

October 27, 2015

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: 300-1039-1
TestAmerica Sample Delivery Group: WC0432
Client Project/Site: CH2M Hill Chemical

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

Attn: CPP Sample Management



Authorized for release by:
10/27/2015 2:37:23 PM
Steven Campbell, Quality Assurance Assistant
steven.campbell@testamericainc.com

Designee for
Whitney Ritari, Project Manager I
(509)375-3131 ext164
whitney.ritari@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 elss than five times the MDL.



LINKS

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Qualifiers

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: CH2M Hill Chemical

TestAmerica Job ID: 300-1039-1
SDG: WC0432

Job ID: 300-1039-1

Laboratory: TestAmerica Richland

Narrative

**Job Narrative
300-1039-1**

Comments

No additional comments.

Receipt

The samples were received on 10/12/2015 2:45 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 8.1° C.

General Chemistry

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

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CH2MHill Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #
X16-001-158
Page 1 of 1

Collector	S.W. King/CHPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650
SAF No.	X16-001	Sampling Origin	Hanford Site	Purchase Order/Charge Code	303269
Project Title	100-BC-5 RI, OCTOBER 2015	Logbook No.	HNF-N-506 78/52	Ice Chest No.	N/A
Shipped To (Lab)	TestAmerica Incorporated, Richland	Method of Shipment	GOVERNMENT VEHICLE	Bill of Lading/Air Bill No.	N/A
Protocol	CERCLA	Priority:	15 Days	Offsite Property No.	N/A
POSSIBLE SAMPLE HAZARDS/REMARKS			SPECIAL INSTRUCTIONS		
*** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1			Submit deliverables & invoices to CCP Sample Management.		
Hold Time			Total Activity Exemption: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		

Sample No.	Filter	* Date	Time	No./Type Container	Sample Analysis	Holding Time	Preservative
B32V52	N	OCT 12 2015	1114	1x60-ml aG	7196_CR6: COMMON	24 Hours	Cool <=6C
B32V53	Y	W	Y	1x60-ml aG	7196_CR6: COMMON	24 Hours	Cool <=6C

October 27, 2015



300-1039 COC

WCO432
1034

Reinquished By	S.W. King/CHPRC	Print	Sign	Date/Time	1200	Received By	L.D. Wall	Print	Sign	Date/Time	1200	Matrix *
Reinquished By	LD Wall	CHPRC	CHPRC	Date/Time	1200	Received By	J. Friesz, TARL	CHPRC	CHPRC	Date/Time	1200	S = Soil
Reinquished By				Date/Time	1200	Received By				Date/Time	1200	SE = Sediment
Reinquished By				Date/Time	1200	Received By				Date/Time	1200	SO = Solid
Reinquished By				Date/Time	1200	Received By				Date/Time	1200	SL = Sludge
Reinquished By				Date/Time	1200	Received By				Date/Time	1200	W = Water
Reinquished By				Date/Time	1200	Received By				Date/Time	1200	O = Oil
Reinquished By				Date/Time	1200	Received By				Date/Time	1200	A = Air

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time
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CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #

X16-001-157

Page 1 of 1

Collector	S.W. King/CHPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650
SAF No.	X16-001	Sampling Origin	Hanford Site	Purchase Order/Charge Code	303269
Project Title	100-BC-5 RI, OCTOBER 2015	Logbook No.	HNF-N-506-78/52	Ice Chest No.	N/A
Shipped To (Lab)	TestAmerica Incorporated, Richland	Method of Shipment	GOVERNMENT VEHICLE	Bill of Lading/Air Bill No.	N/A
Protocol	CERCLA	Priority:	15 Days	Offsite Property No.	N/A
POSSIBLE SAMPLE HAZARDS/REMARKS			SPECIAL INSTRUCTIONS		
*** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 438.1			Submit deliverables & invoices to CCP Sample Management.		
Total Activity Exemption: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			Hold Time		

Sample No.	Filter	* Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B32V46	N	OCT 12 2015	1019	1x60-mL aG	7196_CR6: COMMON	24 Hours	Cool <=6C
B32V50	Y	W	Y	1x60-mL aG	7196_CR6: COMMON	24 Hours	Cool <=6C

October 27, 2015

WCO432
#1035

Relinquished By	Print <i>[Signature]</i>	Sign <i>[Signature]</i>	Date/Time	Received By	Print <i>[Signature]</i>	Sign <i>[Signature]</i>	Date/Time	Matrix *
Relinquished By	S.W. King/CHPRC		OCT 12 2015	L.D. Wall/CHPRC			OCT 12 2015	S = Soil SE = Sediment SO = Solid SL = Sludge W = Water O = Oil A = Air
Relinquished By	L.D. Wall/CHPRC		OCT 12 2015	J. Friesz, TARI			OCT 12 2015	DS = Drum Solids DL = Drum Liquids T = Tissue WT = Wipe L = Liquid V = Vegetation X = Other
Relinquished By			Date/Time	Received By			Date/Time	
FINAL SAMPLE DISPOSITION		Disposal Method (e.g., Return to customer, per lab procedure, used in process)		Disposed By		Date/Time		

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #

X16-001-155

Page 1 of 1

Collector	S.W. King/CHPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650
SAF No.	X16-001	Sampling Origin	Hanford Site	Purchase Order/Charge Code	303269
Project Title	100-BC-5 RJ, OCTOBER 2015	Logbook No.	HNF-N-506 78/52	Ice Chest No.	N/A
Shipped To (Lab)	Test/America Incorporated, Richland	Method of Shipment	GOVERNMENT VEHICLE	Bill of Lading/Air Bill No.	N/A
Protocol	CERCLA	Priority:	15 Days	Offsite Property No.	N/A
POSSIBLE SAMPLE HAZARDS/REMARKS			SPECIAL INSTRUCTIONS		
*** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR /IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1			Submit deliverables & invoices to ^CPP Sample Management.		
Total Activity Exemption: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			Hold Time		

Sample No.	Filter	* Date	Time	No./Type Container	Sample Analysis	Holding Time	Preservative
B32V49	Y	OCT 12 2015	0600	1x60-mL aG	7196_CR6: COMMON	24 Hours	Cool <=6C
B32V45	N	W		1x60-mL aG	7196_CR6: COMMON	24 Hours	Cool <=6C

October 27, 2015

W 101432
#1039

Relinquished By	S.W. King/CHPRC	Print Sign	Date/Time	1200	Received By	L.D. Wall	Print Sign	Date/Time	1200	Matrix *	DS = Drum Solids
Relinquished By	L.D. Wall	CHPRC	Date/Time	1445	Received By	J. Friesz, TARL	CHPRC	Date/Time	1445	S = Soil	DL = Drum Liquids
Relinquished By			Date/Time		Received By			Date/Time		SO = Solid	T = Tissue
Relinquished By			Date/Time		Received By			Date/Time		SL = Sludge	WI = Wipe
Relinquished By			Date/Time		Received By			Date/Time		W = Water	L = Liquid
Relinquished By			Date/Time		Received By			Date/Time		O = Oil	V = Vegetation
Relinquished By			Date/Time		Received By			Date/Time		A = Air	X = Other
FINAL SAMPLE DISPOSITION		Disposal Method (e.g., Return to customer, per lab procedure, used in process)			Disposed By		Date/Time				

Collector	S.W. King/CHPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650
SAF No.	X16-001	Sampling Origin	Hanford Site	Purchase Order/Charge Code	303269
Project Title	100-BC-5 RI OCTOBER 2015	Logbook No.	HNF-N-506 78/52	Ice Chest No.	N/A
Shipped To (Lab)	TestAmerica Incorporated, Richland	Method of Shipment	GOVERNMENT VEHICLE	Bill of Lading/Air Bill No.	N/A
Protocol	CERCLA	Priority:	15 Days	Offsite Property No.	N/A
POSSIBLE SAMPLE HAZARDS/REMARKS		SPECIAL INSTRUCTIONS		Hold Time	
*** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1		Submit deliverables & invoices to ~CPR Sample Management.		Total Activity Exemption: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	

Sample No.	Filter	*	Date	Time	No./Type Container	Sample Analysis	Holding Time	Preservative
B32V57	N		OCT 12 2015	1229	1x60-mL aG	7196_CR6: COMMON	24 Hours	Cool <=6C
B32V59	Y				1x60-mL aG	7196_CR6: COMMON	24 Hours	Cool <=6C

October 27, 2015

WCOL432
#1039

Reinquished By	S.W. King/CHPRC	Print	Signature	Date/Time	12/2015	Received By	L.D. Wall	Print	Signature	Date/Time	1/2015	Matrix *
Reinquished By	L.D. Wall	CHPRC	Signature	Date/Time	OCT 12 2015	Received By	J. Friesz, TARI	Signature	Signature	Date/Time	OCT 12 2015	S = Soil SE = Sediment SO = Solid SL = Sludge W = Water O = Oil A = Air
Reinquished By				Date/Time		Received By				Date/Time		DS = Drum Solids DL = Drum Liquids T = Tissue WT = Wipe L = Liquid V = Vegetation X = Other

FINAL SAMPLE DISPOSITION

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

Disposed By

Date/Time

October 27, 2015
Detection Summary

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

TestAmerica Job ID: 300-1039-1
SDG: WC0432

Client Sample ID: B32V52

Lab Sample ID: 300-1039-1

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: B32V53

Lab Sample ID: 300-1039-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.0018	B	0.0040	0.0015	mg/L	1		7196A	Total/NA

Client Sample ID: B32V46

Lab Sample ID: 300-1039-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.0056		0.0040	0.0015	mg/L	1		7196A	Total/NA

Client Sample ID: B32V50

Lab Sample ID: 300-1039-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.0061		0.0040	0.0015	mg/L	1		7196A	Total/NA

Client Sample ID: B32V49

Lab Sample ID: 300-1039-5

No Detections.

Client Sample ID: B32V45

Lab Sample ID: 300-1039-6

No Detections.

Client Sample ID: B32V57

Lab Sample ID: 300-1039-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.0051		0.0040	0.0015	mg/L	1		7196A	Total/NA

Client Sample ID: B32V59

Lab Sample ID: 300-1039-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.0057		0.0040	0.0015	mg/L	1		7196A	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Richland

October 27, 2015
Client Sample Results

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

TestAmerica Job ID: 300-1039-1
 SDG: WC0432

Client Sample ID: B32V52
 Date Collected: 10/12/15 11:14
 Date Received: 10/12/15 14:45

Lab Sample ID: 300-1039-1
 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			10/12/15 18:27	1

Client Sample ID: B32V53
 Date Collected: 10/12/15 11:14
 Date Received: 10/12/15 14:45

Lab Sample ID: 300-1039-2
 Matrix: Water

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.0018	B	0.0040	0.0015	mg/L			10/12/15 18:28	1

Client Sample ID: B32V46
 Date Collected: 10/12/15 10:19
 Date Received: 10/12/15 14:45

Lab Sample ID: 300-1039-3
 Matrix: Water

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.0056		0.0040	0.0015	mg/L			10/12/15 18:28	1

Client Sample ID: B32V50
 Date Collected: 10/12/15 10:19
 Date Received: 10/12/15 14:45

Lab Sample ID: 300-1039-4
 Matrix: Water

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.0061		0.0040	0.0015	mg/L			10/12/15 18:29	1

Client Sample ID: B32V49
 Date Collected: 10/12/15 08:00
 Date Received: 10/12/15 14:45

Lab Sample ID: 300-1039-5
 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			10/12/15 18:29	1

Client Sample ID: B32V45
 Date Collected: 10/12/15 08:00
 Date Received: 10/12/15 14:45

Lab Sample ID: 300-1039-6
 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			10/12/15 18:29	1

Client Sample ID: B32V57
 Date Collected: 10/12/15 12:29
 Date Received: 10/12/15 14:45

Lab Sample ID: 300-1039-7
 Matrix: Water

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.0051		0.0040	0.0015	mg/L			10/12/15 18:32	1

October 27, 2015
Client Sample Results

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

TestAmerica Job ID: 300-1039-1
SDG: WC0432

Client Sample ID: B32V59
Date Collected: 10/12/15 12:29
Date Received: 10/12/15 14:45

Lab Sample ID: 300-1039-8
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.0057		0.0040	0.0015	mg/L			10/12/15 18:33	1

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October 27, 2015
QC Sample Results

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

TestAmerica Job ID: 300-1039-1
SDG: WC0432

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 300-1416/3
Matrix: Water
Analysis Batch: 1416

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			10/12/15 18:24	1

Lab Sample ID: LCS 300-1416/4
Matrix: Water
Analysis Batch: 1416

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	0.265		mg/L		106	80 - 120

Lab Sample ID: 300-1039-1 MS
Matrix: Water
Analysis Batch: 1416

Client Sample ID: B32V52
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	0.0542		mg/L		105	85 - 115

Lab Sample ID: 300-1039-1 DU
Matrix: Water
Analysis Batch: 1416

Client Sample ID: B32V52
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Cr (VI)	0.0015	B	0.00180	B	mg/L		18	20

October 27, 2015
QC Association Summary

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

TestAmerica Job ID: 300-1039-1
SDG: WC0432

General Chemistry

Analysis Batch: 1416

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
300-1039-1	B32V52	Total/NA	Water	7196A	
300-1039-1 DU	B32V52	Total/NA	Water	7196A	
300-1039-1 MS	B32V52	Total/NA	Water	7196A	
300-1039-2	B32V53	Total/NA	Water	7196A	
300-1039-3	B32V46	Total/NA	Water	7196A	
300-1039-4	B32V50	Total/NA	Water	7196A	
300-1039-5	B32V49	Total/NA	Water	7196A	
300-1039-6	B32V45	Total/NA	Water	7196A	
300-1039-7	B32V57	Total/NA	Water	7196A	
300-1039-8	B32V59	Total/NA	Water	7196A	
LCS 300-1416/4	Lab Control Sample	Total/NA	Water	7196A	
MB 300-1416/3	Method Blank	Total/NA	Water	7196A	

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

TestAmerica Job ID: 300-1039-1
 SDG: WC0432

Client Sample ID: B32V52
Date Collected: 10/12/15 11:14
Date Received: 10/12/15 14:45

Lab Sample ID: 300-1039-1
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			1416	10/12/15 18:27	AMC	TAL RCH

Client Sample ID: B32V53
Date Collected: 10/12/15 11:14
Date Received: 10/12/15 14:45

Lab Sample ID: 300-1039-2
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			1416	10/12/15 18:28	AMC	TAL RCH

Client Sample ID: B32V46
Date Collected: 10/12/15 10:19
Date Received: 10/12/15 14:45

Lab Sample ID: 300-1039-3
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			1416	10/12/15 18:28	AMC	TAL RCH

Client Sample ID: B32V50
Date Collected: 10/12/15 10:19
Date Received: 10/12/15 14:45

Lab Sample ID: 300-1039-4
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			1416	10/12/15 18:29	AMC	TAL RCH

Client Sample ID: B32V49
Date Collected: 10/12/15 08:00
Date Received: 10/12/15 14:45

Lab Sample ID: 300-1039-5
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			1416	10/12/15 18:29	AMC	TAL RCH

Client Sample ID: B32V45
Date Collected: 10/12/15 08:00
Date Received: 10/12/15 14:45

Lab Sample ID: 300-1039-6
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	7196A		1			1416	10/12/15 18:29	AMC	TAL RCH

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

TestAmerica Job ID: 300-1039-1
 SDG: WC0432

Client Sample ID: B32V57
Date Collected: 10/12/15 12:29
Date Received: 10/12/15 14:45

Lab Sample ID: 300-1039-7
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			1416	10/12/15 18:32	AMC	TAL RCH

Client Sample ID: B32V59
Date Collected: 10/12/15 12:29
Date Received: 10/12/15 14:45

Lab Sample ID: 300-1039-8
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			1416	10/12/15 18:33	AMC	TAL RCH

Client Sample ID: B32V52
Date Collected: 10/12/15 11:14
Date Received: 10/12/15 14:45

Lab Sample ID: 300-1039-1 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			1416	10/12/15 18:28	AMC	TAL RCH

Client Sample ID: Lab Control Sample
Date Collected: N/A
Date Received: N/A

Lab Sample ID: LCS 300-1416/4
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			1416	10/12/15 18:24	AMC	TAL RCH

Client Sample ID: Method Blank
Date Collected: N/A
Date Received: N/A

Lab Sample ID: MB 300-1416/3
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			1416	10/12/15 18:24	AMC	TAL RCH

Client Sample ID: B32V52
Date Collected: 10/12/15 11:14
Date Received: 10/12/15 14:45

Lab Sample ID: 300-1039-1 MS
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		3.0 mL	1416	10/12/15 18:25	AMC	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: CH2M Hill Chemical

TestAmerica Job ID: 300-1039-1
SDG: WC0432

Method	Method Description	Protocol	Laboratory
7196A	Chromium, Hexavalent	SW846	TAL RCH

Protocol References:

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



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

TestAmerica Job ID: 300-1039-1
SDG: WC0432

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
300-1039-1	B32V52	Water	10/12/15 11:14	10/12/15 14:45
300-1039-2	B32V53	Water	10/12/15 11:14	10/12/15 14:45
300-1039-3	B32V46	Water	10/12/15 10:19	10/12/15 14:45
300-1039-4	B32V50	Water	10/12/15 10:19	10/12/15 14:45
300-1039-5	B32V49	Water	10/12/15 08:00	10/12/15 14:45
300-1039-6	B32V45	Water	10/12/15 08:00	10/12/15 14:45
300-1039-7	B32V57	Water	10/12/15 12:29	10/12/15 14:45
300-1039-8	B32V59	Water	10/12/15 12:29	10/12/15 14:45

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- 3
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- 11
- 12
- 13

Login Sample Receipt Checklist

Client: CH2M Hill Plateau Remediation Company

Job Number: 300-1039-1

SDG Number: WC0432

Login Number: 1039

List Number: 1

Creator: Friesz, Jordan D

List Source: TestAmerica Richland

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

