

03/22/2018

REV.0

# 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: 300-6872-1  
TestAmerica Sample Delivery Group: WC2769  
Client Project/Site: S18-003

For:  
CH2M Hill Plateau Remediation Company  
825 Jadwin Avenue  
Richland, Washington 99352

Attn: CPP Sample Management



Authorized for release by:  
3/22/2018 12:10:45 PM

Ashley Worthy, Project Manager I  
(509)375-3131  
[ashley.worthy@testamericainc.com](mailto:ashley.worthy@testamericainc.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



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

*I certify that this Certificate of Analysis is in compliance with the SOW, both technically and for completeness, for other than the conditions detailed in this package. Release of the data contained in this hard copy data package has been authorized by the Laboratory Manager, or a designee as verified by the attached signature.*

*The laboratory is accredited to EPA 7196A in Solid and Chemical Materials, per Washington State Department of Ecology this is approved for non-discharge water samples.*

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Client: CH2M Hill Plateau Remediation Company  
 Project/Site: S18-003

TestAmerica Job ID: 300-6872-1  
 SDG: WC2769

**Qualifiers**

**General Chemistry**

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

**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	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
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: S18-003

TestAmerica Job ID: 300-6872-1  
SDG: WC2769

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**Job ID: 300-6872-1**

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**Laboratory: TestAmerica Richland**

**Narrative**

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**Job Narrative**  
**300-6872-1**

**Comments**

No additional comments.

**Receipt**

The samples were received on 3/14/2018 2:30 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.4° C.

**General Chemistry**

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

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<b>CH2M Hill Plateau Remediation Company</b>	<b>CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST</b>	C.O.C.# <b>S18-003-213</b>
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<b>Collector:</b> Roger Friesz Jr. /CHPRC	<b>Contact/Requester:</b> Karen Waters-Husted	<b>Telephone No.:</b> 509-376-4650
<b>CAF No.:</b> S18-003	<b>Sampling Origin:</b> Hanford Site	<b>Purchase Order/Charge Code:</b> 300071
<b>Project Title:</b> CERCLA, MARCH 2018	<b>Logbook No.:</b> HNF-N-506 -97/74	<b>Ice Chest No.:</b> N/A
<b>Shipped To (Lab):</b> TestAmerica Incorporated, Rich	<b>Method of Shipment:</b> GOVERNMENT VEHICLE	<b>Bill of Lading/Air Bill No.:</b> N/A
<b>Protocol:</b> CERCLA	<b>Priority:</b> 30 Days	<b>Offsite Property No.:</b> N/A

<b>POSSIBLE SAMPLE HAZARDS/REMARK</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	<b>SPECIAL INSTRUCTIONS</b> N/A
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Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B3HFL3	Y	W	3-14-18	0700	1x60-mL aG	7196_CR6: COMMON	24 Hours	Cool <=6C
B3HFK9	N	W	3-14-18	0700	1x60-mL aG	7196_CR6: COMMON	24 Hours	Cool <=6C

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300-6872 COC

Relinquished By: Roger Friesz Jr. /CHPRC <i>[Signature]</i> MAR 14 2018 1100 Print First and Last Name      Signature      Date/Time	Received By: Daniel Klug CHPRC <i>[Signature]</i> MAR 14 2018 1100 Print First and Last Name      Signature      Date/Time	<b>Matrix *</b> S = Soil      DS = Drum Solids SE = Sediment      DL = Drum Liquid SO = Solid      T = Tissue SL = Sludge      WI = Wipe W = Water      L = Liquid O = Oil      V = Vegetation A = Air      X = Other	
Relinquished By: Daniel Klug CHPRC <i>[Signature]</i> MAR 14 2018 1430 Print First and Last Name      Signature      Date/Time	Received By: E. Jorgenson, TARL <i>[Signature]</i> 3-14-18 1430 Print First and Last Name      Signature      Date/Time		
Relinquished By: Print First and Last Name      Signature      Date/Time	Received By: Print First and Last Name      Signature      Date/Time		
Relinquished By: Print First and Last Name      Signature      Date/Time	Received By: Print First and Last Name      Signature      Date/Time		
<b>FINAL SAMPLE DISPOSITION</b> Disposal Method (e.g., Return to customer, per lab procedure, used in process):		Disposed By:	Date/Time:

<b>CH2M Hill Plateau Remediation Company</b>	<b>CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST</b>	C.O.C.# <b>S18-003-215</b>
		Page 1 of 1

<b>Collector:</b> Roger Friesz Jr. ICHPRC	<b>Contact/Requester:</b> Karen Waters-Husted	<b>Telephone No.:</b> 509-376-4650
<b>SAF No.:</b> S18-003	<b>Sampling Origin:</b> Hanford Site	<b>Purchase Order/Charge Code:</b> 300071
<b>Project Title:</b> CERCLA, MARCH 2018	<b>Logbook No.:</b> HNF-N-506 -97/74	<b>Ice Chest No.:</b> N/A
<b>Shipped To (Lab):</b> TestAmerica Incorporated, Rich	<b>Method of Shipment:</b> GOVERNMENT VEHICLE	<b>Bill of Lading/Air Bill No.:</b> N/A
<b>Protocol:</b> CERCLA	<b>Priority:</b> 30 Days	<b>Offsite Property No.:</b> N/A

<b>POSSIBLE SAMPLE HAZARDS/REMARK</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	<b>SPECIAL INSTRUCTIONS</b> N/A
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Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B3HFL4	Y	W	3-14-18	0809	1x60-mL aG	7196_CR6: COMMON	24 Hours	Cool <=6C
B3HFL0	N	W	3-14-18	0809	1x60-mL aG	7196_CR6: COMMON	24 Hours	Cool <=6C

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Relinquished By: Roger Friesz Jr. ICHPRC <i>[Signature]</i> MAR 14 2018 1100 Print First and Last Name      Signature      Date/Time	Received By: Daniel Klug CHPRC <i>[Signature]</i> MAR 14 2018 1100 Print First and Last Name      Signature      Date/Time	<b>Matrix *</b> S = Soil      DS = Drum Solids SE = Sediment      DL = Drum Liquid SO = Solid      T = Tissue SL = Sludge      WI = Wipe W = Water      L = Liquid O = Oil      V = Vegetation A = Air      X = Other		
Relinquished By: Daniel Klug CHPRC <i>[Signature]</i> MAR 14 2018 1430 Print First and Last Name      Signature      Date/Time	Received By: B. Jorgenson, TARL <i>[Signature]</i> 3-14-18/1430 Print First and Last Name      Signature      Date/Time			
Relinquished By: Print First and Last Name      Signature      Date/Time	Received By: Print First and Last Name      Signature      Date/Time			
Relinquished By: Print First and Last Name      Signature      Date/Time	Received By: Print First and Last Name      Signature      Date/Time			
<b>FINAL SAMPLE DISPOSITION</b>		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.# S18-003-211			
					Page 1 of 1			
Collector: Roger Friesz Jr. /CHPRC		Contact/Requester: Karen Waters-Husted		Telephone No.: 509-376-4650				
SAF No.: S18-003		Sampling Origin: Hanford Site		Purchase Order/Charge Code: 300071				
Project Title: CERCLA, MARCH 2018		Logbook No.: HNF-N-506 -97/74		Ice Chest No.: N/A				
Shipped To (Lab): TestAmerica Incorporated, Rich		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/REMARK</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				<b>SPECIAL INSTRUCTIONS</b> N/A				
Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B3HFK1	N	W	3-14-18	0824	1x60-mL aG	7196_CR6: COMMON	24 Hours	Cool <=6C
B3HFK3	Y	W	3-14-18	0824	1x60-mL aG	7196_CR6: COMMON	24 Hours	Cool <=6C

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Relinquished By: Roger Friesz Jr. /CHPRC	MAR 14 2018 1100	Received By: Daniel Klug CHPRC	MAR 14 2018 1100	Matrix * S = Soil      DS = Drum Solids SE = Sediment      DL = Drum Liquid SO = Solid      T = Tissue SL = Sludge      WI = Wipe W = Water      L = Liquid O = Oil      V = Vegetation A = Air      X = Other
Print First and Last Name	Signature	Date/Time	Date/Time	
Relinquished By: Daniel Klug	MAR 14 2018 1430	Received By: B. Jorgenson, TARL	3-14-18/1430	
Print First and Last Name	Signature	Date/Time	Date/Time	
Relinquished By:	Signature	Date/Time	Date/Time	
Relinquished By:	Signature	Date/Time	Date/Time	
<b>FINAL SAMPLE DISPOSITION</b>	Disposal Method (e.g., Return to customer, per lab procedure, used in process):		Disposed By:	Date/Time:

<b>CH2M Hill Plateau Remediation Company</b>	<b>CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST</b>	C.O.C.# <b>S18-003-219</b>
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<b>Collector:</b> <u>Kathy Turner</u> CHPRC	<b>Contact/Requester:</b> Karen Waters-Husted	<b>Telephone No.:</b> 509-376-4650
<b>SAF No.:</b> S18-003	<b>Sampling Origin:</b> Hanford Site	<b>Purchase Order/Charge Code:</b> 300071
<b>Project Title:</b> CERCLA, MARCH 2018	<b>Logbook No.:</b> HNF-N-506 -100-2	<b>Ice Chest No.:</b> N/A
<b>Shipped To (Lab):</b> TestAmerica Incorporated, Rich	<b>Method of Shipment:</b> GOVERNMENT VEHICLE	<b>Bill of Lading/Air Bill No.:</b> N/A
<b>Protocol:</b> CERCLA	<b>Priority:</b> 30 Days	<b>Offsite Property No.:</b> N/A

<b>POSSIBLE SAMPLE HAZARDS/REMARK</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	<b>SPECIAL INSTRUCTIONS</b> N/A
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Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B3HFW6	Y	W	MAR 14 2018	0832	1x60-mL aG	7196_CR6: COMMON	24 Hours	Cool <=6C
B3HPH2	N	W	↓	↓	1x60-mL aG	7196_CR6: COMMON	24 Hours	Cool <=6C

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Relinquished By: <u>Kathy Turner</u> Print First and Last Name      Signature      MAR 14 2018 1040 Date/Time	Received By: <u>Daniel Klug</u> Print First and Last Name      Signature      MAR 14 2018 1040 Date/Time	Matrix * S = Soil      DS = Drum Solids SE = Sediment      DL = Drum Liquid SO = Solid      T = Tissue SL = Sludge      WI = Wipe W = Water      L = Liquid O = Oil      V = Vegetation A = Air      X = Other		
Relinquished By: <u>Daniel Klug</u> Print First and Last Name      Signature      MAR 14 2018 1430 Date/Time	Received By: <u>B. Jorgenson, TARL</u> Print First and Last Name      Signature      3-14-18/1430 Date/Time			
Relinquished By: Print First and Last Name      Signature      Date/Time	Received By: Print First and Last Name      Signature      Date/Time			
Relinquished By: Print First and Last Name      Signature      Date/Time	Received By: Print First and Last Name      Signature      Date/Time			
<b>FINAL SAMPLE DISPOSITION</b>		Disposal Method (e.g., Return to customer, per lab procedure, used in process):	Disposed By:	Date/Time:

<b>CH2M Hill Plateau Remediation Company</b>	<b>CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST</b>	C.O.C.# <b>S18-003-217</b>
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REVISION

Collector: Roger Friesz Jr. <small>CHPRC</small>	Contact/Requester: Karen Waters-Husted	Telephone No.: 509-376-4650
SAF No.: S18-003	Sampling Origin: Hanford Site	Purchase Order/Charge Code: 300071
Project Title: CERCLA, MARCH 2018	Logbook No.: HNF-N-506 - 97/74	Ice Chest No.: N/A
Shipped To (Lab): TestAmerica Incorporated, Rich	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/REMARK**  
 \*\* \*\* 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**  
 N/A

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B3HFL8	N	W	3-14-18	0835	1x60-mL aG	7196_CR6: COMMON	24 Hours	Cool <=6C
B3HFM0	Y	W	3-14-18	0835	1x60-mL aG	7196_CR6: COMMON	24 Hours	Cool <=6C

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Relinquished By: Roger Friesz Jr. <small>CHPRC</small> <i>[Signature]</i> MAR 14 2018 1100 <small>Print First and Last Name Signature Date/Time</small>	Received By: Daniel Klug <small>CHPRC</small> <i>[Signature]</i> MAR 14 2018 1106 <small>Print First and Last Name Signature Date/Time</small>	<b>Matrix *</b> S = Soil DS = Drum Solids SE = Sediment DL = Drum Liquid SO = Solid T = Tissue SL = Sludge WI = Wipe W = Water L = Liquid O = Oil V = Vegetation A = Air X = Other	
Relinquished By: Daniel Klug <small>CHPRC</small> <i>[Signature]</i> MAR 14 2018 1430 <small>Print First and Last Name Signature Date/Time</small>	Received By: B. Jorgenson, TARL <small>CHPRC</small> <i>[Signature]</i> 3-14-18/1430 <small>Print First and Last Name Signature Date/Time</small>		
Relinquished By: <small>Print First and Last Name Signature Date/Time</small>	Received By: <small>Print First and Last Name Signature Date/Time</small>		
Relinquished By: <small>Print First and Last Name Signature Date/Time</small>	Received By: <small>Print First and Last Name Signature Date/Time</small>		
<b>FINAL SAMPLE DISPOSITION</b> Disposal Method (e.g., Return to customer, per lab procedure, used in process):		Disposed By:	Date/Time:

<b>CH2M Hill Plateau Remediation Company</b>	<b>CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST</b>	C.O.C. # <b>S18-003-221</b>
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Collector: <b>Kathy Turner /CHPRC</b>	Contact/Requester: Karen Waters-Husted	Telephone No.: 509-376-4650
SAF No.: S18-003	Sampling Origin: Hanford Site	Purchase Order/Charge Code: 300071
Project Title: CERCLA, MARCH 2018	Logbook No.: HNF-N-506-100-2	Ice Chest No.: N/A
Shipped To (Lab): <b>TestAmerica Incorporated, Rich</b>	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/REMARK**  
 \*\* \*\* 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**  
 N/A

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B3HFX0	N	W	MAR 14 2018	0900	1x60-mL aG	7196_CR6: COMMON	24 Hours	Cool <=6C
B3HFX2	Y	W	↓	↓	1x60-mL aG	7196_CR6: COMMON	24 Hours	Cool <=6C

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Relinquished By: <b>Kathy Turner /CHPRC</b> <i>Kathy Turner</i> MAR 14 2018 1040 <small>Print First and Last Name Signature Date/Time</small>	Received By: <b>Daniel Klug CHPRC</b> <i>D. Klug</i> MAR 14 2018 1040 <small>Print First and Last Name Signature Date/Time</small>	<b>Matrix *</b> S = Soil DS = Drum Solids SE = Sediment DL = Drum Liquid SO = Solid T = Tissue SL = Sludge WI = Wipe W = Water L = Liquid O = Oil V = Vegetation A = Air X = Other
Relinquished By: <b>Daniel Klug CHPRC</b> <i>D. Klug</i> MAR 14 2018 1430 <small>Print First and Last Name Signature Date/Time</small>	Received By: <b>B. Jorgenson, TARA</b> <i>B. Jorgenson</i> 3-14-18/1430 <small>Print First and Last Name Signature Date/Time</small>	
Relinquished By: <small>Print First and Last Name Signature Date/Time</small>	Received By: <small>Print First and Last Name Signature Date/Time</small>	
Relinquished By: <small>Print First and Last Name Signature Date/Time</small>	Received By: <small>Print First and Last Name Signature Date/Time</small>	
<b>FINAL SAMPLE DISPOSITION</b> Disposal Method (e.g., Return to customer, per lab procedure, used in process): <small>Print First and Last Name Signature Date/Time</small>	Disposed By: <small>Print First and Last Name Signature Date/Time</small>	

<b>CH2MHill Plateau Remediation Company</b>	<b>CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST</b>	C.O.C. # <b>S18-003-233</b>
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Collector: <b>Kathy Turner /CHPRC</b>	Contact/Requester: Karen Waters-Husted	Telephone No.: 509-376-4650
SAF No.: S18-003	Sampling Origin: Hanford Site	Purchase Order/Charge Code: 300071
Project Title: CERCLA, MARCH 2018	Logbook No.: HNF-N-506 <i>r-00-2</i>	Ice Chest No.: N/A
Shipped To (Lab): <b>TestAmerica Incorporated, Rich</b>	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/REMARK**  
 \*\* \*\* 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**  
 N/A

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B3HJ05	N	W	MAR 14 2018	0922	1x60-mL aG	7196_CR6: COMMON	24 Hours	Cool <=6C
B3HJ07	Y	W	↓	↓	1x60-mL aG	7196_CR6: COMMON	24 Hours	Cool <=6C

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Relinquished By: <b>Kathy Turner /CHPRC</b> <i>Kathy Turner</i> MAR 14 2018 <i>1040</i> <small>Print First and Last Name      Signature      Date/Time</small>	Received By: <b>Daniel Klug CHPRC</b> <i>D. Klug</i> MAR 14 2018 1040 <small>Print First and Last Name      Signature      Date/Time</small>	<b>Matrix *</b> S = Soil      DS = Drum Solids SE = Sediment      DL = Drum Liquid SO = Solid      T = Tissue SL = Sludge      WI = Wipe W = Water      L = Liquid O = Oil      V = Vegetation A = Air      X = Other
Relinquished By: <b>Daniel Klug CHPRC</b> <i>D. Klug</i> MAR 14 2018 1430 <small>Print First and Last Name      Signature      Date/Time</small>	Received By: <b>B. Jorgenson, TARL</b> <i>B. Jorgenson</i> 3/14/18/1430 <small>Print First and Last Name      Signature      Date/Time</small>	
Relinquished By: <small>Print First and Last Name      Signature      Date/Time</small>	Received By: <small>Print First and Last Name      Signature      Date/Time</small>	
Relinquished By: <small>Print First and Last Name      Signature      Date/Time</small>	Received By: <small>Print First and Last Name      Signature      Date/Time</small>	
<b>FINAL SAMPLE DISPOSITION</b>	Disposal Method (e.g., Return to customer, per lab procedure, used in process):	
		Date/Time:

<b>CH2M Hill Plateau Remediation Company</b>	<b>CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST</b>	C.O.C.# <b>S18-003-231</b>
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<b>Collector:</b> Roger Friesz Jr. /CHPRC	<b>Contact/Requester:</b> Karen Waters-Husted	<b>Telephone No.:</b> 509-376-4650
<b>SAF No.:</b> S18-003	<b>Sampling Origin:</b> Hanford Site	<b>Purchase Order/Charge Code:</b> 300071
<b>Project Title:</b> CERCLA, MARCH 2018	<b>Logbook No.:</b> HNF-N-506 -97/74	<b>Ice Chest No.:</b> N/A
<b>Shipped To (Lab):</b> TestAmerica Incorporated, Rich	<b>Method of Shipment:</b> GOVERNMENT VEHICLE	<b>Bill of Lading/Air Bill No.:</b> N/A
<b>Protocol:</b> CERCLA	<b>Priority:</b> 30 Days	<b>Offsite Property No.:</b> N/A

<b>POSSIBLE SAMPLE HAZARDS/REMARK</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	<b>SPECIAL INSTRUCTIONS</b> N/A
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Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B3HH10	N	W	3-14-18	0935	1x60-mL aG	7196_CR6: COMMON	24 Hours	Cool <=6C
B3HJ00	Y	W	3-14-18	0935	1x60-mL aG	7196_CR6: COMMON	24 Hours	Cool <=6C

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Relinquished By: Roger Friesz Jr. /CHPRC Signature: [Signature] Date/Time: MAR 14 2018 1100	Received By: Daniel Klug CHPRC Signature: D. Klug Date/Time: MAR 14 2018 1100	Matrix * S = Soil DS = Drum Solids SE = Sediment DL = Drum Liquid SO = Solid T = Tissue SL = Sludge WI = Wipe W = Water L = Liquid O = Oil V = Vegetation A = Air X = Other
Relinquished By: Daniel Klug CHPRC Signature: D. Klug Date/Time: MAR 14 2018 1430	Received By: B. Jorgenson, TARL Signature: [Signature] Date/Time: 3-14-18/1430	
Relinquished By: Signature: _____ Date/Time: _____	Received By: Signature: _____ Date/Time: _____	
Relinquished By: Signature: _____ Date/Time: _____	Received By: Signature: _____ Date/Time: _____	
<b>FINAL SAMPLE DISPOSITION</b> Disposal Method (e.g., Return to customer, per lab procedure, used in process):		Disposed By: _____ Date/Time: _____

<b>CH2M Hill Plateau Remediation Company</b>	<b>CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST</b>	C.O.C.# <b>S18-003-265</b>
		Page 1 of 1

REV. 0

Collector: <b>Roger Friesz Jr. /CHPRC</b>	Contact/Requester: Karen Waters-Husted	Telephone No.: 509-376-4650
SAF No.: S18-003	Sampling Origin: Hanford Site	Purchase Order/Charge Code: 300071
Project Title: CERCLA, MARCH 2018	Logbook No.: HNF-N-506 -97/74	Ice Chest No.: N/A
Shipped To (Lab): <b>TestAmerica Incorporated, Rich</b>	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/REMARK**  
 \*\* \*\* 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**  
 N/A

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B3HF62	Y	W	3-14-18	0945	1x60-mL aG	7196_CR6: COMMON	24 Hours	Cool <=6C
B3HF60	N	W	3-14-18	0945	1x60-mL aG	7196_CR6: COMMON	24 Hours	Cool <=6C

03/22/2018

6872  
 WC 2769

Relinquished By: <b>Roger Friesz Jr.</b> <small>CHPRC</small> <i>[Signature]</i> MAR 14 2018 1100 <small>Print First and Last Name Signature Date/Time</small>	Received By: <b>Daniel Klug</b> <small>CHPRC</small> <i>[Signature]</i> MAR 14 2018 1100 <small>Print First and Last Name Signature Date/Time</small>	<b>Matrix *</b> S = Soil      DS = Drum Solids SE = Sediment    DL = Drum Liquid SO = Solid      T = Tissue SL = Sludge      WI = Wipe W = Water        L = Liquid O = Oil            V = Vegetation A = Air            X = Other
Relinquished By: <b>Daniel Klug</b> <small>CHPRC</small> <i>[Signature]</i> MAR 14 2018 1431 <small>Print First and Last Name Signature Date/Time</small>	Received By: <b>B. Jorgenson, TARL</b> <small>CHPRC</small> <i>[Signature]</i> 3-14-18/1430 <small>Print First and Last Name Signature Date/Time</small>	
Relinquished By: <small>Print First and Last Name Signature Date/Time</small>	Received By: <small>Print First and Last Name Signature Date/Time</small>	
Relinquished By: <small>Print First and Last Name Signature Date/Time</small>	Received By: <small>Print First and Last Name Signature Date/Time</small>	
<b>FINAL SAMPLE DISPOSITION</b> Disposal Method (e.g., Return to customer, per lab procedure, used in process):	Disposed By:	

<b>CH2MHill Plateau Remediation Company</b>	<b>CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST</b>	C.O.C.# <b>S18-003-255</b>
Page 1 of 1		

<b>Collector:</b> Roger Friesz Jr. <small>CHPRC</small>	<b>Contact/Requester:</b> Karen Waters-Husted	<b>Telephone No.:</b> 509-376-4650
<b>CAF No.:</b> S18-003	<b>Sampling Origin:</b> Hanford Site	<b>Purchase Order/Charge Code:</b> 300071
<b>Project Title:</b> CERCLA, MARCH 2018	<b>Logbook No.:</b> HNF-N-506 -97/74	<b>Ice Chest No.:</b> N/A
<b>Shipped To (Lab):</b> TestAmerica Incorporated, Rich	<b>Method of Shipment:</b> GOVERNMENT VEHICLE	<b>Bill of Lading/Air Bill No.:</b> N/A
<b>Protocol:</b> CERCLA	<b>Priority:</b> 30 Days	<b>Offsite Property No.:</b> N/A

**POSSIBLE SAMPLE HAZARDS/REMARK**  
 \*\* \*\* 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**  
 N/A

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B3HF35	N	W	3-14-18	1030	1x60-mL aG	7196_CR6: COMMON	24 Hours	Cool <=6C
B3HF38	Y	W	3-14-18	1030	1x60-mL aG	7196_CR6: COMMON	24 Hours	Cool <=6C

03/22/2018

6872  
C 2769

Relinquished By: <u>Roger Friesz Jr.</u> <small>CHPRC</small> Print First and Last Name      Signature      Date/Time: <u>MAR 14 2018 1100</u>	Received By: <u>Daniel Klug</u> <small>CHPRC</small> Print First and Last Name      Signature      Date/Time: <u>MAR 14 2018 1100</u>	Matrix * S = Soil      DS = Drum Solids SE = Sediment      DL = Drum Liquid SO = Solid      T = Tissue SL = Sludge      WI = Wipe W = Water      L = Liquid O = Oil      V = Vegetation A = Air      X = Other	
Relinquished By: <u>Daniel Klug</u> <small>CHPRC</small> Print First and Last Name      Signature      Date/Time: <u>MAR 14 2018 1430</u>	Received By: <u>B. Jorgenson, TARL</u> Print First and Last Name      Signature      Date/Time: <u>3-14-18/1430</u>		
Relinquished By: Print First and Last Name      Signature      Date/Time	Received By: Print First and Last Name      Signature      Date/Time		
Relinquished By: Print First and Last Name      Signature      Date/Time	Received By: Print First and Last Name      Signature      Date/Time		
<b>FINAL SAMPLE DISPOSITION</b> Disposal Method (e.g., Return to customer, per lab procedure, used in process):		Disposed By:	Date/Time:

Client: CH2M Hill Plateau Remediation Company  
Project/Site: S18-003

TestAmerica Job ID: 300-6872-1  
SDG: WC2769

**Client Sample ID: B3HFL3**

**Lab Sample ID: 300-6872-1**

No Detections.

**Client Sample ID: B3HFK9**

**Lab Sample ID: 300-6872-2**

No Detections.

**Client Sample ID: B3HFL4**

**Lab Sample ID: 300-6872-3**

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: B3HFL0**

**Lab Sample ID: 300-6872-4**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.011		0.0040	0.0015	mg/L	1		7196A	Total/NA

**Client Sample ID: B3HFK1**

**Lab Sample ID: 300-6872-5**

No Detections.

**Client Sample ID: B3HFK3**

**Lab Sample ID: 300-6872-6**

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: B3HFW6**

**Lab Sample ID: 300-6872-7**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.0080		0.0040	0.0015	mg/L	1		7196A	Total/NA

**Client Sample ID: B3HFH2**

**Lab Sample ID: 300-6872-8**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.0076		0.0040	0.0015	mg/L	1		7196A	Total/NA

**Client Sample ID: B3HFL8**

**Lab Sample ID: 300-6872-9**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.0066		0.0040	0.0015	mg/L	1		7196A	Total/NA

**Client Sample ID: B3HFM0**

**Lab Sample ID: 300-6872-10**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.0081		0.0040	0.0015	mg/L	1		7196A	Total/NA

**Client Sample ID: B3HFX0**

**Lab Sample ID: 300-6872-11**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.023		0.0040	0.0015	mg/L	1		7196A	Total/NA

**Client Sample ID: B3HFX2**

**Lab Sample ID: 300-6872-12**

This Detection Summary does not include radiochemical test results.

TestAmerica Richland

Client: CH2M Hill Plateau Remediation Company  
 Project/Site: S18-003

TestAmerica Job ID: 300-6872-1  
 SDG: WC2769

**Client Sample ID: B3HFX2 (Continued)**

**Lab Sample ID: 300-6872-12**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.023		0.0040	0.0015	mg/L	1		7196A	Total/NA

**Client Sample ID: B3HJ05**

**Lab Sample ID: 300-6872-13**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.018		0.0040	0.0015	mg/L	1		7196A	Total/NA

**Client Sample ID: B3HJ07**

**Lab Sample ID: 300-6872-14**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.018		0.0040	0.0015	mg/L	1		7196A	Total/NA

**Client Sample ID: B3HH10**

**Lab Sample ID: 300-6872-15**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.016		0.0040	0.0015	mg/L	1		7196A	Total/NA

**Client Sample ID: B3HJ00**

**Lab Sample ID: 300-6872-16**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.016		0.0040	0.0015	mg/L	1		7196A	Total/NA

**Client Sample ID: B3HF22**

**Lab Sample ID: 300-6872-17**

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: B3HF60**

**Lab Sample ID: 300-6872-18**

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: B3HF35**

**Lab Sample ID: 300-6872-19**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.042		0.0040	0.0015	mg/L	1		7196A	Total/NA

**Client Sample ID: B3HF38**

**Lab Sample ID: 300-6872-20**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.044		0.0040	0.0015	mg/L	1		7196A	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Richland

Client: CH2M Hill Plateau Remediation Company  
 Project/Site: S18-003

TestAmerica Job ID: 300-6872-1  
 SDG: WC2769

**Client Sample ID: B3HFL3**

**Lab Sample ID: 300-6872-1**

Date Collected: 03/14/18 07:00  
 Date Received: 03/14/18 14:30

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			03/14/18 17:32	1

**Client Sample ID: B3HFK9**

**Lab Sample ID: 300-6872-2**

Date Collected: 03/14/18 07:00  
 Date Received: 03/14/18 14:30

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			03/14/18 17:33	1

**Client Sample ID: B3HFL4**

**Lab Sample ID: 300-6872-3**

Date Collected: 03/14/18 08:09  
 Date Received: 03/14/18 14:30

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			03/14/18 17:36	1

**Client Sample ID: B3HFL0**

**Lab Sample ID: 300-6872-4**

Date Collected: 03/14/18 08:09  
 Date Received: 03/14/18 14:30

Matrix: Water

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.011		0.0040	0.0015	mg/L			03/14/18 17:36	1

**Client Sample ID: B3HFK1**

**Lab Sample ID: 300-6872-5**

Date Collected: 03/14/18 08:21  
 Date Received: 03/14/18 14:30

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			03/14/18 17:37	1

**Client Sample ID: B3HFK3**

**Lab Sample ID: 300-6872-6**

Date Collected: 03/14/18 08:21  
 Date Received: 03/14/18 14:30

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			03/14/18 17:37	1

**Client Sample ID: B3HFW6**

**Lab Sample ID: 300-6872-7**

Date Collected: 03/14/18 08:32  
 Date Received: 03/14/18 14:30

Matrix: Water

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.0080		0.0040	0.0015	mg/L			03/14/18 17:37	1

Client: CH2M Hill Plateau Remediation Company  
Project/Site: S18-003

TestAmerica Job ID: 300-6872-1  
SDG: WC2769

**Client Sample ID: B3HFH2**

**Lab Sample ID: 300-6872-8**

Date Collected: 03/14/18 08:32

Matrix: Water

Date Received: 03/14/18 14:30

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.0076		0.0040	0.0015	mg/L			03/14/18 17:38	1

**Client Sample ID: B3HFL8**

**Lab Sample ID: 300-6872-9**

Date Collected: 03/14/18 08:55

Matrix: Water

Date Received: 03/14/18 14:30

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.0066		0.0040	0.0015	mg/L			03/14/18 17:38	1

**Client Sample ID: B3HFM0**

**Lab Sample ID: 300-6872-10**

Date Collected: 03/14/18 08:55

Matrix: Water

Date Received: 03/14/18 14:30

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.0081		0.0040	0.0015	mg/L			03/14/18 17:41	1

**Client Sample ID: B3HFX0**

**Lab Sample ID: 300-6872-11**

Date Collected: 03/14/18 09:00

Matrix: Water

Date Received: 03/14/18 14:30

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.023		0.0040	0.0015	mg/L			03/14/18 17:41	1

**Client Sample ID: B3HFX2**

**Lab Sample ID: 300-6872-12**

Date Collected: 03/14/18 09:00

Matrix: Water

Date Received: 03/14/18 14:30

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.023		0.0040	0.0015	mg/L			03/14/18 17:41	1

**Client Sample ID: B3HJ05**

**Lab Sample ID: 300-6872-13**

Date Collected: 03/14/18 09:22

Matrix: Water

Date Received: 03/14/18 14:30

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.018		0.0040	0.0015	mg/L			03/14/18 17:42	1

**Client Sample ID: B3HJ07**

**Lab Sample ID: 300-6872-14**

Date Collected: 03/14/18 09:22

Matrix: Water

Date Received: 03/14/18 14:30

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.018		0.0040	0.0015	mg/L			03/14/18 17:42	1

Client: CH2M Hill Plateau Remediation Company  
 Project/Site: S18-003

TestAmerica Job ID: 300-6872-1  
 SDG: WC2769

**Client Sample ID: B3HH10**

**Lab Sample ID: 300-6872-15**

Date Collected: 03/14/18 09:35

Matrix: Water

Date Received: 03/14/18 14:30

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.016		0.0040	0.0015	mg/L			03/14/18 17:43	1

**Client Sample ID: B3HJ00**

**Lab Sample ID: 300-6872-16**

Date Collected: 03/14/18 09:35

Matrix: Water

Date Received: 03/14/18 14:30

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.016		0.0040	0.0015	mg/L			03/14/18 17:45	1

**Client Sample ID: B3HF62**

**Lab Sample ID: 300-6872-17**

Date Collected: 03/14/18 09:45

Matrix: Water

Date Received: 03/14/18 14:30

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.010		0.0040	0.0015	mg/L			03/14/18 17:46	1

**Client Sample ID: B3HF60**

**Lab Sample ID: 300-6872-18**

Date Collected: 03/14/18 09:45

Matrix: Water

Date Received: 03/14/18 14:30

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.010		0.0040	0.0015	mg/L			03/14/18 17:46	1

**Client Sample ID: B3HF35**

**Lab Sample ID: 300-6872-19**

Date Collected: 03/14/18 10:30

Matrix: Water

Date Received: 03/14/18 14:30

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.042		0.0040	0.0015	mg/L			03/14/18 17:46	1

**Client Sample ID: B3HF38**

**Lab Sample ID: 300-6872-20**

Date Collected: 03/14/18 10:30

Matrix: Water

Date Received: 03/14/18 14:30

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.044		0.0040	0.0015	mg/L			03/14/18 17:47	1

Client: CH2M Hill Plateau Remediation Company  
Project/Site: S18-003

TestAmerica Job ID: 300-6872-1  
SDG: WC2769

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

**Lab Sample ID: MB 300-10626/31**  
**Matrix: Water**  
**Analysis Batch: 10626**

**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			03/14/18 17:31	1

**Lab Sample ID: LCS 300-10626/32**  
**Matrix: Water**  
**Analysis Batch: 10626**

**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	0.260		mg/L		104	80 - 120

**Lab Sample ID: 300-6872-1 MS**  
**Matrix: Water**  
**Analysis Batch: 10626**

**Client Sample ID: B3HFL3**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cr (VI)	0.0015	U	0.0501	0.0515		mg/L		103	75 - 125

**Lab Sample ID: 300-6872-1 DU**  
**Matrix: Water**  
**Analysis Batch: 10626**

**Client Sample ID: B3HFL3**  
**Prep Type: Total/NA**

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

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

Client: CH2M Hill Plateau Remediation Company  
 Project/Site: S18-003

TestAmerica Job ID: 300-6872-1  
 SDG: WC2769

**General Chemistry**

**Analysis Batch: 10626**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
300-6872-1	B3HFL3	Total/NA	Water	7196A	
300-6872-2	B3HFK9	Total/NA	Water	7196A	
300-6872-3	B3HFL4	Total/NA	Water	7196A	
300-6872-4	B3HFL0	Total/NA	Water	7196A	
300-6872-5	B3HFK1	Total/NA	Water	7196A	
300-6872-6	B3HFK3	Total/NA	Water	7196A	
300-6872-7	B3HFW6	Total/NA	Water	7196A	
300-6872-8	B3HFH2	Total/NA	Water	7196A	
300-6872-9	B3HFL8	Total/NA	Water	7196A	
300-6872-10	B3HFM0	Total/NA	Water	7196A	
300-6872-11	B3HFX0	Total/NA	Water	7196A	
300-6872-12	B3HFX2	Total/NA	Water	7196A	
300-6872-13	B3HJ05	Total/NA	Water	7196A	
300-6872-14	B3HJ07	Total/NA	Water	7196A	
300-6872-15	B3HH10	Total/NA	Water	7196A	
300-6872-16	B3HJ00	Total/NA	Water	7196A	
300-6872-17	B3HF62	Total/NA	Water	7196A	
300-6872-18	B3HF60	Total/NA	Water	7196A	
300-6872-19	B3HF35	Total/NA	Water	7196A	
300-6872-20	B3HF38	Total/NA	Water	7196A	
MB 300-10626/31	Method Blank	Total/NA	Water	7196A	
LCS 300-10626/32	Lab Control Sample	Total/NA	Water	7196A	
300-6872-1 MS	B3HFL3	Total/NA	Water	7196A	
300-6872-1 DU	B3HFL3	Total/NA	Water	7196A	

- 1
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- 12
- 13

Client: CH2M Hill Plateau Remediation Company  
Project/Site: S18-003

TestAmerica Job ID: 300-6872-1  
SDG: WC2769

**Client Sample ID: B3HFL3**  
Date Collected: 03/14/18 07:00  
Date Received: 03/14/18 14:30

**Lab Sample ID: 300-6872-1**  
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			10626	03/14/18 17:32	TRH	TAL RCH

**Client Sample ID: B3HFK9**  
Date Collected: 03/14/18 07:00  
Date Received: 03/14/18 14:30

**Lab Sample ID: 300-6872-2**  
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			10626	03/14/18 17:33	TRH	TAL RCH

**Client Sample ID: B3HFL4**  
Date Collected: 03/14/18 08:09  
Date Received: 03/14/18 14:30

**Lab Sample ID: 300-6872-3**  
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			10626	03/14/18 17:36	TRH	TAL RCH

**Client Sample ID: B3HFL0**  
Date Collected: 03/14/18 08:09  
Date Received: 03/14/18 14:30

**Lab Sample ID: 300-6872-4**  
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			10626	03/14/18 17:36	TRH	TAL RCH

**Client Sample ID: B3HFK1**  
Date Collected: 03/14/18 08:21  
Date Received: 03/14/18 14:30

**Lab Sample ID: 300-6872-5**  
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			10626	03/14/18 17:37	TRH	TAL RCH

**Client Sample ID: B3HFK3**  
Date Collected: 03/14/18 08:21  
Date Received: 03/14/18 14:30

**Lab Sample ID: 300-6872-6**  
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			10626	03/14/18 17:37	TRH	TAL RCH

Client: CH2M Hill Plateau Remediation Company  
Project/Site: S18-003

TestAmerica Job ID: 300-6872-1  
SDG: WC2769

**Client Sample ID: B3HFW6**

**Lab Sample ID: 300-6872-7**

Date Collected: 03/14/18 08:32

Matrix: Water

Date Received: 03/14/18 14:30

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			10626	03/14/18 17:37	TRH	TAL RCH

**Client Sample ID: B3HFH2**

**Lab Sample ID: 300-6872-8**

Date Collected: 03/14/18 08:32

Matrix: Water

Date Received: 03/14/18 14:30

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			10626	03/14/18 17:38	TRH	TAL RCH

**Client Sample ID: B3HFL8**

**Lab Sample ID: 300-6872-9**

Date Collected: 03/14/18 08:55

Matrix: Water

Date Received: 03/14/18 14:30

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			10626	03/14/18 17:38	TRH	TAL RCH

**Client Sample ID: B3HFM0**

**Lab Sample ID: 300-6872-10**

Date Collected: 03/14/18 08:55

Matrix: Water

Date Received: 03/14/18 14:30

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			10626	03/14/18 17:41	TRH	TAL RCH

**Client Sample ID: B3HFX0**

**Lab Sample ID: 300-6872-11**

Date Collected: 03/14/18 09:00

Matrix: Water

Date Received: 03/14/18 14:30

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			10626	03/14/18 17:41	TRH	TAL RCH

**Client Sample ID: B3HFX2**

**Lab Sample ID: 300-6872-12**

Date Collected: 03/14/18 09:00

Matrix: Water

Date Received: 03/14/18 14:30

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			10626	03/14/18 17:41	TRH	TAL RCH

Client: CH2M Hill Plateau Remediation Company  
Project/Site: S18-003

TestAmerica Job ID: 300-6872-1  
SDG: WC2769

**Client Sample ID: B3HJ05**

**Lab Sample ID: 300-6872-13**

Date Collected: 03/14/18 09:22

Matrix: Water

Date Received: 03/14/18 14:30

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			10626	03/14/18 17:42	TRH	TAL RCH

**Client Sample ID: B3HJ07**

**Lab Sample ID: 300-6872-14**

Date Collected: 03/14/18 09:22

Matrix: Water

Date Received: 03/14/18 14:30

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			10626	03/14/18 17:42	TRH	TAL RCH

**Client Sample ID: B3HH10**

**Lab Sample ID: 300-6872-15**

Date Collected: 03/14/18 09:35

Matrix: Water

Date Received: 03/14/18 14:30

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			10626	03/14/18 17:43	TRH	TAL RCH

**Client Sample ID: B3HJ00**

**Lab Sample ID: 300-6872-16**

Date Collected: 03/14/18 09:35

Matrix: Water

Date Received: 03/14/18 14:30

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			10626	03/14/18 17:45	TRH	TAL RCH

**Client Sample ID: B3HF62**

**Lab Sample ID: 300-6872-17**

Date Collected: 03/14/18 09:45

Matrix: Water

Date Received: 03/14/18 14:30

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			10626	03/14/18 17:46	TRH	TAL RCH

**Client Sample ID: B3HF60**

**Lab Sample ID: 300-6872-18**

Date Collected: 03/14/18 09:45

Matrix: Water

Date Received: 03/14/18 14:30

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			10626	03/14/18 17:46	TRH	TAL RCH

Client: CH2M Hill Plateau Remediation Company  
Project/Site: S18-003

TestAmerica Job ID: 300-6872-1  
SDG: WC2769

**Client Sample ID: B3HF35**

**Lab Sample ID: 300-6872-19**

Date Collected: 03/14/18 10:30

Matrix: Water

Date Received: 03/14/18 14:30

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			10626	03/14/18 17:46	TRH	TAL RCH

**Client Sample ID: B3HF38**

**Lab Sample ID: 300-6872-20**

Date Collected: 03/14/18 10:30

Matrix: Water

Date Received: 03/14/18 14:30

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			10626	03/14/18 17:47	TRH	TAL RCH

**Client Sample ID: Method Blank**

**Lab Sample ID: MB 300-10626/31**

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			10626	03/14/18 17:31	TRH	TAL RCH

**Client Sample ID: Lab Control Sample**

**Lab Sample ID: LCS 300-10626/32**

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			10626	03/14/18 17:32	TRH	TAL RCH

**Client Sample ID: B3HFL3**

**Lab Sample ID: 300-6872-1 MS**

Date Collected: 03/14/18 07:00

Matrix: Water

Date Received: 03/14/18 14:30

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			10626	03/14/18 17:32	TRH	TAL RCH

**Client Sample ID: B3HFL3**

**Lab Sample ID: 300-6872-1 DU**

Date Collected: 03/14/18 07:00

Matrix: Water

Date Received: 03/14/18 14:30

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			10626	03/14/18 17:33	TRH	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: S18-003

TestAmerica Job ID: 300-6872-1  
SDG: WC2769

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

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**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: S18-003

TestAmerica Job ID: 300-6872-1  
 SDG: WC2769

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
300-6872-1	B3HFL3	Water	03/14/18 07:00	03/14/18 14:30
300-6872-2	B3HFK9	Water	03/14/18 07:00	03/14/18 14:30
300-6872-3	B3HFL4	Water	03/14/18 08:09	03/14/18 14:30
300-6872-4	B3HFL0	Water	03/14/18 08:09	03/14/18 14:30
300-6872-5	B3HFK1	Water	03/14/18 08:21	03/14/18 14:30
300-6872-6	B3HFK3	Water	03/14/18 08:21	03/14/18 14:30
300-6872-7	B3HFW6	Water	03/14/18 08:32	03/14/18 14:30
300-6872-8	B3HFH2	Water	03/14/18 08:32	03/14/18 14:30
300-6872-9	B3HFL8	Water	03/14/18 08:55	03/14/18 14:30
300-6872-10	B3HFM0	Water	03/14/18 08:55	03/14/18 14:30
300-6872-11	B3HFX0	Water	03/14/18 09:00	03/14/18 14:30
300-6872-12	B3HFX2	Water	03/14/18 09:00	03/14/18 14:30
300-6872-13	B3HJ05	Water	03/14/18 09:22	03/14/18 14:30
300-6872-14	B3HJ07	Water	03/14/18 09:22	03/14/18 14:30
300-6872-15	B3HH10	Water	03/14/18 09:35	03/14/18 14:30
300-6872-16	B3HJ00	Water	03/14/18 09:35	03/14/18 14:30
300-6872-17	B3HF62	Water	03/14/18 09:45	03/14/18 14:30
300-6872-18	B3HF60	Water	03/14/18 09:45	03/14/18 14:30
300-6872-19	B3HF35	Water	03/14/18 10:30	03/14/18 14:30
300-6872-20	B3HF38	Water	03/14/18 10:30	03/14/18 14:30



Login Sample Receipt Checklist

Client: CH2M Hill Plateau Remediation Company

Job Number: 300-6872-1

SDG Number: WC2769

Login Number: 6872

List Number: 1

Creator: Holm, Tina R

List Source: TestAmerica Richland

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

