

8/17/2016

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: 300-3554-1
TestAmerica Sample Delivery Group: WC1291
Client Project/Site: I16-027

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

Attn: CPP Sample Management



Authorized for release by:
8/17/2016 8:15:47 AM
Steven Campbell, Project Mgmt. 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 less than five times the MDL.



LINKS

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Definitions/Glossary

Client: CH2M Hill Plateau Remediation Company
Project/Site: I16-027

TestAmerica Job ID: 300-3554-1
SDG: WC1291

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
D	The reported value is from a dilution.
U	Analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
U	Analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, 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)

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #
116-027-166
Page 1 of 1

Collector	J.R. Aguilar/CHPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650		
SAF No.	116-027	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071		
Project Title	100KR4, AUGUST 2016	Logbook No.	HNF-N-506 87 / 7	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:	30 Days	Offsite Property No.	N/A		
POSSIBLE SAMPLE HAZARDS/REMARKS			PRIORITY				
*** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1			SPECIAL INSTRUCTIONS				
			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
B364B2	N	JUL 22 2016	1008	1x60-mL aG	7196_CRF6: COMMON	24 Hours	Cool <=6C

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300-3554 COC



Relinquished By	J.R. Aguilar/CHPRC	Print	Sign	Date/Time	Received By	Janelle Zunker/CHPRC	Print	Sign	Date/Time	Matrix *
Relinquished By	Janelle Zunker/CHPRC	Print	Sign	Date/Time	Received By	J. Bock, TARL	Print	Sign	Date/Time	S = Soil SE = Sediment SO = Solid SL = Sludge W = Water O = Oil A = Air
Relinquished By					Received By					DS = Drum Solids DL = Drum Liquids T = Tissue W1 = Wipe L = Liquid V = Vegetation X = Other
Relinquished By					Received By					
FINAL SAMPLE DISPOSITION		Disposal Method (e.g., Return to customer, per lab procedure, used in process)			Disposed By		Date/Time			

CH2M Hill Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #
116-027-165
Page 1 of 1

Collector	J.R. Aguilar/CHPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650			
SAF No.	116-027	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071			
Project Title	100KR4, AUGUST 2016	Logbook No.	HNF-N-506 <u>S7 / J</u>	Ice Chest No.	N/A			
Shipped To (Lab)	TestAmerica Incorporated, Richmond	Method of Shipment	GOVERNMENT VEHICLE	Bill of Lading/Air Bill No.	N/A			
Protocol	CERCLA	Priority:	30 Days	Offsite Property No.	N/A			
POSSIBLE SAMPLE HAZARDS/REMARKS			PRIORITY					
*** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1			SPECIAL INSTRUCTIONS					
			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
B364B1	N		JUL 22 2016	1008	1x125-mL P	300.0_ANIONS_IC: COMMON	48 Hours	Cool <=6C

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Relinquished By	J.R. Aguilar/CHPRC	Print	Sign	JUL 22 2016	Date/Time	1111	Received By	Janelle Zunker CHPRC	Print	Sign	JUL 22 2016	Date/Time	1111	Matrix *
Relinquished By	Janelle Zunker CHPRC			JUL 22 2016	Date/Time	1510	Received By	J. Bock, TARL			JUL 22 2016	Date/Time	1510	S = Soil SE = Sediment SO = Solid SL = Sludge W = Water O = Oil A = Air
Relinquished By					Date/Time		Received By					Date/Time		DS = Drum Solids DL = Drum Liquids T = Tissue WI = 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
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CH2M HILL Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #
116-027-168
Page 1 of 1

Collector	J.R. Aguilar/CHPRC		Contact/Requester	Karen Waters-Husted		Telephone No.	509-376-4650	
SAF No.	116-027		Sampling Origin	Hanford Site		Purchase Order/Charge Code	300071	
Project Title	100KRR4, AUGUST 2016		Logbook No.	HNF-N-506 <u>67 / 7</u>		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:	30 Days		Offsite Property No.	N/A	
POSSIBLE SAMPLE HAZARDS/REMARKS			SPECIAL INSTRUCTIONS			Total Activity Exemption: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
*** 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			N/A					
Sample No.	Filter	* Date	Time	No./Type Container	Sample Analysis	Holding Time	Preservative	
B364B9	N	W JUL 22 2016	1039	1x125-mL P	300.0_ANIONS_JC: COMMON	48 Hours	Cool <=6C	

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Relinquished By	J.R. Aguilar/CHPRC	Print	Sign	Date/Time	Received By	Janelle Zunker/CHPRC	Print	Sign	Date/Time	Matrix *
Relinquished By	Janelle Zunker/CHPRC			JUL 22 2016 1111	Received By			JUL 22 2016 1111		S = Soil SE = Sediment SO = Solid SL = Sludge W = Water O = Oil A = Air
Relinquished By				JUL 22 2016 1510	Received By			JUL 22 2016 1510		DS = Drum Solids DL = Drum Liquids T = Tissue WT = Wipe L = Liquid V = Vegetation X = Other
Relinquished By					Received By					
FINAL SAMPLE DISPOSITION		Disposal Method (e.g., Return to customer, per lab procedure, used in process)			Disposed By		Date/Time			

Detection Summary

Client: CH2M Hill Plateau Remediation Company
Project/Site: I16-027

TestAmerica Job ID: 300-3554-1
SDG: WC1291

Client Sample ID: B364B2

Lab Sample ID: 300-3554-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.014		0.0040	0.0015	mg/L	1		7196A	Total/NA

Client Sample ID: B364B1

Lab Sample ID: 300-3554-2

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	5.2	D	0.056	0.028	mg/L	2		300.0	Total/NA
Fluoride	0.10	D	0.10	0.050	mg/L	2		300.0	Total/NA
Sulfate	32	D	0.50	0.25	mg/L	2		300.0	Total/NA

Client Sample ID: B364B9

Lab Sample ID: 300-3554-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	4.2	D	0.40	0.20	mg/L	2		300.0	Total/NA
Nitrate as N	2.3	D	0.056	0.028	mg/L	2		300.0	Total/NA
Fluoride	0.28	D	0.10	0.050	mg/L	2		300.0	Total/NA
Sulfate	38	D	0.50	0.25	mg/L	2		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Richland

Client Sample Results

Client: CH2M Hill Plateau Remediation Company
 Project/Site: I16-027

TestAmerica Job ID: 300-3554-1
 SDG: WC1291

Client Sample ID: B364B2

Lab Sample ID: 300-3554-1

Date Collected: 07/22/16 10:08

Matrix: Water

Date Received: 07/22/16 15:10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.014		0.0040	0.0015	mg/L			07/22/16 18:21	1

Client Sample ID: B364B1

Lab Sample ID: 300-3554-2

Date Collected: 07/22/16 10:08

Matrix: Water

Date Received: 07/22/16 15:10

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			07/22/16 19:11	2
Nitrate as N	5.2	D	0.056	0.028	mg/L			07/22/16 19:11	2
Fluoride	0.10	D	0.10	0.050	mg/L			07/22/16 19:11	2
Nitrite as N	0.038	U D	0.076	0.038	mg/L			07/22/16 19:11	2
Sulfate	32	D	0.50	0.25	mg/L			07/22/16 19:11	2

Client Sample ID: B364B9

Lab Sample ID: 300-3554-3

Date Collected: 07/22/16 10:39

Matrix: Water

Date Received: 07/22/16 15:10

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.2	D	0.40	0.20	mg/L			07/22/16 19:56	2
Nitrate as N	2.3	D	0.056	0.028	mg/L			07/22/16 19:56	2
Fluoride	0.28	D	0.10	0.050	mg/L			07/22/16 19:56	2
Nitrite as N	0.038	U D	0.076	0.038	mg/L			07/22/16 19:56	2
Sulfate	38	D	0.50	0.25	mg/L			07/22/16 19:56	2

QC Sample Results

Client: CH2M Hill Plateau Remediation Company
Project/Site: I16-027

TestAmerica Job ID: 300-3554-1
SDG: WC1291

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 300-5006/5
Matrix: Water
Analysis Batch: 5006

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			07/22/16 18:41	1
Nitrite as N	0.019	U	0.038	0.019	mg/L			07/22/16 18:41	1

Lab Sample ID: LCS 300-5006/6
Matrix: Water
Analysis Batch: 5006

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	2.31		mg/L		102	80 - 120
Nitrite as N	3.04	3.14		mg/L		103	80 - 120

Lab Sample ID: 300-3554-2 MS
Matrix: Water
Analysis Batch: 5006

Client Sample ID: B364B1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	5.2	D	0.452	5.69	D	mg/L		107	75 - 125
Nitrite as N	0.038	U D	0.609	0.533	D	mg/L		88	75 - 125

Lab Sample ID: 300-3554-2 DU
Matrix: Water
Analysis Batch: 5006

Client Sample ID: B364B1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Nitrate as N	5.2	D	5.27	D	mg/L		1	20
Nitrite as N	0.038	U D	0.038	U D	mg/L		NC	20

Lab Sample ID: MB 300-5007/5
Matrix: Water
Analysis Batch: 5007

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			07/22/16 18:41	1
Fluoride	0.025	U	0.050	0.025	mg/L			07/22/16 18:41	1
Sulfate	0.13	U	0.25	0.13	mg/L			07/22/16 18:41	1

Lab Sample ID: LCS 300-5007/6
Matrix: Water
Analysis Batch: 5007

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	16.0	16.1		mg/L		101	80 - 120
Fluoride	4.00	4.04		mg/L		101	80 - 120
Sulfate	20.0	20.2		mg/L		101	80 - 120

QC Sample Results

Client: CH2M Hill Plateau Remediation Company
 Project/Site: I16-027

TestAmerica Job ID: 300-3554-1
 SDG: WC1291

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 300-3554-2 MS
 Matrix: Water
 Analysis Batch: 5007

Client Sample ID: B364B1
 Prep Type: Total/NA

Analyte	Sample		Spike Added	MS MS		Unit	D	%Rec	%Rec Limits
	Result	Qualifier		Result	Qualifier				
Chloride	18	D	3.20	21.8	D	mg/L		103	75 - 125
Fluoride	0.10	D	0.800	0.810	D	mg/L		89	75 - 125
Sulfate	32	D	4.00	36.3	D	mg/L		107	75 - 125

Lab Sample ID: 300-3554-2 DU
 Matrix: Water
 Analysis Batch: 5007

Client Sample ID: B364B1
 Prep Type: Total/NA

Analyte	Sample		DU DU		Unit	D	RPD	RPD Limit
	Result	Qualifier	Result	Qualifier				
Chloride	18	D	18.7	D	mg/L		1	20
Fluoride	0.10	D	0.102	D	mg/L		0.5	20
Sulfate	32	D	32.5	D	mg/L		1	20

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 300-5016/31
 Matrix: Water
 Analysis Batch: 5016

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			07/22/16 18:16	1

Lab Sample ID: LCS 300-5016/32
 Matrix: Water
 Analysis Batch: 5016

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

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Cr (VI)	0.250	0.245		mg/L		98	80 - 120

Lab Sample ID: 300-3553-A-12 MS
 Matrix: Water
 Analysis Batch: 5016

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

Analyte	Sample		Spike Added	MS MS		Unit	D	%Rec	%Rec Limits
	Result	Qualifier		Result	Qualifier				
Cr (VI)	0.0015	U	0.0500	0.0497		mg/L		99	75 - 125

Lab Sample ID: 300-3553-A-12 DU
 Matrix: Water
 Analysis Batch: 5016

Client Sample ID: Duplicate
 Prep Type: Total/NA

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

QC Association Summary

Client: CH2M Hill Plateau Remediation Company
Project/Site: I16-027

TestAmerica Job ID: 300-3554-1
SDG: WC1291

HPLC/IC

Analysis Batch: 5006

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
300-3554-2	B364B1	Total/NA	Water	300.0	
300-3554-3	B364B9	Total/NA	Water	300.0	
MB 300-5006/5	Method Blank	Total/NA	Water	300.0	
LCS 300-5006/6	Lab Control Sample	Total/NA	Water	300.0	
300-3554-2 MS	B364B1	Total/NA	Water	300.0	
300-3554-2 DU	B364B1	Total/NA	Water	300.0	

Analysis Batch: 5007

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
300-3554-2	B364B1	Total/NA	Water	300.0	
300-3554-3	B364B9	Total/NA	Water	300.0	
MB 300-5007/5	Method Blank	Total/NA	Water	300.0	
LCS 300-5007/6	Lab Control Sample	Total/NA	Water	300.0	
300-3554-2 MS	B364B1	Total/NA	Water	300.0	
300-3554-2 DU	B364B1	Total/NA	Water	300.0	

General Chemistry

Analysis Batch: 5016

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
300-3554-1	B364B2	Total/NA	Water	7196A	
MB 300-5016/31	Method Blank	Total/NA	Water	7196A	
LCS 300-5016/32	Lab Control Sample	Total/NA	Water	7196A	
300-3553-A-12 MS	Matrix Spike	Total/NA	Water	7196A	
300-3553-A-12 DU	Duplicate	Total/NA	Water	7196A	

Lab Chronicle

Client: CH2M Hill Plateau Remediation Company
 Project/Site: I16-027

TestAmerica Job ID: 300-3554-1
 SDG: WC1291

Client Sample ID: B364B2

Lab Sample ID: 300-3554-1

Date Collected: 07/22/16 10:08

Matrix: Water

Date Received: 07/22/16 15:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7196A		1			5016	07/22/16 18:21	RLC	TAL RCH

Client Sample ID: B364B1

Lab Sample ID: 300-3554-2

Date Collected: 07/22/16 10:08

Matrix: Water

Date Received: 07/22/16 15:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		2			5006	07/22/16 19:11	RLC	TAL RCH
Total/NA	Analysis	300.0		2			5007	07/22/16 19:11	RLC	TAL RCH

Client Sample ID: B364B9

Lab Sample ID: 300-3554-3

Date Collected: 07/22/16 10:39

Matrix: Water

Date Received: 07/22/16 15:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		2			5006	07/22/16 19:56	RLC	TAL RCH
Total/NA	Analysis	300.0		2			5007	07/22/16 19:56	RLC	TAL RCH

Client Sample ID: Method Blank

Lab Sample ID: MB 300-5006/5

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			5006	07/22/16 18:41	RLC	TAL RCH

Client Sample ID: Method Blank

Lab Sample ID: MB 300-5007/5

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			5007	07/22/16 18:41	RLC	TAL RCH

Client Sample ID: Method Blank

Lab Sample ID: MB 300-5016/31

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			5016	07/22/16 18:16	RLC	TAL RCH

Lab Chronicle

Client: CH2M Hill Plateau Remediation Company
Project/Site: I16-027

TestAmerica Job ID: 300-3554-1
SDG: WC1291

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 300-5006/6

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			5006	07/22/16 18:56	RLC	TAL RCH

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 300-5007/6

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			5007	07/22/16 18:56	RLC	TAL RCH

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 300-5016/32

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			5016	07/22/16 18:16	RLC	TAL RCH

Client Sample ID: Matrix Spike

Lab Sample ID: 300-3553-A-12 MS

Date Collected: 07/22/16 06:45

Matrix: Water

Date Received: 07/22/16 15:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7196A		1			5016	07/22/16 18:16	RLC	TAL RCH

Client Sample ID: B364B1

Lab Sample ID: 300-3554-2 MS

Date Collected: 07/22/16 10:08

Matrix: Water

Date Received: 07/22/16 15:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		2			5006	07/22/16 19:26	RLC	TAL RCH
Total/NA	Analysis	300.0		2			5007	07/22/16 19:26	RLC	TAL RCH

Laboratory References:

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

Method Summary

Client: CH2M Hill Plateau Remediation Company
Project/Site: I16-027

TestAmerica Job ID: 300-3554-1
SDG: WC1291

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	MCAWW	TAL RCH
7196A	Chromium, Hexavalent	SW846	TAL RCH

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

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



Sample Summary

Client: CH2M Hill Plateau Remediation Company
Project/Site: I16-027

TestAmerica Job ID: 300-3554-1
SDG: WC1291

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
300-3554-1	B364B2	Water	07/22/16 10:08	07/22/16 15:10
300-3554-2	B364B1	Water	07/22/16 10:08	07/22/16 15:10
300-3554-3	B364B9	Water	07/22/16 10:39	07/22/16 15:10

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

Login Sample Receipt Checklist

Client: CH2M Hill Plateau Remediation Company

Job Number: 300-3554-1

SDG Number: WC1291

Login Number: 3554

List Number: 1

Creator: Bock, Julie A

List Source: TestAmerica Richland

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