

# 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: 300-1698-1  
TestAmerica Sample Delivery Group: WC0641  
Client Project/Site: I16-002

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

Attn: CPP Sample Management



Authorized for release by:  
12/7/2015 3:24:48 PM  
Steven Campbell, Quality Assurance Assistant  
[steven.campbell@testamericainc.com](mailto:steven.campbell@testamericainc.com)

Designee for  
Whitney Ritari, Project Manager I  
(509)375-3131 ext164  
[whitney.ritari@testamericainc.com](mailto: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

Review your project results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://www.testamericainc.com)

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**Qualifiers****HPLC/IC**

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

**General Chemistry**

Qualifier	Qualifier Description
B	Estimated result. Result is less than the RL, but greater than MDL
U	Analyzed for but not detected.

**Glossary**

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client: CH2M Hill Plateau Remediation Company  
Project/Site: I16-002

TestAmerica Job ID: 300-1698-1  
SDG: WC0641

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**Job ID: 300-1698-1**

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**Laboratory: TestAmerica Richland**

**Narrative**

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**Job Narrative  
300-1698-1**

**Comments**

No additional comments.

**Receipt**

The samples were received on 11/30/2015 2:45 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 5.5° 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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**CH2MHill Plateau Remediation Company**

**CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST**

C.O.C. #  
**116-002-209**

Page 1 of 1

Collector	J.R. Aguilera/CHPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650
SAF No.	116-002	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071
Project Title	100KR4, NOVEMBER 2015	Logbook No.	HNF-N-506 <u>80 / 43</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
<b>POSSIBLE SAMPLE HAZARDS/REMARKS</b>			<b>SPECIAL INSTRUCTIONS</b>		
*** 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			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
B333J5	N	W	11-30-15	1212	1x60-ml aG	7196_CR6: COMMON	24 Hours	Cool <=6C
B333J7	Y	W	11-30-15	1212	1x60-ml aG	7196_CR6: COMMON	24 Hours	Cool <=6C

*#1698*  
*used 11-30-15*  
*used 12-15-15*  
*Due 12-15-15*  
*SR*  
*1213115*



300-1698 COC

Relinquished By	J.R. Aguilera/CHPRC	Print	Sign	Date/Time	NOV 30 2015 1305	Received By	M.A. White/CHPRC	Print	Sign	Date/Time	NOV 30 2015 1305
Relinquished By	M.A. White/CHPRC	Print	Sign	Date/Time	NOV 30 2015 1445	Received By	J. Bock/TARL	Print	Sign	Date/Time	NOV 30 2015 1445
Relinquished By		Print	Sign	Date/Time		Received By		Print	Sign	Date/Time	

Matrix *	
S	= Soil
SE	= Sediment
SO	= Solid
SL	= Sludge
W	= Water
O	= Oil
A	= Air
DS	= Drum Solids
DL	= Drum Liquids
T	= Tissue
WI	= Wipe
L	= Liquid
V	= Vegetation
X	= Other

December 07, 2015

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. #  
116-002-205  
Page 1 of 1

Collector	J.R. Aguilar/CHPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650
SAF No.	116-002	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071
Project Title	100KR4, NOVEMBER 2015	Logbook No.	HNF-N-506 50 / 43	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
<b>POSSIBLE SAMPLE HAZARDS/REMARKS</b>			<b>SPECIAL INSTRUCTIONS</b>		
*** 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			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
B333H6	N	W	11-30-15	0948	1x60-ml aG	7196_Cr6: COMMON	24 Hours	Cool <=6C
B333J0	Y	W	11-30-15	0948	1x60-ml aG	7196_Cr6: COMMON	24 Hours	Cool <=6C

Handwritten notes:   
 11698  
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 1213115

December 07, 2015

Relinquished By	J.R. Aguilar/CHPRC	Print	Sign	Date/Time	NOV 30 2015 1140	Received By	F.M. Han/CHPRC	Print	Sign	Date/Time	NOV 30 2015 1140	Matrix *
Relinquished By	F.M. Han/CHPRC	Print	Sign	Date/Time	NOV 30 2015 1445	Received By	J. Bock, TARL	Print	Sign	Date/Time	NOV 30 2015 1445	S = Soil
Relinquished By		Print	Sign	Date/Time	NOV 30 2015	Received By	J. Bock, TARL	Print	Sign	Date/Time	NOV 30 2015	SE = Sediment
Relinquished By		Print	Sign	Date/Time		Received By		Print	Sign	Date/Time		SO = Solid
Relinquished By		Print	Sign	Date/Time		Received By		Print	Sign	Date/Time		SL = Sludge
Relinquished By		Print	Sign	Date/Time		Received By		Print	Sign	Date/Time		W = Water
Relinquished By		Print	Sign	Date/Time		Received By		Print	Sign	Date/Time		O = Oil
Relinquished By		Print	Sign	Date/Time		Received By		Print	Sign	Date/Time		A = Air
Relinquished By		Print	Sign	Date/Time		Received By		Print	Sign	Date/Time		DS = Drum Solids
Relinquished By		Print	Sign	Date/Time		Received By		Print	Sign	Date/Time		DL = Drum Liquids
Relinquished By		Print	Sign	Date/Time		Received By		Print	Sign	Date/Time		T = Tissue
Relinquished By		Print	Sign	Date/Time		Received By		Print	Sign	Date/Time		WI = Wipe
Relinquished By		Print	Sign	Date/Time		Received By		Print	Sign	Date/Time		L = Liquid
Relinquished By		Print	Sign	Date/Time		Received By		Print	Sign	Date/Time		V = Vegetation
Relinquished By		Print	Sign	Date/Time		Received By		Print	Sign	Date/Time		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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CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #  
I16-002-207  
Page 1 of 1

Collector	J.R. Aguilar/CHPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650
SAF No.	I16-002	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071
Project Title	100KR4, NOVEMBER 2015	Logbook No.	HNF-N-506 80/43	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
<b>POSSIBLE SAMPLE HAZARDS/REMARKS</b>			<b>SPECIAL INSTRUCTIONS</b>		
*** 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			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
B333H7	N	W	11-30-15	0948	1x60-mL aG	7196_CR6: COMMON	24 Hours	Cool <=6C
B333J1	Y	W	11-30-15	0948	1x60-mL aG	7196_CR6: COMMON	24 Hours	Cool <=6C

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1213115

Relinquished By	J.R. Aguilar/CHPRC	Print	Sign	NOV 30 2015	Date/Time	1140	Received By	F.M. Hest/CHPRC	Print	Sign	NOV 30 2015	Date/Time	1140	Matrix *
Relinquished By	F.M. Hest/CHPRC	Print	Sign	NOV 30 2015	Date/Time	1445	Received By	F.M. Hest/CHPRC	Print	Sign	NOV 30 2015	Date/Time	1445	S = Soil
Relinquished By		Print	Sign	NOV 30 2015	Date/Time	1445	Received By		Print	Sign	NOV 30 2015	Date/Time	1445	SE = Sediment
Relinquished By		Print	Sign	NOV 30 2015	Date/Time	1445	Received By		Print	Sign	NOV 30 2015	Date/Time	1445	SO = Solid
Relinquished By		Print	Sign	NOV 30 2015	Date/Time	1445	Received By		Print	Sign	NOV 30 2015	Date/Time	1445	SL = Sludge
Relinquished By		Print	Sign	NOV 30 2015	Date/Time	1445	Received By		Print	Sign	NOV 30 2015	Date/Time	1445	W = Water
Relinquished By		Print	Sign	NOV 30 2015	Date/Time	1445	Received By		Print	Sign	NOV 30 2015	Date/Time	1445	O = Oil
Relinquished By		Print	Sign	NOV 30 2015	Date/Time	1445	Received By		Print	Sign	NOV 30 2015	Date/Time	1445	A = Air
Relinquished By		Print	Sign	NOV 30 2015	Date/Time	1445	Received By		Print	Sign	NOV 30 2015	Date/Time	1445	DS = Drum Solids
Relinquished By		Print	Sign	NOV 30 2015	Date/Time	1445	Received By		Print	Sign	NOV 30 2015	Date/Time	1445	DL = Drum Liquids
Relinquished By		Print	Sign	NOV 30 2015	Date/Time	1445	Received By		Print	Sign	NOV 30 2015	Date/Time	1445	T = Tissue
Relinquished By		Print	Sign	NOV 30 2015	Date/Time	1445	Received By		Print	Sign	NOV 30 2015	Date/Time	1445	WI = Wipe
Relinquished By		Print	Sign	NOV 30 2015	Date/Time	1445	Received By		Print	Sign	NOV 30 2015	Date/Time	1445	L = Liquid
Relinquished By		Print	Sign	NOV 30 2015	Date/Time	1445	Received By		Print	Sign	NOV 30 2015	Date/Time	1445	V = Vegetation
Relinquished By		Print	Sign	NOV 30 2015	Date/Time	1445	Received By		Print	Sign	NOV 30 2015	Date/Time	1445	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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CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #  
116-002-249  
Page 1 of 1

Collector	J.R. Aguilar/CHPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650
SAF No.	116-002	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071
Project Title	100KR4, NOVEMBER 2015	Logbook No.	HNF-N-506 <u>80 / 43</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		
*** 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			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
B33414	N	W	11-30-15	1042	1x60-ml aG	7196_CRG: COMMON	24 Hours	Cool <=6C
B33418	Y	W	11-30-15	1042	1x60-ml aG	7196_CRG: COMMON	24 Hours	Cool <=6C

Handwritten notes:   
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December 07, 2015

Relinquished By	J.R. Aguilar/CHPRC	Print	Sign	Date/Time	NOV 30 2015 1140	Received By	F.M. Heston/CHPRC	Print	Sign	Date/Time	NOV 30 2015 1140
Relinquished By				Date/Time	NOV 30 2015 1445	Received By	J. Bock, TARL			Date/Time	NOV 30 2015 1445
Relinquished By				Date/Time		Received By				Date/Time	

Matrix *	
S	= Soil
SE	= Sediment
SO	= Solid
SL	= Sludge
W	= Water
O	= Oil
A	= Air
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
PRINTED ON	10/8/2015	FSR ID = FSR7900	A-6004-842 (REV 2)

CH2M Hill Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #  
I16-002-247  
Page 1 of 1

Collector	J.R. Aguilan/CHPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650
SAF No.	I16-002	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071
Project Title	100KR4, NOVEMBER 2015	Logbook No.	HNF-N-506 80 / 43	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
<b>POSSIBLE SAMPLE HAZARDS/REMARKS</b>			<b>SPECIAL INSTRUCTIONS</b>		
*** 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			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
B33413	N	W	11-30-15	1042	1x60-mL aG	7196_CRG: COMMON	24 Hours	Cool <=6C
B33417	Y	W	11-30-15	1042	1x60-mL aG	7196_CRG: COMMON	24 Hours	Cool <=6C

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*Handwritten:* 1213115

December 07, 2015

Relinquished By	J.R. Aguilan/CHPRC	Print	Sign	NOV 30 2015	Date/Time	1140	Received By	F.M. Hall/CHPRC	Print	Sign	NOV 30 2015	Date/Time	1140	Received By	J. Bock, TARL	Print	Sign	NOV 30 2015	Date/Time	1145	Received By		Date/Time	
Relinquished By	F.M. Hall/CHPRC	Print	Sign	NOV 30 2015	Date/Time	1145	Received By		Print	Sign	NOV 30 2015	Date/Time	1145	Received By		Print	Sign	NOV 30 2015	Date/Time	1145	Received By		Date/Time	

Matrix *			
S	= Soil	DS	= Drum Solids
SE	= Sediment	DL	= Drum Liquids
SO	= Solid	T	= Tissue
SL	= Sludge	WI	= Wipe
W	= Water	L	= Liquid
O	= Oil	V	= Vegetation
A	= Air	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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CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #

116-002-206

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Collector	J.R. Aguilar/CHPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650
SAF No.	116-002	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071
Project Title	100KRR4, NOVEMBER 2015	Logbook No.	HNF-N-50680 / 43	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
<b>POSSIBLE SAMPLE HAZARDS/REMARKS</b>			<b>SPECIAL INSTRUCTIONS</b>	<b>Hold Time</b>	<b>Total Activity Exemption:</b> 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					
Sample No.	Filter	Date	Time	No./Type Container	Sample Analysis
B333H5	N	11-30-15	0948	1x500-mL P	300.0 ANIONS_IC: COMMON
					Holding Time
					48 Hours
					Preservative
					Cool <=6C

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SR  
12/3/15

Relinquished By	J.R. Aguilar/CHPRC	Print	Sign	NOV 30 2015	Date/Time	1140	Received By	F.M. Hall/CHPRC	Print	Sign	NOV 30 2015	Date/Time	1140	Matrix *
Relinquished By	F.M. Hall/CHPRC	Print	Sign	NOV 30 2015	Date/Time	1445	Received By	J. Bock, TARL	Print	Sign	NOV 30 2015	Date/Time	1445	S = Soil
Relinquished By		Print	Sign		Date/Time		Received By		Print	Sign		Date/Time	SE = Sediment	
Relinquished By		Print	Sign		Date/Time		Received By		Print	Sign		Date/Time	SO = Solid	
Relinquished By		Print	Sign		Date/Time		Received By		Print	Sign		Date/Time	SL = Sludge	
Relinquished By		Print	Sign		Date/Time		Received By		Print	Sign		Date/Time	W = Water	
Relinquished By		Print	Sign		Date/Time		Received By		Print	Sign		Date/Time	O = Oil	
Relinquished By		Print	Sign		Date/Time		Received By		Print	Sign		Date/Time	A = Air	
Relinquished By		Print	Sign		Date/Time		Received By		Print	Sign		Date/Time	DS = Drum Solids	
Relinquished By		Print	Sign		Date/Time		Received By		Print	Sign		Date/Time	DL = Drum Liquids	
Relinquished By		Print	Sign		Date/Time		Received By		Print	Sign		Date/Time	T = Tissue	
Relinquished By		Print	Sign		Date/Time		Received By		Print	Sign		Date/Time	WI = Wipe	
Relinquished By		Print	Sign		Date/Time		Received By		Print	Sign		Date/Time	L = Liquid	
Relinquished By		Print	Sign		Date/Time		Received By		Print	Sign		Date/Time	V = Vegetation	
Relinquished By		Print	Sign		Date/Time		Received By		Print	Sign		Date/Time	X = Other	

December 07, 2015

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. #  
116-002-410  
Page 1 of 1

Collector	B.J. Weeber/CH2MHC	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650
SAF No.	116-002	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071
Project Title	100KR4, NOVEMBER 2015	Logbook No.	HNF-N-506 <u>82/13</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		
*** 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			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
B33BC7	N	W 11-30-15	1029	1x500-ml P	300.0_ANIONS_IC: COMMON	48 Hours	Cool <=6C

→ 11698  
used 4/21

28  
1213115

December 07, 2015

Relinquished By	B.J. Weeber/CH2MHC	Print		Sign		Date/Time	NOV 30 2015 1155	Received By	F.M. Hall/CH2MHC	Print		Sign		Date/Time	NOV 30 2015 1155	Matrix *	S = Soil SE = Sediment SO = Solid SL = Sludge W = Water O = Oil A = Air	DS = Drum Solids DL = Drum Liquids T = Tissue WI = Wipe L = Liquid V = Vegetation X = Other
Relinquished By	F.M. Hall/CH2MHC					Date/Time	NOV 30 2015	Received By					Date/Time	NOV 30 2015 1445				
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
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CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #  
116-002-397  
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Collector	J.R. Aguilar/CHPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650
SAF No.	116-002	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071
Project Title	100KR4, NOVEMBER 2015	Logbook No.	HNF-N-506 50 / 43	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		
*** 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			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
B3B99	N	W	11-30-15	1042	1x500-ml P	300.0 ANIONS_IC: COMMON	48 Hours	Cool <=6C

11698  
WCCD0421

12/31/15

December 07, 2015

Relinquished By	J.R. Aguilar/CHPRC	Print	Sign	NOV 30 2015	1140	Received By	F.M. Hastic/CHPRC	Print	Sign	NOV 30 2015	1140	Matrix *
Relinquished By	F.M. Hastic/CHPRC	Print	Sign	NOV 30 2015	1445	Received By	J. Bock, TARI	Print	Sign	NOV 30 2015	1445	S = Soil SE = Sediment SO = Solid SL = Sludge W = Water O = Oil A = Air DS = Drum Solids DL = Drum Liquids T = Tissue WI = 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



**CH2M Hill Plateau Remediation Company**

**CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST**

C.O.C. #  
**116-002-398**  
Page 1 of 1

Collector	J.R. Aguilar/CH2MHC	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650
SAF No.	116-002	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071
Project Title	100KR4, NOVEMBER 2015	Logbook No.	HNF-N-506 80 / 43	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
<b>POSSIBLE SAMPLE HAZARDS/REMARKS</b>			<b>SPECIAL INSTRUCTIONS</b>		
*** 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			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
B33BB0	N	W	11-30-15	1042	1x500-mL P	300.0 ANIONS_IC: COMMON	48 Hours	Cool <=6C

*Handwritten:* 11698  
w/2014/8

*Handwritten:* 12/3/15

December 07, 2015

Relinquished By	J.R. Aguilar/CH2MHC	Print	Sign	NOV 30 2015	Date/Time	1140	Received By	J.R. Aguilar/CH2MHC	Print	Sign	NOV 30 2015	Date/Time	1140	Matrix *
Relinquished By	<del>J.R. Aguilar/CH2MHC</del>	Print	Sign	NOV 30 2015	Date/Time	1445	Received By	<del>J.R. Aguilar/CH2MHC</del>	Print	Sign	NOV 30 2015	Date/Time	1445	S = Soil
Relinquished By	<del>J.R. Aguilar/CH2MHC</del>	Print	Sign	NOV 30 2015	Date/Time	1445	Received By	J. Bock, TARL	Print	Sign	NOV 30 2015	Date/Time	1445	SE = Sediment
Relinquished By		Print	Sign		Date/Time		Received By		Print	Sign		Date/Time		SO = Solid
Relinquished By		Print	Sign		Date/Time		Received By		Print	Sign		Date/Time		SL = Sludge
Relinquished By		Print	Sign		Date/Time		Received By		Print	Sign		Date/Time		W = Water
Relinquished By		Print	Sign		Date/Time		Received By		Print	Sign		Date/Time		O = Oil
Relinquished By		Print	Sign		Date/Time		Received By		Print	Sign		Date/Time		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. #  
116-002-204  
Page 1 of 1

Collector	J.R. Aguilar/CHPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650
SAF No.	116-002	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071
Project Title	100KR4, NOVEMBER 2015	Logbook No.	HNF-N-506 <u>50</u> / <u>43</u>	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:	30 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			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
B333H4	N	W	11-30-15	0948	1x500-mL P	300.0_ANIONS_IC: COMMON	48 Hours	Cool <=6C

*Handwritten:* 11694  
WCD042 1

*Handwritten:* 1213115

Relinquished By	J.R. Aguilar/CHPRC	Print	Sign	NOV 30 2015	Date/Time	1140	Received By	F.M. Heath/CHPRC	Print	Sign	NOV 30 2015	Date/Time	1140	Matrix *
Relinquished By	F.M. Heath/CHPRC	Print	Sign	NOV 30 2015	Date/Time	1445	Received By	J. Bock, TARL	Print	Sign	NOV 30 2015	Date/Time	1445	S = Soil
Relinquished By		Print	Sign		Date/Time		Received By		Print	Sign		Date/Time	SE = Sediment	
Relinquished By		Print	Sign		Date/Time		Received By		Print	Sign		Date/Time	SO = Solid	
Relinquished By		Print	Sign		Date/Time		Received By		Print	Sign		Date/Time	SL = Sludge	
Relinquished By		Print	Sign		Date/Time		Received By		Print	Sign		Date/Time	W = Water	
Relinquished By		Print	Sign		Date/Time		Received By		Print	Sign		Date/Time	O = Oil	
Relinquished By		Print	Sign		Date/Time		Received By		Print	Sign		Date/Time	A = Air	
Relinquished By		Print	Sign		Date/Time		Received By		Print	Sign		Date/Time	DS = Drum Solids	
Relinquished By		Print	Sign		Date/Time		Received By		Print	Sign		Date/Time	DL = Drum Liquids	
Relinquished By		Print	Sign		Date/Time		Received By		Print	Sign		Date/Time	T = Tissue	
Relinquished By		Print	Sign		Date/Time		Received By		Print	Sign		Date/Time	WI = Wipe	
Relinquished By		Print	Sign		Date/Time		Received By		Print	Sign		Date/Time	L = Liquid	
Relinquished By		Print	Sign		Date/Time		Received By		Print	Sign		Date/Time	V = Vegetation	
Relinquished By		Print	Sign		Date/Time		Received By		Print	Sign		Date/Time	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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December 07, 2015

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #  
116-002-385  
Page 1 of 1

Collector	J.R. Aguilar/CHPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650
SAF No.	116-002	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071
Project Title	100KR4, NOVEMBER 2015	Logbook No.	HNF-N-506 80/43	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
<b>POSSIBLE SAMPLE HAZARDS/REMARKS</b>			<b>SPECIAL INSTRUCTIONS</b>		
*** 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			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
B33B86	N	W	11-30-15	1212	1x500-ml P	300.0_ANIONS_IC: COMMON	48 Hours	Cool <=6C

Handwritten notes:   
 11697V  
 WCD64X  
 12/13/15

December 07, 2015

Relinquished By	J.R. Aguilar/CHPRC	Print	Sign	Date/Time	NOV 30 2015 1305	Received By	M.A. White/CHPRC	Print	Sign	Date/Time	NOV 30 2015 1305
Relinquished By	M.A. White/CHPRC	Print	Sign	Date/Time	NOV 30 2015 1445	Received By	J. Bock, TARL	Print	Sign	Date/Time	NOV 30 2015 1445

Matrix *	
S	= Soil
SE	= Sediment
SO	= Solid
SL	= Sludge
W	= Water
O	= Oil
A	= Air
DS	= Drum Solids
DL	= Drum Liquids
T	= Tissue
WI	= Wipe
L	= Liquid
V	= Vegetation
X	= Other

FINAL SAMPLE DISPOSITION	Reinquinshed By	Date/Time	Received By	Date/Time	Disposed By	Date/Time

Client: CH2M Hill Plateau Remediation Company  
 Project/Site: I16-002

TestAmerica Job ID: 300-1698-1  
 SDG: WC0641

**Client Sample ID: B333J5****Lab Sample ID: 300-1698-1**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.010		0.0040	0.0015	mg/L	1		7196A	Total/NA

**Client Sample ID: B333J7****Lab Sample ID: 300-1698-2**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.010		0.0040	0.0015	mg/L	1		7196A	Total/NA

**Client Sample ID: B333H6****Lab Sample ID: 300-1698-3**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.015		0.0040	0.0015	mg/L	1		7196A	Total/NA

**Client Sample ID: B333J0****Lab Sample ID: 300-1698-4**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.015		0.0040	0.0015	mg/L	1		7196A	Total/NA

**Client Sample ID: B333H7****Lab Sample ID: 300-1698-5**

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: B333J1****Lab Sample ID: 300-1698-6**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.015		0.0040	0.0015	mg/L	1		7196A	Total/NA

**Client Sample ID: B33414****Lab Sample ID: 300-1698-7**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.012		0.0040	0.0015	mg/L	1		7196A	Total/NA

**Client Sample ID: B33418****Lab Sample ID: 300-1698-8**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.012		0.0040	0.0015	mg/L	1		7196A	Total/NA

**Client Sample ID: B33413****Lab Sample ID: 300-1698-9**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.012		0.0040	0.0015	mg/L	1		7196A	Total/NA

**Client Sample ID: B33417****Lab Sample ID: 300-1698-10**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.013		0.0040	0.0015	mg/L	1		7196A	Total/NA

**Client Sample ID: B334K9****Lab Sample ID: 300-1698-11**

This Detection Summary does not include radiochemical test results.

TestAmerica Richland

Client: CH2M Hill Plateau Remediation Company  
Project/Site: I16-002

TestAmerica Job ID: 300-1698-1  
SDG: WC0641

**Client Sample ID: B334K9 (Continued)****Lab Sample ID: 300-1698-11**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.0026	B	0.0040	0.0015	mg/L	1		7196A	Total/NA

**Client Sample ID: B334K5****Lab Sample ID: 300-1698-12**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.0026	B	0.0040	0.0015	mg/L	1		7196A	Total/NA

**Client Sample ID: B333H5****Lab Sample ID: 300-1698-13**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	16	D	0.40	0.20	mg/L	2		300.0	Total/NA
Nitrate as N	5.5	D	0.056	0.028	mg/L	2		300.0	Total/NA
Fluoride	0.21	D	0.10	0.050	mg/L	2		300.0	Total/NA
Sulfate	84	D	0.50	0.25	mg/L	2		300.0	Total/NA

**Client Sample ID: B33BC7****Lab Sample ID: 300-1698-14**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	15	D	0.40	0.20	mg/L	2		300.0	Total/NA
Nitrate as N	4.9	D	0.056	0.028	mg/L	2		300.0	Total/NA
Fluoride	0.11	D	0.10	0.050	mg/L	2		300.0	Total/NA
Sulfate	68	D	0.50	0.25	mg/L	2		300.0	Total/NA

**Client Sample ID: B33B99****Lab Sample ID: 300-1698-15**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	14	D	0.40	0.20	mg/L	2		300.0	Total/NA
Nitrate as N	5.1	D	0.056	0.028	mg/L	2		300.0	Total/NA
Fluoride	0.19	D	0.10	0.050	mg/L	2		300.0	Total/NA
Sulfate	70	D	0.50	0.25	mg/L	2		300.0	Total/NA

**Client Sample ID: B33BB0****Lab Sample ID: 300-1698-16**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	14	D	0.40	0.20	mg/L	2		300.0	Total/NA
Nitrate as N	5.1	D	0.056	0.028	mg/L	2		300.0	Total/NA
Fluoride	0.19	D	0.10	0.050	mg/L	2		300.0	Total/NA
Sulfate	70	D	0.50	0.25	mg/L	2		300.0	Total/NA

**Client Sample ID: B333H4****Lab Sample ID: 300-1698-17**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	16	D	0.40	0.20	mg/L	2		300.0	Total/NA
Nitrate as N	5.5	D	0.056	0.028	mg/L	2		300.0	Total/NA
Fluoride	0.21	D	0.10	0.050	mg/L	2		300.0	Total/NA
Sulfate	85	D	0.50	0.25	mg/L	2		300.0	Total/NA

**Client Sample ID: B33B86****Lab Sample ID: 300-1698-18**

This Detection Summary does not include radiochemical test results.

TestAmerica Richland

December 07, 2015

### Detection Summary

Client: CH2M Hill Plateau Remediation Company  
Project/Site: I16-002

TestAmerica Job ID: 300-1698-1  
SDG: WC0641

**Client Sample ID: B33B86 (Continued)**

**Lab Sample ID: 300-1698-18**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	13	D	0.40	0.20	mg/L	2		300.0	Total/NA
Nitrate as N	5.6	D	0.056	0.028	mg/L	2		300.0	Total/NA
Fluoride	0.22	D	0.10	0.050	mg/L	2		300.0	Total/NA
Sulfate	71	D	0.50	0.25	mg/L	2		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Richland

Client: CH2M Hill Plateau Remediation Company  
Project/Site: I16-002

TestAmerica Job ID: 300-1698-1  
SDG: WC0641

**Client Sample ID: B333J5**

Date Collected: 11/30/15 12:12

Date Received: 11/30/15 14:45

**Lab Sample ID: 300-1698-1**

Matrix: Water

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.010		0.0040	0.0015	mg/L			11/30/15 18:35	1

**Client Sample ID: B333J7**

Date Collected: 11/30/15 12:12

Date Received: 11/30/15 14:45

**Lab Sample ID: 300-1698-2**

Matrix: Water

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.010		0.0040	0.0015	mg/L			11/30/15 18:36	1

**Client Sample ID: B333H6**

Date Collected: 11/30/15 09:48

Date Received: 11/30/15 14:45

**Lab Sample ID: 300-1698-3**

Matrix: Water

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.015		0.0040	0.0015	mg/L			11/30/15 18:36	1

**Client Sample ID: B333J0**

Date Collected: 11/30/15 09:48

Date Received: 11/30/15 14:45

**Lab Sample ID: 300-1698-4**

Matrix: Water

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.015		0.0040	0.0015	mg/L			11/30/15 18:37	1

**Client Sample ID: B333H7**

Date Collected: 11/30/15 09:48

Date Received: 11/30/15 14:45

**Lab Sample ID: 300-1698-5**

Matrix: Water

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.014		0.0040	0.0015	mg/L			11/30/15 18:37	1

**Client Sample ID: B333J1**

Date Collected: 11/30/15 09:48

Date Received: 11/30/15 14:45

**Lab Sample ID: 300-1698-6**

Matrix: Water

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.015		0.0040	0.0015	mg/L			11/30/15 18:37	1

**Client Sample ID: B33414**

Date Collected: 11/30/15 10:42

Date Received: 11/30/15 14:45

**Lab Sample ID: 300-1698-7**

Matrix: Water

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.012		0.0040	0.0015	mg/L			11/30/15 18:41	1

Client Sample Results

Client: CH2M Hill Plateau Remediation Company  
 Project/Site: I16-002

TestAmerica Job ID: 300-1698-1  
 SDG: WC0641

**Client Sample ID: B33418**  
 Date Collected: 11/30/15 10:42  
 Date Received: 11/30/15 14:45

**Lab Sample ID: 300-1698-8**  
 Matrix: Water

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.012		0.0040	0.0015	mg/L			11/30/15 18:41	1

**Client Sample ID: B33413**  
 Date Collected: 11/30/15 10:42  
 Date Received: 11/30/15 14:45

**Lab Sample ID: 300-1698-9**  
 Matrix: Water

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.012		0.0040	0.0015	mg/L			11/30/15 18:41	1

**Client Sample ID: B33417**  
 Date Collected: 11/30/15 10:42  
 Date Received: 11/30/15 14:45

**Lab Sample ID: 300-1698-10**  
 Matrix: Water

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.013		0.0040	0.0015	mg/L			11/30/15 18:41	1

**Client Sample ID: B334K9**  
 Date Collected: 11/30/15 10:29  
 Date Received: 11/30/15 14:45

**Lab Sample ID: 300-1698-11**  
 Matrix: Water

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.0026	B	0.0040	0.0015	mg/L			11/30/15 18:42	1

**Client Sample ID: B334K5**  
 Date Collected: 11/30/15 10:29  
 Date Received: 11/30/15 14:45

**Lab Sample ID: 300-1698-12**  
 Matrix: Water

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.0026	B	0.0040	0.0015	mg/L			11/30/15 18:42	1

**Client Sample ID: B333H5**  
 Date Collected: 11/30/15 09:48  
 Date Received: 11/30/15 14:45

**Lab Sample ID: 300-1698-13**  
 Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	16	D	0.40	0.20	mg/L			12/01/15 13:07	2
Nitrate as N	5.5	D	0.056	0.028	mg/L			12/01/15 13:07	2
Fluoride	0.21	D	0.10	0.050	mg/L			12/01/15 13:07	2
Nitrite as N	0.038	U	0.076	0.038	mg/L			12/01/15 13:07	2
Sulfate	84	D	0.50	0.25	mg/L			12/01/15 13:07	2

Client: CH2M Hill Plateau Remediation Company  
Project/Site: I16-002

TestAmerica Job ID: 300-1698-1  
SDG: WC0641

**Client Sample ID: B33BC7**

Date Collected: 11/30/15 10:29

Date Received: 11/30/15 14:45

**Lab Sample ID: 300-1698-14**

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	15	D	0.40	0.20	mg/L			12/01/15 13:52	2
Nitrate as N	4.9	D	0.056	0.028	mg/L			12/01/15 13:52	2
Fluoride	0.11	D	0.10	0.050	mg/L			12/01/15 13:52	2
Nitrite as N	0.038	U	0.076	0.038	mg/L			12/01/15 13:52	2
Sulfate	68	D	0.50	0.25	mg/L			12/01/15 13:52	2

**Client Sample ID: B33B99**

Date Collected: 11/30/15 10:42

Date Received: 11/30/15 14:45

**Lab Sample ID: 300-1698-15**

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14	D	0.40	0.20	mg/L			12/01/15 14:07	2
Nitrate as N	5.1	D	0.056	0.028	mg/L			12/01/15 14:07	2
Fluoride	0.19	D	0.10	0.050	mg/L			12/01/15 14:07	2
Nitrite as N	0.038	U	0.076	0.038	mg/L			12/01/15 14:07	2
Sulfate	70	D	0.50	0.25	mg/L			12/01/15 14:07	2

**Client Sample ID: B33BB0**

Date Collected: 11/30/15 10:42

Date Received: 11/30/15 14:45

**Lab Sample ID: 300-1698-16**

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14	D	0.40	0.20	mg/L			12/01/15 14:22	2
Nitrate as N	5.1	D	0.056	0.028	mg/L			12/01/15 14:22	2
Fluoride	0.19	D	0.10	0.050	mg/L			12/01/15 14:22	2
Nitrite as N	0.038	U	0.076	0.038	mg/L			12/01/15 14:22	2
Sulfate	70	D	0.50	0.25	mg/L			12/01/15 14:22	2

**Client Sample ID: B333H4**

Date Collected: 11/30/15 09:48

Date Received: 11/30/15 14:45

**Lab Sample ID: 300-1698-17**

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	16	D	0.40	0.20	mg/L			12/01/15 14:37	2
Nitrate as N	5.5	D	0.056	0.028	mg/L			12/01/15 14:37	2
Fluoride	0.21	D	0.10	0.050	mg/L			12/01/15 14:37	2
Nitrite as N	0.038	U	0.076	0.038	mg/L			12/01/15 14:37	2
Sulfate	85	D	0.50	0.25	mg/L			12/01/15 14:37	2

**Client Sample ID: B33B86**

Date Collected: 11/30/15 12:12

Date Received: 11/30/15 14:45

**Lab Sample ID: 300-1698-18**

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13	D	0.40	0.20	mg/L			12/01/15 14:52	2
Nitrate as N	5.6	D	0.056	0.028	mg/L			12/01/15 14:52	2

Client Sample Results

Client: CH2M Hill Plateau Remediation Company  
 Project/Site: I16-002

TestAmerica Job ID: 300-1698-1  
 SDG: WC0641

**Client Sample ID: B33B86**  
**Date Collected: 11/30/15 12:12**  
**Date Received: 11/30/15 14:45**

**Lab Sample ID: 300-1698-18**  
**Matrix: Water**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.22	D	0.10	0.050	mg/L			12/01/15 14:52	2
Nitrite as N	0.038	U	0.076	0.038	mg/L			12/01/15 14:52	2
Sulfate	71	D	0.50	0.25	mg/L			12/01/15 14:52	2

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

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 300-2193/5  
Matrix: Water  
Analysis Batch: 2193

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			12/01/15 12:37	1
Nitrite as N	0.019	U	0.038	0.019	mg/L			12/01/15 12:37	1

Lab Sample ID: LCS 300-2193/6  
Matrix: Water  
Analysis Batch: 2193

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	2.37		mg/L		105	80 - 120
Nitrite as N	3.04	3.20		mg/L		105	80 - 120

Lab Sample ID: 300-1698-13 MS  
Matrix: Water  
Analysis Batch: 2193

Client Sample ID: B333H5  
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	5.5	D	0.452	5.93	D	mg/L		98	75 - 125
Nitrite as N	0.038	U	0.609	0.554	D	mg/L		91	75 - 125

Lab Sample ID: 300-1698-13 DU  
Matrix: Water  
Analysis Batch: 2193

Client Sample ID: B333H5  
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Nitrate as N	5.5	D	5.48	D	mg/L		0.2	20
Nitrite as N	0.038	U	0.038	U	mg/L		NC	20

Lab Sample ID: MB 300-2194/5  
Matrix: Water  
Analysis Batch: 2194

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			12/01/15 12:37	1
Fluoride	0.025	U	0.050	0.025	mg/L			12/01/15 12:37	1
Sulfate	0.13	U	0.25	0.13	mg/L			12/01/15 12:37	1

Lab Sample ID: LCS 300-2194/6  
Matrix: Water  
Analysis Batch: 2194

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	16.6		mg/L		104	80 - 120
Fluoride	4.00	4.16		mg/L		104	80 - 120
Sulfate	20.0	20.6		mg/L		103	80 - 120

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 300-1698-13 MS  
Matrix: Water  
Analysis Batch: 2194

Client Sample ID: B333H5  
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	16	D	3.20	18.9	D	mg/L		100	75 - 125
Fluoride	0.21	D	0.800	0.973	D	mg/L		95	75 - 125
Sulfate	84	D	4.00	88.1	D	mg/L		96	75 - 125

Lab Sample ID: 300-1698-13 DU  
Matrix: Water  
Analysis Batch: 2194

Client Sample ID: B333H5  
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chloride	16	D	15.7	D	mg/L		0.2	20
Fluoride	0.21	D	0.209	D	mg/L		0.3	20
Sulfate	84	D	84.3	D	mg/L		0	20

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 300-2186/3  
Matrix: Water  
Analysis Batch: 2186

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			11/30/15 18:32	1

Lab Sample ID: LCS 300-2186/4  
Matrix: Water  
Analysis Batch: 2186

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	0.259		mg/L		104	80 - 120

Lab Sample ID: 300-1698-1 MS  
Matrix: Water  
Analysis Batch: 2186

Client Sample ID: B333J5  
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cr (VI)	0.010		0.0500	0.0648		mg/L		109	85 - 115

Lab Sample ID: 300-1698-1 DU  
Matrix: Water  
Analysis Batch: 2186

Client Sample ID: B333J5  
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Cr (VI)	0.010		0.0100		mg/L		2	20

**HPLC/IC****Analysis Batch: 2193**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
300-1698-13	B333H5	Total/NA	Water	300.0	
300-1698-13 DU	B333H5	Total/NA	Water	300.0	
300-1698-13 MS	B333H5	Total/NA	Water	300.0	
300-1698-14	B33BC7	Total/NA	Water	300.0	
300-1698-15	B33B99	Total/NA	Water	300.0	
300-1698-16	B33BB0	Total/NA	Water	300.0	
300-1698-17	B333H4	Total/NA	Water	300.0	
300-1698-18	B33B86	Total/NA	Water	300.0	
LCS 300-2193/6	Lab Control Sample	Total/NA	Water	300.0	
MB 300-2193/5	Method Blank	Total/NA	Water	300.0	

**Analysis Batch: 2194**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
300-1698-13	B333H5	Total/NA	Water	300.0	
300-1698-13 DU	B333H5	Total/NA	Water	300.0	
300-1698-13 MS	B333H5	Total/NA	Water	300.0	
300-1698-14	B33BC7	Total/NA	Water	300.0	
300-1698-15	B33B99	Total/NA	Water	300.0	
300-1698-16	B33BB0	Total/NA	Water	300.0	
300-1698-17	B333H4	Total/NA	Water	300.0	
300-1698-18	B33B86	Total/NA	Water	300.0	
LCS 300-2194/6	Lab Control Sample	Total/NA	Water	300.0	
MB 300-2194/5	Method Blank	Total/NA	Water	300.0	

**General Chemistry****Analysis Batch: 2186**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
300-1698-1	B333J5	Total/NA	Water	7196A	
300-1698-1 DU	B333J5	Total/NA	Water	7196A	
300-1698-1 MS	B333J5	Total/NA	Water	7196A	
300-1698-2	B333J7	Total/NA	Water	7196A	
300-1698-3	B333H6	Total/NA	Water	7196A	
300-1698-4	B333J0	Total/NA	Water	7196A	
300-1698-5	B333H7	Total/NA	Water	7196A	
300-1698-6	B333J1	Total/NA	Water	7196A	
300-1698-7	B33414	Total/NA	Water	7196A	
300-1698-8	B33418	Total/NA	Water	7196A	
300-1698-9	B33413	Total/NA	Water	7196A	
300-1698-10	B33417	Total/NA	Water	7196A	
300-1698-11	B334K9	Total/NA	Water	7196A	
300-1698-12	B334K5	Total/NA	Water	7196A	
LCS 300-2186/4	Lab Control Sample	Total/NA	Water	7196A	
MB 300-2186/3	Method Blank	Total/NA	Water	7196A	

**Client Sample ID: B333J5**

Date Collected: 11/30/15 12:12

Date Received: 11/30/15 14:45

**Lab Sample ID: 300-1698-1**

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			2186	11/30/15 18:35	AMC	TAL RCH

**Client Sample ID: B333J7**

Date Collected: 11/30/15 12:12

Date Received: 11/30/15 14:45

**Lab Sample ID: 300-1698-2**

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			2186	11/30/15 18:36	AMC	TAL RCH

**Client Sample ID: B333H6**

Date Collected: 11/30/15 09:48

Date Received: 11/30/15 14:45

**Lab Sample ID: 300-1698-3**

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			2186	11/30/15 18:36	AMC	TAL RCH

**Client Sample ID: B333J0**

Date Collected: 11/30/15 09:48

Date Received: 11/30/15 14:45

**Lab Sample ID: 300-1698-4**

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			2186	11/30/15 18:37	AMC	TAL RCH

**Client Sample ID: B333H7**

Date Collected: 11/30/15 09:48

Date Received: 11/30/15 14:45

**Lab Sample ID: 300-1698-5**

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			2186	11/30/15 18:37	AMC	TAL RCH

**Client Sample ID: B333J1**

Date Collected: 11/30/15 09:48

Date Received: 11/30/15 14:45

**Lab Sample ID: 300-1698-6**

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			2186	11/30/15 18:37	AMC	TAL RCH

Client: CH2M Hill Plateau Remediation Company  
 Project/Site: I16-002

TestAmerica Job ID: 300-1698-1  
 SDG: WC0641

**Client Sample ID: B33414**

**Date Collected: 11/30/15 10:42**

**Date Received: 11/30/15 14:45**

**Lab Sample ID: 300-1698-7**

**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			2186	11/30/15 18:41	AMC	TAL RCH

**Client Sample ID: B33418**

**Date Collected: 11/30/15 10:42**

**Date Received: 11/30/15 14:45**

**Lab Sample ID: 300-1698-8**

**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			2186	11/30/15 18:41	AMC	TAL RCH

**Client Sample ID: B33413**

**Date Collected: 11/30/15 10:42**

**Date Received: 11/30/15 14:45**

**Lab Sample ID: 300-1698-9**

**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			2186	11/30/15 18:41	AMC	TAL RCH

**Client Sample ID: B33417**

**Date Collected: 11/30/15 10:42**

**Date Received: 11/30/15 14:45**

**Lab Sample ID: 300-1698-10**

**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			2186	11/30/15 18:41	AMC	TAL RCH

**Client Sample ID: B334K9**

**Date Collected: 11/30/15 10:29**

**Date Received: 11/30/15 14:45**

**Lab Sample ID: 300-1698-11**

**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			2186	11/30/15 18:42	AMC	TAL RCH

**Client Sample ID: B334K5**

**Date Collected: 11/30/15 10:29**

**Date Received: 11/30/15 14:45**

**Lab Sample ID: 300-1698-12**

**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			2186	11/30/15 18:42	AMC	TAL RCH

**Client Sample ID: B333H5**

**Lab Sample ID: 300-1698-13**

Date Collected: 11/30/15 09:48

Matrix: Water

Date Received: 11/30/15 14:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		2	10 mL		2193	12/01/15 13:07	CPM	TAL RCH
Total/NA	Analysis	300.0		2	10 mL		2194	12/01/15 13:07	CPM	TAL RCH

**Client Sample ID: B33BC7**

**Lab Sample ID: 300-1698-14**

Date Collected: 11/30/15 10:29

Matrix: Water

Date Received: 11/30/15 14:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		2	10 mL		2193	12/01/15 13:52	CPM	TAL RCH
Total/NA	Analysis	300.0		2	10 mL		2194	12/01/15 13:52	CPM	TAL RCH

**Client Sample ID: B33B99**

**Lab Sample ID: 300-1698-15**

Date Collected: 11/30/15 10:42

Matrix: Water

Date Received: 11/30/15 14:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		2	10 mL		2193	12/01/15 14:07	CPM	TAL RCH
Total/NA	Analysis	300.0		2	10 mL		2194	12/01/15 14:07	CPM	TAL RCH

**Client Sample ID: B33BB0**

**Lab Sample ID: 300-1698-16**

Date Collected: 11/30/15 10:42

Matrix: Water

Date Received: 11/30/15 14:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		2	10 mL		2193	12/01/15 14:22	CPM	TAL RCH
Total/NA	Analysis	300.0		2	10 mL		2194	12/01/15 14:22	CPM	TAL RCH

**Client Sample ID: B333H4**

**Lab Sample ID: 300-1698-17**

Date Collected: 11/30/15 09:48

Matrix: Water

Date Received: 11/30/15 14:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		2	10 mL		2193	12/01/15 14:37	CPM	TAL RCH
Total/NA	Analysis	300.0		2	10 mL		2194	12/01/15 14:37	CPM	TAL RCH

**Client Sample ID: B33B86**

**Lab Sample ID: 300-1698-18**

Date Collected: 11/30/15 12:12

Matrix: Water

Date Received: 11/30/15 14:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		2	10 mL		2193	12/01/15 14:52	CPM	TAL RCH

**Client Sample ID: B33B86**

**Lab Sample ID: 300-1698-18**

Date Collected: 11/30/15 12:12

Matrix: Water

Date Received: 11/30/15 14:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		2	10 mL		2194	12/01/15 14:52	CPM	TAL RCH

**Client Sample ID: B333J5**

**Lab Sample ID: 300-1698-1 DU**

Date Collected: 11/30/15 12:12

Matrix: Water

Date Received: 11/30/15 14:45

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			2186	11/30/15 18:36	AMC	TAL RCH

**Client Sample ID: B333H5**

**Lab Sample ID: 300-1698-13 DU**

Date Collected: 11/30/15 09:48

Matrix: Water

Date Received: 11/30/15 14:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		2	10 mL		2193	12/01/15 13:37	CPM	TAL RCH
Total/NA	Analysis	300.0		2	10 mL		2194	12/01/15 13:37	CPM	TAL RCH

**Client Sample ID: Lab Control Sample**

**Lab Sample ID: LCS 300-2186/4**

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			2186	11/30/15 18:32	AMC	TAL RCH

**Client Sample ID: Lab Control Sample**

**Lab Sample ID: LCS 300-2193/6**

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	10 mL		2193	12/01/15 12:52	CPM	TAL RCH

**Client Sample ID: Lab Control Sample**

**Lab Sample ID: LCS 300-2194/6**

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	10 mL		2194	12/01/15 12:52	CPM	TAL RCH

Client: CH2M Hill Plateau Remediation Company  
 Project/Site: I16-002

TestAmerica Job ID: 300-1698-1  
 SDG: WC0641

**Client Sample ID: Method Blank**

**Lab Sample ID: MB 300-2186/3**

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			2186	11/30/15 18:32	AMC	TAL RCH

**Client Sample ID: Method Blank**

**Lab Sample ID: MB 300-2193/5**

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	10 mL		2193	12/01/15 12:37	CPM	TAL RCH

**Client Sample ID: Method Blank**

**Lab Sample ID: MB 300-2194/5**

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	10 mL		2194	12/01/15 12:37	CPM	TAL RCH

**Client Sample ID: B333J5**

**Lab Sample ID: 300-1698-1 MS**

Date Collected: 11/30/15 12:12

Matrix: Water

Date Received: 11/30/15 14:45

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	2186	11/30/15 18:33	AMC	TAL RCH

**Client Sample ID: B333H5**

**Lab Sample ID: 300-1698-13 MS**

Date Collected: 11/30/15 09:48

Matrix: Water

Date Received: 11/30/15 14:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		2	10 mL		2193	12/01/15 13:22	CPM	TAL RCH
Total/NA	Analysis	300.0		2	10 mL		2194	12/01/15 13:22	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: I16-002

TestAmerica Job ID: 300-1698-1  
SDG: WC0641

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



Lab Sample ID	Client Sample ID	Matrix	Collected	Received
300-1698-1	B333J5	Water	11/30/15 12:12	11/30/15 14:45
300-1698-2	B333J7	Water	11/30/15 12:12	11/30/15 14:45
300-1698-3	B333H6	Water	11/30/15 09:48	11/30/15 14:45
300-1698-4	B333J0	Water	11/30/15 09:48	11/30/15 14:45
300-1698-5	B333H7	Water	11/30/15 09:48	11/30/15 14:45
300-1698-6	B333J1	Water	11/30/15 09:48	11/30/15 14:45
300-1698-7	B33414	Water	11/30/15 10:42	11/30/15 14:45
300-1698-8	B33418	Water	11/30/15 10:42	11/30/15 14:45
300-1698-9	B33413	Water	11/30/15 10:42	11/30/15 14:45
300-1698-10	B33417	Water	11/30/15 10:42	11/30/15 14:45
300-1698-11	B334K9	Water	11/30/15 10:29	11/30/15 14:45
300-1698-12	B334K5	Water	11/30/15 10:29	11/30/15 14:45
300-1698-13	B333H5	Water	11/30/15 09:48	11/30/15 14:45
300-1698-14	B33BC7	Water	11/30/15 10:29	11/30/15 14:45
300-1698-15	B33B99	Water	11/30/15 10:42	11/30/15 14:45
300-1698-16	B33BB0	Water	11/30/15 10:42	11/30/15 14:45
300-1698-17	B333H4	Water	11/30/15 09:48	11/30/15 14:45
300-1698-18	B33B86	Water	11/30/15 12:12	11/30/15 14:45



### Login Sample Receipt Checklist

Client: CH2M Hill Plateau Remediation Company

Job Number: 300-1698-1

SDG Number: WC0641

**Login Number: 1698**

**List Number: 1**

**Creator: Bock, Julie A**

**List Source: TestAmerica Richland**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> 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 <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	