N/A	PRESERVATION	Cool <=6C
		HOLDING TIME	24 Hours
		TYPE OF CONTAINER	ag
		NO. OF CONTAINER(S)	1
SPECIAL HANDLING AND/OR STORAGE		VOLUME	60ml
		SAMPLE ANALYSIS	7196, CR6; COMMON;
SAMPLE NO. B36260	MATRIX* WATER	SAMPLE DATE JUL 20 2016	SAMPLE TIME 1158

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July 29, 2016

CHAIN OF POSSESSION	SIGN/ PRINT NAMES	SPECIAL INSTRUCTIONS
RELINQUISHED BY/REMOVED FROM CHRIS FULTON CH2M	RECEIVED BY/STORED IN JUL 20 2016 1240 RECEIVED BY/STORED IN JUL 20 2016 1240	
RELINQUISHED BY/REMOVED FROM CHRIS FULTON CH2M	RECEIVED BY/STORED IN JUL 20 2016 1450 RECEIVED BY/STORED IN JUL 20 2016 1450	
RELINQUISHED BY/REMOVED FROM	RECEIVED BY/STORED IN	
RELINQUISHED BY/REMOVED FROM	RECEIVED BY/STORED IN	
RELINQUISHED BY/REMOVED FROM	RECEIVED BY/STORED IN	
RELINQUISHED BY/REMOVED FROM	RECEIVED BY/STORED IN	
RELINQUISHED BY/REMOVED FROM	RECEIVED BY/STORED IN	
LABORATORY SECTION	RECEIVED BY	TITLE
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DATE/TIME

PRINTED ON 6/22/2016

FSR ID = FSR33502

TRVL NUM = TRVL-16-181

A-6003-618 (REV 2)

CH2M Hill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		F16-046-093	PAGE 1 OF 1	
COLLECTOR	CHRIS FULTON CHPRC	COMPANY CONTACT	SUMNER, LC	TELEPHONE NO.	376-3922	
SAMPLING LOCATION	289-1A, Post T-991X Resin Tanks, Valve V06-Y22	PROJECT DESIGNATION	200W Pump & Treat - Treatment Plant Compliance Sampling - Water			
ICE CHEST NO.	N/A	FIELD LOGBOOK NO.	HNF-N-491-15	ACTUAL SAMPLE DEPTH	N/A	
SHIPPED TO	Testamerica Incorporated, Richland	OFFSITE PROPERTY NO.	N/A			
MATRIX*	<p><b>POSSIBLE SAMPLE HAZARDS/ REMARKS</b></p> <p>*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</p> <p>A=Air DL=Drum L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Water X=Other</p>	PRESERVATION	Cool <=6C	PROJECT COORDINATOR	SUMNER, LC	
SPECIAL HANDLING AND/OR STORAGE		HOLDING TIME	48 Hours	PRICE CODE	7C	DATA TURNAROUND 15 Days / 15 Days
		TYPE OF CONTAINER	P	AIR QUALITY	<input type="checkbox"/>	METHOD OF SHIPMENT GOVERNMENT VEHICLE <b>ORIGINAL</b>
		NO. OF CONTAINER(S)	1	BILL OF LADING/AIR BILL NO.	N/A	
		VOLUME	250mL	SEE ITEM (1) IN SPECIAL INSTRUCTIONS		

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	REMARKS
B362B1	WATER	JUL 20 2016	0850	3531 W01281

July 29, 2016

CHAIN OF POSSESSION	SIGN / PRINT NAMES	SPECIAL INSTRUCTIONS
RELINQUISHED BY/REMOVED FROM CHRIS FULTON CHPRC	RECEIVED BY/STORED IN Janelle Zunker CHPRC	(1) 300.0_ANIONS_IC: COMMON; 300.0_ANIONS_IC: COMMON (Add-on) {Bromide};
RELINQUISHED BY/REMOVED FROM Janelle Zunker CHPRC	RECEIVED BY/STORED IN Janelle Zunker CHPRC	
RELINQUISHED BY/REMOVED FROM	RECEIVED BY/STORED IN	
RELINQUISHED BY/REMOVED FROM	RECEIVED BY/STORED IN	
RELINQUISHED BY/REMOVED FROM	RECEIVED BY/STORED IN	

LABORATORY SECTION RECEIVED BY

FINAL SAMPLE DISPOSITION DISPOSAL METHOD

PRINTED ON 6/22/2016 FSR ID = FSR33513 TRVL NUM = TRVL-16-181 A-6003-618 (REV 2)

CH2M Hill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		FL6-046-083	PAGE 1 OF 1
COLLECTOR <b>CHRIS FULTON</b> CHPRC	COMPANY CONTACT SUMNER, LC	TELEPHONE NO. 376-3922	PROJECT COORDINATOR SUMNER, LC	PRICE CODE 7C	DATA TURNAROUND 15 Days / 15 Days
SAMPLING LOCATION 289-TA, Pre TC991X Resin Tanks, Valve V05-Y20	PROJECT DESIGNATION 200W Pump & Treat - Treatment Plant Compliance Sampling - Water	FIELD LOGBOOK NO. HNF-N-42/15	ACTUAL SAMPLE DEPTH N/A	SAF NO. F16-046	AIR QUALITY <input type="checkbox"/>
ICE CHEST NO. N/A	OFFSITE PROPERTY NO. N/A	COA 303700	METHOD OF SHIPMENT GOVERNMENT VEHICLE	<b>ORIGINAL</b>	
SHIPPED TO TestAmerica Incorporated, Richland	PRESERVATION Cool <=6C		BILL OF LADING/AIR BILL NO. N/A		

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	SPECIAL HANDLING AND/OR STORAGE	
				NO. OF CONTAINER(S)	VOLUME
B36291	WATER	JUL 20 2016	0920	1	250mL
				SEE ITEM (1) IN SPECIAL INSTRUCTIONS	

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July 29, 2016

CHAIN OF POSSESSION	SIGN/ PRINT NAMES	SPECIAL INSTRUCTIONS
RELINQUISHED BY/REMOVED FROM <b>CHRIS FULTON</b>	RECEIVED BY/STORED IN <i>[Signature]</i> Janelle Zunkel CHPRC	(1) 300.0_ANIONS_IC: COMMON; 300.0_ANIONS_IC: COMMON (Add-on) {Bromide};
RELINQUISHED BY/REMOVED FROM Janelle Zunkel CHPRC	RECEIVED BY/STORED IN <i>[Signature]</i> J. Bock, TARI	
RELINQUISHED BY/REMOVED FROM	RECEIVED BY/STORED IN	
RELINQUISHED BY/REMOVED FROM	RECEIVED BY/STORED IN	
RELINQUISHED BY/REMOVED FROM	RECEIVED BY/STORED IN	
RELINQUISHED BY/REMOVED FROM	RECEIVED BY/STORED IN	
RELINQUISHED BY/REMOVED FROM	RECEIVED BY/STORED IN	

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

CH2MHill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		FIG-046-070	PAGE 1 OF 1	
COLLECTOR	CHRIS FULTON CHPRC	COMPANY CONTACT	SUNNER, LC	TELEPHONE NO.	376-3922	
SAMPLING LOCATION	289-TA, Pre UDX Resin Column, Valve V25-Y11A1	PROJECT DESIGNATION	200W Pump & Treat - Treatment Plant Compliance Sampling - Water			
ICE CHEST NO.	N/A	FIELD LOGBOOK NO.	HNF-N-451-15	ACTUAL SAMPLE DEPTH	N/A	
SHIPPED TO	TestAmerica Incorporated, Richland	OFFSITE PROPERTY NO.	N/A			
MATRIX*	<p><b>POSSIBLE SAMPLE HAZARDS/ REMARKS</b></p> <p>*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</p> <p>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</p>	<p><b>PRESERVATION</b></p> <p>Cool &lt;=6C</p>	<p><b>HOLDING TIME</b></p> <p>48 Hours</p>	<p><b>PROJECT COORDINATOR</b></p> <p>SUNNER, LC</p>	<p><b>PRICE CODE</b></p> <p>7C</p>	<p><b>DATA TURNAROUND</b></p> <p>15 Days / 15 Days</p>
SPECIAL HANDLING AND/OR STORAGE		NO. OF CONTAINER(S)	1	SAF NO.	FL6-046	
		VOLUME	250ml	COA	303700	
		SEE ITEM (1) IN SPECIAL INSTRUCTIONS		BILL OF LADING/AIR BILL NO.	N/A	
SAMPLE NO.	WATER	SAMPLE DATE	JUL 20 2016	SAMPLE TIME	0627	

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July 29, 2016

CHAIN OF POSSESSION	SIGN/ PRINT NAMES	SPECIAL INSTRUCTIONS
RELINQUISHED BY/REMOVED FROM	CHRIS FULTON	(1) 300.0 ANIONS_IC: COMMON; 300.0 ANIONS_IC: COMMON (Add-on) {Bromide};
DATE/TIME	JUL 20 2016 0942	
RECEIVED BY/STORED IN	Janelle Zunker	
DATE/TIME	JUL 20 2016 0942	
RELINQUISHED BY/REMOVED FROM	Janelle Zunker	
DATE/TIME	JUL 20 2016 1450	
RECEIVED BY/STORED IN	J. Bock, TAMU	
DATE/TIME	JUL 20 2016 1450	
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

CH2M Hill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		F16-046-079	PAGE 1 OF 1
COLLECTOR	CHRIS FUJTON CHPRC	COMPANY CONTACT	SUMNER, LC 376-3922	PROJECT COORDINATOR	SUMNER, LC
SAMPLING LOCATION	289-7A, Post-UX Resin Column C3, V03-Y11A3	PROJECT DESIGNATION	200W Pump & Treat - Treatment Plant Compliance Sampling - Water	PRICE CODE	7C
ICE CHEST NO.	N/A	FIELD LOGBOOK NO.	HMF-N 1491-15	AIR QUALITY	<input type="checkbox"/> 15 Days / 15 Days
SHIPPED TO	TestAmerica Incorporated, Richland	OFFSITE PROPERTY NO.	N/A	METHOD OF SHIPMENT	GOVERNMENT VEHICLE <b>ORIGINAL</b>
MATRIX*	<p><b>POSSIBLE SAMPLE HAZARDS/ REMARKS</b></p> <p>*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</p> <p>A=Air DL=Drum Liquide DS=Drum Solids L=Liquid O=Oil S=Soil SF=Sludgment T=Tissue V=Vegetation W=Water WI=Wipe X=Other</p>	<p><b>PRESERVATION</b></p> <p>Cool &lt;=6C</p>	<p><b>HOLDING TIME</b></p> <p>48 Hours</p>	<p><b>TYPE OF CONTAINER</b></p> <p>P</p>	<p><b>NO. OF CONTAINER(S)</b></p> <p>1</p>
					<p><b>VOLUME</b></p> <p>250ml</p>
					<p><b>SAMPLE ANALYSIS</b></p> <p>SEE ITEM (1) IN SPECIAL INSTRUCTIONS</p>

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B36287	WATER	JUL 20 2016	0834	✓

3531  
WC1281

July 29 2016

CHAIN OF POSSESSION	SIGN/ PRINT NAMES	SPECIAL INSTRUCTIONS
RELINQUISHED BY/REMOVED FROM CHRIS FUJTON CHPRC	RECEIVED BY/STORED IN Janelle Zinke CHPRC	(1) 300.0 ANIONS_IC: COMMON; 300.0 ANIONS_IC: COMMON (Add-on) {Bromide};
RELINQUISHED BY/REMOVED FROM Janelle Zinke CHPRC	RECEIVED BY/STORED IN J. Bock, TAR	
RELINQUISHED BY/REMOVED FROM	RECEIVED BY/STORED IN	
RELINQUISHED BY/REMOVED FROM	RECEIVED BY/STORED IN	
RELINQUISHED BY/REMOVED FROM	RECEIVED BY/STORED IN	
RELINQUISHED BY/REMOVED FROM	RECEIVED BY/STORED IN	
RELINQUISHED BY/REMOVED FROM	RECEIVED BY/STORED IN	
LABORATORY SECTION	RECEIVED BY	TITLE
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DATE/TIME

CH2M Hill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F16-046-074	PAGE 1 OF 1
COLLECTOR CHRIS FULTON CHPRC	COMPANY CONTACT SUMNER, LC	TELEPHONE NO. 376-3922	PROJECT COORDINATOR SUMNER, LC	PRICE CODE 7C	DATA TURNAROUND 15 Days / 15 Days	
SAMPLING LOCATION 289-TA, Post UX Resin Column CI, Valve V03-Y11A1	PROJECT DESIGNATION 200W Pump & Treat - Treatment Plant Compliance Sampling - Water	FIELD LOGBOOK NO. HNF-N 291-15	ACTUAL SAMPLE DEPTH N/A	SAF NO. F16-046	<input type="checkbox"/>	ORIGINAL
ICE CHEST NO. N/A	OFFSITE PROPERTY NO. N/A	ACTUAL SAMPLE DEPTH N/A	COA 303700	METHOD OF SHIPMENT GOVERNMENT VEHICLE		
SHIPPED TO TestAmerica Incorporated, Richland			BILL OF LADING/AIR BILL NO. N/A			

MATRIX*	POSSIBLE SAMPLE HAZARDS/ REMARKS	PRESERVATION	HOLDING TIME	TYPE OF CONTAINER	NO. OF CONTAINER(S)	VOLUME	SAMPLE ANALYSIS
A=Air DI=Drum L=Liquid DS=Drum S=Soil SE=Seiment 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/JATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1. N/A	Cool <=6C	48 Hours	P	1	250ml	SEE ITEM (I) IN SPECIAL INSTRUCTIONS
B36282	WATER						

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B36282	WATER	JUL 20 2016	0843

July 29 2016

3531  
20161281

CHAIN OF POSSESSION	SIGN/ PRINT NAMES	SPECIAL INSTRUCTIONS
RELINQUISHED BY/REMOVED FROM CHRIS FULTON CHPRC	RECEIVED BY/STORED IN Janelle Zanker CHPRC	(1) 300.0 ANIONS_IC: COMMON; 300.0 ANIONS_IC: COMMON (Add-on) {Bromide};
RELINQUISHED BY/REMOVED FROM Janelle Zanker CHPRC	RECEIVED BY/STORED IN J. Back, TAKL	
RELINQUISHED BY/REMOVED FROM	RECEIVED BY/STORED IN	
RELINQUISHED BY/REMOVED FROM	RECEIVED BY/STORED IN	
RELINQUISHED BY/REMOVED FROM	RECEIVED BY/STORED IN	
RELINQUISHED BY/REMOVED FROM	RECEIVED BY/STORED IN	
RELINQUISHED BY/REMOVED FROM	RECEIVED BY/STORED IN	
RELINQUISHED BY/REMOVED FROM	RECEIVED BY/STORED IN	
LABORATORY SECTION	RECEIVED BY	TITLE
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DATE/TIME

CH2Mhill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		F16-046-059	PAGE 1 OF 1
COLLECTOR	CHRIS FULTON CHPRC	COMPANY CONTACT	SUMNER, LC	TELEPHONE NO.	376-3922
SAMPLING LOCATION	289-T, Effluent Tank, Valve V07-Y802*	PROJECT DESIGNATION	200W Pump & Treat - Treatment Plant Compliance Sampling - Water	PROJECT COORDINATOR	SUMNER, LC
ICE CHEST NO.	N/A	FIELD LOGBOOK NO.	HNF-N-44-15	SAF NO.	F16-046
SHIPPED TO	TestAmerica Incorporated, Richland	ACTUAL SAMPLE DEPTH	N/A	COA	303700
		OFFSITE PROPERTY NO.	N/A	BILL OF LADING/AIR BILL NO.	N/A
		PRESERVATION	Cool <=6C	PRICE CODE	7C
		HOLDING TIME	48 Hours	AIR QUALITY	<input type="checkbox"/>
		TYPE OF CONTAINER	P	METHOD OF SHIPMENT	GOVERNMENT VEHICLE
		NO. OF CONTAINER(S)	1		<b>ORIGINAL</b>
		VOLUME	250ml		
		SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS		

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	REMARKS
B36267	WATER	JUL 20 2016	10:15	3531 W061281

July 29, 2016

CHAIN OF POSSESSION	SIGN/ PRINT NAMES	SPECIAL INSTRUCTIONS
REMOVED BY/REMOVED FROM CHRIS FULTON	RECEIVED BY/STORED IN JUL 20 2016 11:00 RECEIVED BY/STORED IN JUL 20 2016 11:00	(1) 300.0_ANIONS_IC: COMMON; 300.0_ANIONS_IC: COMMON (Add-on) {Bromide};
REMOVED BY/REMOVED FROM Lastest REMOVED BY/REMOVED FROM JUL 20 2016 14:50 RECEIVED BY/STORED IN J. Bock, TAPJUL 20 2016 14:50	RECEIVED BY/STORED IN RECEIVED BY/STORED IN RECEIVED BY/STORED IN RECEIVED BY/STORED IN	
REMOVED BY/REMOVED FROM	RECEIVED BY/STORED IN	
REMOVED BY/REMOVED FROM	RECEIVED BY/STORED IN	
REMOVED BY/REMOVED FROM	RECEIVED BY/STORED IN	
REMOVED BY/REMOVED FROM	RECEIVED BY/STORED IN	
REMOVED BY/REMOVED FROM	RECEIVED BY/STORED IN	

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

PRINTED ON 6/22/2016 FSR ID = FSR33503 TRVL NUM = TRVL-16-181 A-6003-618 (REV 2)

CH2MHill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		F16-046-053	PAGE 1 OF 1
COLLECTOR CHRIS FULTON CHPRC	COMPANY CONTACT SUMNER, LC	TELEPHONE NO. 376-3922	PROJECT COORDINATOR SUMNER, LC	PRICE CODE 7C	DATA TURNAROUND 15 Days / 15 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-141.5	ACTUAL SAMPLE DEPTH N/A	SAF NO. F16-046	AIR QUALITY <input type="checkbox"/>
ICE CHEST NO. N/A	OFFSITE PROPERTY NO. N/A	NO. OF CONTAINER(S) 1	VOLUME 250ml	COA 303700	METHOD OF SHIPMENT GOVERNMENT VEHICLE <b>ORIGINAL</b>
SHIPPED TO TestAmerica Incorporated, Richland	PRESERVATION Cool <=6C		HOLDING TIME 48 Hours	BILL OF LADING/AIR BILL NO. N/A	

MATRIX* A=Air DL=Drum L=Liquid DS=Drum S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WF=Wilpe X=Other	POSSIBLE SAMPLE HAZARDS/ REMARKS *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. N/A
SPECIAL HANDLING AND/OR STORAGE	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B36261	WATER	JUL 20 2016	1158

3531  
wsc1281

July 29, 2016

CHAIN OF POSSESSION	SIGN/ PRINT NAMES	SPECIAL INSTRUCTIONS
RELINQUISHED BY/REMOVED FROM FULTON	DATE/TIME JUL 20 2016 1240	RECEIVED BY/STORED IN J. Bock, TARU
RELINQUISHED BY/REMOVED FROM PRC	DATE/TIME JUL 20 2016 1450	RECEIVED BY/STORED IN J. Bock, TARU
RELINQUISHED BY/REMOVED FROM Lobby Wash	DATE/TIME JUL 20 2016 1450	RECEIVED BY/STORED IN J. Bock, TARU
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN

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

July 29, 2016  
Detection Summary

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

TestAmerica Job ID: 300-3531-1  
SDG: WC1281

**Client Sample ID: B36290**

**Lab Sample ID: 300-3531-1**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.029		0.0040	0.0015	mg/L	1		7196A	Total/NA

**Client Sample ID: B36277**

**Lab Sample ID: 300-3531-2**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.0043		0.0040	0.0015	mg/L	1		7196A	Total/NA

**Client Sample ID: B362B0**

**Lab Sample ID: 300-3531-3**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.021		0.0040	0.0015	mg/L	1		7196A	Total/NA

**Client Sample ID: B36266**

**Lab Sample ID: 300-3531-4**

No Detections.

**Client Sample ID: B36260**

**Lab Sample ID: 300-3531-5**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.017		0.0040	0.0015	mg/L	1		7196A	Total/NA

**Client Sample ID: B362B1**

**Lab Sample ID: 300-3531-6**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	24	D	0.40	0.20	mg/L	2		300.0	Total/NA
Nitrate as N	41	D	0.56	0.28	mg/L	20		300.0	Total/NA
Fluoride	0.39	D	0.10	0.050	mg/L	2		300.0	Total/NA
Sulfate	87	D	0.50	0.25	mg/L	2		300.0	Total/NA
Bromide	0.24	B D	0.25	0.13	mg/L	2		300.0	Total/NA

**Client Sample ID: B36291**

**Lab Sample ID: 300-3531-7**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	23	D	0.40	0.20	mg/L	2		300.0	Total/NA
Nitrate as N	40	D	0.56	0.28	mg/L	20		300.0	Total/NA
Fluoride	0.39	D	0.10	0.050	mg/L	2		300.0	Total/NA
Sulfate	58	D	0.50	0.25	mg/L	2		300.0	Total/NA
Bromide	0.25	D	0.25	0.13	mg/L	2		300.0	Total/NA

**Client Sample ID: B36278**

**Lab Sample ID: 300-3531-8**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	18	D	0.40	0.20	mg/L	2		300.0	Total/NA
Nitrate as N	53	D	1.4	0.70	mg/L	50		300.0	Total/NA
Fluoride	0.32	D	0.10	0.050	mg/L	2		300.0	Total/NA
Sulfate	92	D	0.50	0.25	mg/L	2		300.0	Total/NA
Bromide	0.21	B D	0.25	0.13	mg/L	2		300.0	Total/NA

**Client Sample ID: B36287**

**Lab Sample ID: 300-3531-9**

This Detection Summary does not include radiochemical test results.

TestAmerica Richland

~~July 29, 2016~~  
**Detection Summary**

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

TestAmerica Job ID: 300-3531-1  
 SDG: WC1281

**Client Sample ID: B36287 (Continued)**

**Lab Sample ID: 300-3531-9**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	32	D	0.40	0.20	mg/L	2		300.0	Total/NA
Nitrate as N	47	D	1.4	0.70	mg/L	50		300.0	Total/NA
Fluoride	0.28	D	0.10	0.050	mg/L	2		300.0	Total/NA
Sulfate	95	D	0.50	0.25	mg/L	2		300.0	Total/NA
Bromide	0.29	D	0.25	0.13	mg/L	2		300.0	Total/NA

**Client Sample ID: B36282**

**Lab Sample ID: 300-3531-10**

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	46	D	1.4	0.70	mg/L	50		300.0	Total/NA
Fluoride	0.31	D	0.10	0.050	mg/L	2		300.0	Total/NA
Sulfate	95	D	0.50	0.25	mg/L	2		300.0	Total/NA
Bromide	0.27	D	0.25	0.13	mg/L	2		300.0	Total/NA

**Client Sample ID: B36267**

**Lab Sample ID: 300-3531-11**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	47	D	0.40	0.20	mg/L	2		300.0	Total/NA
Nitrate as N	8.0	D	0.056	0.028	mg/L	2		300.0	Total/NA
Fluoride	0.37	D	0.10	0.050	mg/L	2		300.0	Total/NA
Nitrite as N	0.60	D	0.076	0.038	mg/L	2		300.0	Total/NA
Sulfate	94	D	0.50	0.25	mg/L	2		300.0	Total/NA
Bromide	0.21	B D	0.25	0.13	mg/L	2		300.0	Total/NA

**Client Sample ID: B36261**

**Lab Sample ID: 300-3531-12**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	25	D	0.40	0.20	mg/L	2		300.0	Total/NA
Nitrate as N	29	D	0.56	0.28	mg/L	20		300.0	Total/NA
Fluoride	0.34	D	0.10	0.050	mg/L	2		300.0	Total/NA
Sulfate	63	D	0.50	0.25	mg/L	2		300.0	Total/NA
Bromide	0.23	B D	0.25	0.13	mg/L	2		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Richland

July 29, 2016  
Client Sample Results

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

TestAmerica Job ID: 300-3531-1  
SDG: WC1281

**Client Sample ID: B36290**

**Lab Sample ID: 300-3531-1**

Date Collected: 07/20/16 09:20

Matrix: Water

Date Received: 07/20/16 14:50

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.029		0.0040	0.0015	mg/L			07/20/16 18:17	1

**Client Sample ID: B36277**

**Lab Sample ID: 300-3531-2**

Date Collected: 07/20/16 08:27

Matrix: Water

Date Received: 07/20/16 14:50

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.0043		0.0040	0.0015	mg/L			07/20/16 18:17	1

**Client Sample ID: B362B0**

**Lab Sample ID: 300-3531-3**

Date Collected: 07/20/16 08:50

Matrix: Water

Date Received: 07/20/16 14:50

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.021		0.0040	0.0015	mg/L			07/20/16 18:20	1

**Client Sample ID: B36266**

**Lab Sample ID: 300-3531-4**

Date Collected: 07/20/16 10:15

Matrix: Water

Date Received: 07/20/16 14:50

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.0015	U	0.0040	0.0015	mg/L			07/20/16 18:20	1

**Client Sample ID: B36260**

**Lab Sample ID: 300-3531-5**

Date Collected: 07/20/16 11:58

Matrix: Water

Date Received: 07/20/16 14:50

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.017		0.0040	0.0015	mg/L			07/20/16 18:20	1

**Client Sample ID: B362B1**

**Lab Sample ID: 300-3531-6**

Date Collected: 07/20/16 08:50

Matrix: Water

Date Received: 07/20/16 14:50

**Method: 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	24	D	0.40	0.20	mg/L			07/20/16 19:59	2
Nitrate as N	41	D	0.56	0.28	mg/L			07/20/16 23:17	20
Fluoride	0.39	D	0.10	0.050	mg/L			07/20/16 19:59	2
Nitrite as N	0.038	U D	0.076	0.038	mg/L			07/20/16 19:59	2
Sulfate	87	D	0.50	0.25	mg/L			07/20/16 19:59	2
Bromide	0.24	B D	0.25	0.13	mg/L			07/20/16 19:59	2

TestAmerica Richland

July 29, 2016  
Client Sample Results

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

TestAmerica Job ID: 300-3531-1  
SDG: WC1281

**Client Sample ID: B36291**  
Date Collected: 07/20/16 09:20  
Date Received: 07/20/16 14:50

**Lab Sample ID: 300-3531-7**  
Matrix: Water

**Method: 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	23	D	0.40	0.20	mg/L			07/20/16 20:14	2
Nitrate as N	40	D	0.56	0.28	mg/L			07/20/16 23:32	20
Fluoride	0.39	D	0.10	0.050	mg/L			07/20/16 20:14	2
Nitrite as N	0.038	U D	0.076	0.038	mg/L			07/20/16 20:14	2
Sulfate	58	D	0.50	0.25	mg/L			07/20/16 20:14	2
Bromide	0.25	D	0.25	0.13	mg/L			07/20/16 20:14	2

**Client Sample ID: B36278**  
Date Collected: 07/20/16 08:27  
Date Received: 07/20/16 14:50

**Lab Sample ID: 300-3531-8**  
Matrix: Water

**Method: 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	18	D	0.40	0.20	mg/L			07/20/16 20:29	2
Nitrate as N	53	D	1.4	0.70	mg/L			07/20/16 23:47	50
Fluoride	0.32	D	0.10	0.050	mg/L			07/20/16 20:29	2
Nitrite as N	0.038	U D	0.076	0.038	mg/L			07/20/16 20:29	2
Sulfate	92	D	0.50	0.25	mg/L			07/20/16 20:29	2
Bromide	0.21	B D	0.25	0.13	mg/L			07/20/16 20:29	2

**Client Sample ID: B36287**  
Date Collected: 07/20/16 08:34  
Date Received: 07/20/16 14:50

**Lab Sample ID: 300-3531-9**  
Matrix: Water

**Method: 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	32	D	0.40	0.20	mg/L			07/20/16 20:45	2
Nitrate as N	47	D	1.4	0.70	mg/L			07/21/16 00:33	50
Fluoride	0.28	D	0.10	0.050	mg/L			07/20/16 20:45	2
Nitrite as N	0.038	U D	0.076	0.038	mg/L			07/20/16 20:45	2
Sulfate	95	D	0.50	0.25	mg/L			07/20/16 20:45	2
Bromide	0.29	D	0.25	0.13	mg/L			07/20/16 20:45	2

**Client Sample ID: B36282**  
Date Collected: 07/20/16 08:43  
Date Received: 07/20/16 14:50

**Lab Sample ID: 300-3531-10**  
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			07/20/16 21:30	2
Nitrate as N	46	D	1.4	0.70	mg/L			07/21/16 00:49	50
Fluoride	0.31	D	0.10	0.050	mg/L			07/20/16 21:30	2
Nitrite as N	0.038	U D	0.076	0.038	mg/L			07/20/16 21:30	2
Sulfate	95	D	0.50	0.25	mg/L			07/20/16 21:30	2
Bromide	0.27	D	0.25	0.13	mg/L			07/20/16 21:30	2

TestAmerica Richland

July 29, 2016  
Client Sample Results

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

TestAmerica Job ID: 300-3531-1  
SDG: WC1281

**Client Sample ID: B36267**  
Date Collected: 07/20/16 10:15  
Date Received: 07/20/16 14:50

**Lab Sample ID: 300-3531-11**  
Matrix: Water

**Method: 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	47	D	0.40	0.20	mg/L			07/20/16 21:45	2
Nitrate as N	8.0	D	0.056	0.028	mg/L			07/20/16 21:45	2
Fluoride	0.37	D	0.10	0.050	mg/L			07/20/16 21:45	2
Nitrite as N	0.60	D	0.076	0.038	mg/L			07/20/16 21:45	2
Sulfate	94	D	0.50	0.25	mg/L			07/20/16 21:45	2
Bromide	0.21	B D	0.25	0.13	mg/L			07/20/16 21:45	2

**Client Sample ID: B36261**  
Date Collected: 07/20/16 11:58  
Date Received: 07/20/16 14:50

**Lab Sample ID: 300-3531-12**  
Matrix: Water

**Method: 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	25	D	0.40	0.20	mg/L			07/20/16 22:01	2
Nitrate as N	29	D	0.56	0.28	mg/L			07/21/16 01:19	20
Fluoride	0.34	D	0.10	0.050	mg/L			07/20/16 22:01	2
Nitrite as N	0.038	U D	0.076	0.038	mg/L			07/20/16 22:01	2
Sulfate	63	D	0.50	0.25	mg/L			07/20/16 22:01	2
Bromide	0.23	B D	0.25	0.13	mg/L			07/20/16 22:01	2

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

TestAmerica Job ID: 300-3531-1  
SDG: WC1281

**Method: 300.0 - Anions, Ion Chromatography**

Lab Sample ID: MB 300-4964/5  
Matrix: Water  
Analysis Batch: 4964

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			07/20/16 18:28	1
Nitrite as N	0.019	U	0.038	0.019	mg/L			07/20/16 18:28	1

Lab Sample ID: LCS 300-4964/6  
Matrix: Water  
Analysis Batch: 4964

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	2.29		mg/L		101	80 - 120
Nitrite as N	3.04	3.11		mg/L		102	80 - 120

Lab Sample ID: 300-3529-A-3 MS  
Matrix: Water  
Analysis Batch: 4964

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	6.3	D	0.452	6.69	D	mg/L		89	75 - 125
Nitrite as N	0.038	U D	0.609	0.533	D	mg/L		88	75 - 125

Lab Sample ID: 300-3529-A-3 DU  
Matrix: Water  
Analysis Batch: 4964

Client Sample ID: Duplicate  
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Nitrate as N	6.3	D	6.21	D	mg/L		1	20
Nitrite as N	0.038	U D	0.038	U D	mg/L		NC	20

Lab Sample ID: MB 300-4965/5  
Matrix: Water  
Analysis Batch: 4965

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			07/20/16 18:28	1
Fluoride	0.025	U	0.050	0.025	mg/L			07/20/16 18:28	1
Sulfate	0.13	U	0.25	0.13	mg/L			07/20/16 18:28	1
Bromide	0.063	U	0.13	0.063	mg/L			07/20/16 18:28	1

Lab Sample ID: LCS 300-4965/6  
Matrix: Water  
Analysis Batch: 4965

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	16.0		mg/L		100	80 - 120
Fluoride	4.00	3.99		mg/L		100	80 - 120
Sulfate	20.0	19.9		mg/L		100	80 - 120
Bromide	10.0	10.1		mg/L		101	80 - 120

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

TestAmerica Job ID: 300-3531-1  
SDG: WC1281

**Method: 300.0 - Anions, Ion Chromatography (Continued)**

Lab Sample ID: 300-3529-A-3 MS  
Matrix: Water  
Analysis Batch: 4965

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

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.
	Result	Qualifier		Result	Qualifier				
Chloride	22	D	3.20	25.3	D	mg/L		94	75 - 125
Fluoride	0.44	D	0.800	1.21	D	mg/L		97	75 - 125
Bromide	0.28	D	2.00	1.98	D	mg/L		85	75 - 125

Lab Sample ID: 300-3529-A-3 MS  
Matrix: Water  
Analysis Batch: 4965

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

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.
	Result	Qualifier		Result	Qualifier				
Sulfate	100	D	40.0	137	D	mg/L		88	75 - 125

Lab Sample ID: 300-3529-A-3 DU  
Matrix: Water  
Analysis Batch: 4965

Client Sample ID: Duplicate  
Prep Type: Total/NA

Analyte	Sample	Sample	DU		Unit	D	RPD	RPD	Limit
	Result	Qualifier	Result	Qualifier					
Chloride	22	D	22.1	D	mg/L		1	20	
Fluoride	0.44	D	0.431	D	mg/L		0.9	20	
Bromide	0.28	D	0.282	D	mg/L		0.9	20	

Lab Sample ID: 300-3529-A-3 DU  
Matrix: Water  
Analysis Batch: 4965

Client Sample ID: Duplicate  
Prep Type: Total/NA

Analyte	Sample	Sample	DU		Unit	D	RPD	RPD	Limit
	Result	Qualifier	Result	Qualifier					
Sulfate	100	D	101	D	mg/L		2	20	

**Method: 7196A - Chromium, Hexavalent**

Lab Sample ID: MB 300-5013/3  
Matrix: Water  
Analysis Batch: 5013

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			07/20/16 18:07	1

Lab Sample ID: LCS 300-5013/4  
Matrix: Water  
Analysis Batch: 5013

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

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.
Cr (VI)	0.250	0.254		mg/L		101	80 - 120

Lab Sample ID: 300-3526-A-1 MS  
Matrix: Water  
Analysis Batch: 5013

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

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.
	Result	Qualifier		Result	Qualifier				
Cr (VI)	0.017		0.0500	0.0672		mg/L		101	75 - 125

TestAmerica Richland

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

TestAmerica Job ID: 300-3531-1  
SDG: WC1281

**Method: 7196A - Chromium, Hexavalent (Continued)**

Lab Sample ID: 300-3526-A-1 DU  
Matrix: Water  
Analysis Batch: 5013

Client Sample ID: Duplicate  
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Cr (VI)	0.017		0.0169		mg/L		0	20

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

July 29, 2016  
QC Association Summary

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

TestAmerica Job ID: 300-3531-1  
SDG: WC1281

**HPLC/IC**

**Analysis Batch: 4964**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
300-3531-6	B362B1	Total/NA	Water	300.0	
300-3531-6	B362B1	Total/NA	Water	300.0	
300-3531-7	B36291	Total/NA	Water	300.0	
300-3531-7	B36291	Total/NA	Water	300.0	
300-3531-8	B36278	Total/NA	Water	300.0	
300-3531-8	B36278	Total/NA	Water	300.0	
300-3531-9	B36287	Total/NA	Water	300.0	
300-3531-9	B36287	Total/NA	Water	300.0	
300-3531-10	B36282	Total/NA	Water	300.0	
300-3531-10	B36282	Total/NA	Water	300.0	
300-3531-11	B36267	Total/NA	Water	300.0	
300-3531-12	B36261	Total/NA	Water	300.0	
300-3531-12	B36261	Total/NA	Water	300.0	
MB 300-4964/5	Method Blank	Total/NA	Water	300.0	
LCS 300-4964/6	Lab Control Sample	Total/NA	Water	300.0	
300-3529-A-3 MS	Matrix Spike	Total/NA	Water	300.0	
300-3529-A-3 DU	Duplicate	Total/NA	Water	300.0	

**Analysis Batch: 4965**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
300-3531-6	B362B1	Total/NA	Water	300.0	
300-3531-7	B36291	Total/NA	Water	300.0	
300-3531-8	B36278	Total/NA	Water	300.0	
300-3531-9	B36287	Total/NA	Water	300.0	
300-3531-10	B36282	Total/NA	Water	300.0	
300-3531-11	B36267	Total/NA	Water	300.0	
300-3531-12	B36261	Total/NA	Water	300.0	
MB 300-4965/5	Method Blank	Total/NA	Water	300.0	
LCS 300-4965/6	Lab Control Sample	Total/NA	Water	300.0	
300-3529-A-3 MS	Matrix Spike	Total/NA	Water	300.0	
300-3529-A-3 MS	Matrix Spike	Total/NA	Water	300.0	
300-3529-A-3 DU	Duplicate	Total/NA	Water	300.0	
300-3529-A-3 DU	Duplicate	Total/NA	Water	300.0	

**General Chemistry**

**Analysis Batch: 5013**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
300-3531-1	B36290	Total/NA	Water	7196A	
300-3531-2	B36277	Total/NA	Water	7196A	
300-3531-3	B362B0	Total/NA	Water	7196A	
300-3531-4	B36266	Total/NA	Water	7196A	
300-3531-5	B36260	Total/NA	Water	7196A	
MB 300-5013/3	Method Blank	Total/NA	Water	7196A	
LCS 300-5013/4	Lab Control Sample	Total/NA	Water	7196A	
300-3526-A-1 MS	Matrix Spike	Total/NA	Water	7196A	
300-3526-A-1 DU	Duplicate	Total/NA	Water	7196A	

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

TestAmerica Job ID: 300-3531-1  
SDG: WC1281

**Client Sample ID: B36290**

Date Collected: 07/20/16 09:20

Date Received: 07/20/16 14:50

**Lab Sample ID: 300-3531-1**

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			5013	07/20/16 18:17	RLC	TAL RCH

**Client Sample ID: B36277**

Date Collected: 07/20/16 08:27

Date Received: 07/20/16 14:50

**Lab Sample ID: 300-3531-2**

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			5013	07/20/16 18:17	RLC	TAL RCH

**Client Sample ID: B362B0**

Date Collected: 07/20/16 08:50

Date Received: 07/20/16 14:50

**Lab Sample ID: 300-3531-3**

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			5013	07/20/16 18:20	RLC	TAL RCH

**Client Sample ID: B36266**

Date Collected: 07/20/16 10:15

Date Received: 07/20/16 14:50

**Lab Sample ID: 300-3531-4**

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			5013	07/20/16 18:20	RLC	TAL RCH

**Client Sample ID: B36260**

Date Collected: 07/20/16 11:58

Date Received: 07/20/16 14:50

**Lab Sample ID: 300-3531-5**

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	7196A		1			5013	07/20/16 18:20	RLC	TAL RCH

**Client Sample ID: B362B1**

Date Collected: 07/20/16 08:50

Date Received: 07/20/16 14:50

**Lab Sample ID: 300-3531-6**

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			4964	07/20/16 19:59	CPM	TAL RCH
Total/NA	Analysis	300.0		2			4965	07/20/16 19:59	CPM	TAL RCH
Total/NA	Analysis	300.0		20			4964	07/20/16 23:17	CPM	TAL RCH

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

TestAmerica Job ID: 300-3531-1  
SDG: WC1281

**Client Sample ID: B36291**

**Lab Sample ID: 300-3531-7**

Date Collected: 07/20/16 09:20

Matrix: Water

Date Received: 07/20/16 14:50

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			4964	07/20/16 20:14	CPM	TAL RCH
Total/NA	Analysis	300.0		2			4965	07/20/16 20:14	CPM	TAL RCH
Total/NA	Analysis	300.0		20			4964	07/20/16 23:32	CPM	TAL RCH

**Client Sample ID: B36278**

**Lab Sample ID: 300-3531-8**

Date Collected: 07/20/16 08:27

Matrix: Water

Date Received: 07/20/16 14:50

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			4964	07/20/16 20:29	CPM	TAL RCH
Total/NA	Analysis	300.0		2			4965	07/20/16 20:29	CPM	TAL RCH
Total/NA	Analysis	300.0		50			4964	07/20/16 23:47	CPM	TAL RCH

**Client Sample ID: B36287**

**Lab Sample ID: 300-3531-9**

Date Collected: 07/20/16 08:34

Matrix: Water

Date Received: 07/20/16 14:50

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			4964	07/20/16 20:45	CPM	TAL RCH
Total/NA	Analysis	300.0		2			4965	07/20/16 20:45	CPM	TAL RCH
Total/NA	Analysis	300.0		50			4964	07/21/16 00:33	CPM	TAL RCH

**Client Sample ID: B36282**

**Lab Sample ID: 300-3531-10**

Date Collected: 07/20/16 08:43

Matrix: Water

Date Received: 07/20/16 14:50

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			4964	07/20/16 21:30	CPM	TAL RCH
Total/NA	Analysis	300.0		2			4965	07/20/16 21:30	CPM	TAL RCH
Total/NA	Analysis	300.0		50			4964	07/21/16 00:49	CPM	TAL RCH

**Client Sample ID: B36267**

**Lab Sample ID: 300-3531-11**

Date Collected: 07/20/16 10:15

Matrix: Water

Date Received: 07/20/16 14:50

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			4964	07/20/16 21:45	CPM	TAL RCH
Total/NA	Analysis	300.0		2			4965	07/20/16 21:45	CPM	TAL RCH

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

TestAmerica Job ID: 300-3531-1  
SDG: WC1281

**Client Sample ID: B36261**

**Lab Sample ID: 300-3531-12**

Date Collected: 07/20/16 11:58

Matrix: Water

Date Received: 07/20/16 14:50

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			4964	07/20/16 22:01	CPM	TAL RCH
Total/NA	Analysis	300.0		2			4965	07/20/16 22:01	CPM	TAL RCH
Total/NA	Analysis	300.0		20			4964	07/21/16 01:19	CPM	TAL RCH

**Client Sample ID: Method Blank**

**Lab Sample ID: MB 300-4964/5**

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			4964	07/20/16 18:28	CPM	TAL RCH

**Client Sample ID: Method Blank**

**Lab Sample ID: MB 300-4965/5**

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			4965	07/20/16 18:28	CPM	TAL RCH

**Client Sample ID: Method Blank**

**Lab Sample ID: MB 300-5013/3**

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			5013	07/20/16 18:07	RLC	TAL RCH

**Client Sample ID: Lab Control Sample**

**Lab Sample ID: LCS 300-4964/6**

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			4964	07/20/16 18:43	CPM	TAL RCH

**Client Sample ID: Lab Control Sample**

**Lab Sample ID: LCS 300-4965/6**

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			4965	07/20/16 18:43	CPM	TAL RCH

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

TestAmerica Job ID: 300-3531-1  
SDG: WC1281

**Client Sample ID: Lab Control Sample**

**Lab Sample ID: LCS 300-5013/4**

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			5013	07/20/16 18:07	RLC	TAL RCH

**Client Sample ID: Matrix Spike**

**Lab Sample ID: 300-3526-A-1 MS**

Date Collected: 07/20/16 11:58

Matrix: Water

Date Received: 07/20/16 14:50

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			5013	07/20/16 18:07	RLC	TAL RCH

**Client Sample ID: Matrix Spike**

**Lab Sample ID: 300-3529-A-3 MS**

Date Collected: 07/20/16 11:08

Matrix: Water

Date Received: 07/20/16 14:50

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			4964	07/20/16 19:13	CPM	TAL RCH
Total/NA	Analysis	300.0		2			4965	07/20/16 19:13	CPM	TAL RCH
Total/NA	Analysis	300.0		20			4965	07/20/16 22:31	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: F16-046

TestAmerica Job ID: 300-3531-1  
SDG: WC1281

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 29, 2016  
Sample Summary

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

TestAmerica Job ID: 300-3531-1  
SDG: WC1281

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
300-3531-1	B36290	Water	07/20/16 09:20	07/20/16 14:50
300-3531-2	B36277	Water	07/20/16 08:27	07/20/16 14:50
300-3531-3	B362B0	Water	07/20/16 08:50	07/20/16 14:50
300-3531-4	B36266	Water	07/20/16 10:15	07/20/16 14:50
300-3531-5	B36260	Water	07/20/16 11:58	07/20/16 14:50
300-3531-6	B362B1	Water	07/20/16 08:50	07/20/16 14:50
300-3531-7	B36291	Water	07/20/16 09:20	07/20/16 14:50
300-3531-8	B36278	Water	07/20/16 08:27	07/20/16 14:50
300-3531-9	B36287	Water	07/20/16 08:34	07/20/16 14:50
300-3531-10	B36282	Water	07/20/16 08:43	07/20/16 14:50
300-3531-11	B36267	Water	07/20/16 10:15	07/20/16 14:50
300-3531-12	B36261	Water	07/20/16 11:58	07/20/16 14:50



July 29, 2016

Login Sample Receipt Checklist

Client: CH2M Hill Plateau Remediation Company

Job Number: 300-3531-1

SDG Number: WC1281

Login Number: 3531

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	

