

# 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: 300-1480-1  
TestAmerica Sample Delivery Group: WC0585  
Client Project/Site: CH2M Hill Chemical

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

Attn: CPP Sample Management



Authorized for release by:  
12/7/2015 11:14:38 AM  
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  
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Have a Question?



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

Qualifier	Qualifier Description
U	Analyzed for but not detected.
B	Estimated result. Result is less than the RL, but greater than MDL
D	The reported value is from a dilution.
N	MS, MSD: Spike recovery is outside acceptance limits.

**General Chemistry**

Qualifier	Qualifier Description
U	Analyzed for but not detected.

**Glossary**

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

**Job ID: 300-1480-1**

**Laboratory: TestAmerica Richland**

**Narrative**

**Job Narrative  
300-1480-1**

**Comments**

No additional comments.

**Receipt**

The samples were received on 11/11/2015 3:05 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.6° C.

**HPLC/IC**

Method 300.0: The matrix spike (MS) recoveries for analytical batch 300-1942 were outside control limits for Orthophosphate as P . Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

**General Chemistry**

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



**CH2M Hill Plateau Remediation Company**

**CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST**

C.O.C. #  
**S16-011-181**  
Page 1 of 1

Collector	J.R. Aguilar-Chapric	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650
SAF No.	S16-011	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071
Project Title	SURV, NOVEMBER 2016	Logbook No.	HNF-N-506 <u>80 / 24</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	SURV	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 438.1			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
B335H1	Y	W	11-11-15	0902	1x60-ml aG	7196_CR6: COMMON	24 Hours	Cool <=6C
B335F9	N	W	11-11-15	0902	1x60-ml aG	7196_CR6: COMMON	24 Hours	Cool <=6C

WCO585  
# 1480



300-1480 COC

December 07 2015

Reinquished By	J.R. Aguilar-Chapric	Print	Sign	Date/Time	NOV 11 2015 1045	Received By	F.M. Hall-Chapric	Print	Sign	Date/Time	NOV 11 2015 1045	Matrix *
Reinquished By	F.M. Hall-Chapric	Print	Sign	Date/Time	NOV 11 2015 1505	Received By	J. Bock, TARL	Print	Sign	Date/Time	NOV 11 2015 1505	Matrix *
Reinquished By		Print	Sign	Date/Time		Received By		Print	Sign	Date/Time		Matrix *

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. #

S16-011-148

Page 1 of 1

Collector	JR Aguirre	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650
SAF No.	S16-011	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071
Project Title	SURV, NOVEMBER 2016	Logbook No.	HNF-N-506 50 / 24	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	SURV	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
B33529	Y	W	11-11-15	1015	1x60-mL aG	7196_CR6: COMMON	24 Hours	Cool <=6C
B33527	N	W	11-11-15	1015	1x60-mL aG	7196_CR6: COMMON	24 Hours	Cool <=6C

WCS85  
#1480

December 07 2015

Relinquished By	JR Aguirre	Print	Sign	NOV 11 2015	Date/Time	1045	Received By	F.M. Hall/CHPRC	Print	Sign	NOV 11 2015	Date/Time	1045	Matrix *
Relinquished By	F.M. Hall/CHPRC	Print	Sign	NOV 11 2015	Date/Time	1505	Received By	J. Beck, TABL	Print	Sign	NOV 11 2015	Date/Time	1505	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		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

Collector	J.R. Aguilar/CHPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650
SAF No.	S16-011	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071
Project Title	SURV, NOVEMBER 2016	Logbook No.	HNF-N-506 <u>50</u> / <u>24</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	SURV	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
B335C5	N	W	11-11-15	0745	1x60-mL aG	7196_CR6: COMMON	24 Hours	Cool <=6C
B335C9	Y	W	11-11-15	0745	1x60-mL aG	7196_CR6: COMMON	24 Hours	Cool <=6C

WCCOS85  
A 1480

December 07, 2015

Relinquished By	J.R. Aguilar/CHPRC	Print	Sign	Date/Time	NOV 11 2015 1045	Received By	F.M. Heilich/CHPRC	Print	Sign	Date/Time	NOV 11 2015 1045	Matrix *
Relinquished By	<i>[Signature]</i>					Received By	<i>[Signature]</i>					S = Soil SE = Sediment SO = Solid SL = Sludge W = Water O = Oil A = Air
Relinquished By	<i>[Signature]</i>					Received By	J. Beck, TARL				NOV 11 2015 1505	DS = Drum Solids DL = Drum Liquids T = Tissue WI = Wipe L = Liquid V = Vegetation X = Other

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time
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Collector	J.R. Aguilar/CHPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650
SAF No.	S16-011	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071
Project Title	SURV, NOVEMBER 2016	Logbook No.	HNF-N-506 <u>80/24</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	SURV	Priority:	30 Days PRIORITY	Offsite Property No.	N/A
POSSIBLE SAMPLE HAZARDS/REMARKS			SPECIAL INSTRUCTIONS		
*** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 438.1			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
B335C6	N	W	11-11-15	0924	1x60-ml aG	7196_CR6: COMMON	24 Hours	Cool <=6C
B335D0	Y	W	11-11-15	0924	1x60-ml aG	7196_CR6: COMMON	24 Hours	Cool <=6C

W060585  
# 1480

December 07, 2015

Relinquished By	J.R. Aguilar/CHPRC	Print	Sign	Date/Time	NOV 11 2015 1045	Received By	F.M. Harric/CHPRC	Print	Sign	Date/Time	NOV 11 2015 1045	Matrix *
Relinquished By	F.M. Harric/CHPRC	Print	Sign	Date/Time	NOV 11 2015 1505	Received By	J. Bock, TARL	Print	Sign	Date/Time	NOV 11 2015 1505	S = Soil SE = Sediment SO = Solid SL = Sludge W = Water O = Oil A = Air DS = Drum Solids DL = Drum Liquids T = Tissue WT = Wipe L = Liquid V = Vegetation X = Other

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time
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**CH2M Hill Plateau Remediation Company**

**CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST**

C.O.C. #  
**S16-011-150**  
Page 1 of 1

Collector	<b>J.R. Aguilera/CH2MHC</b>	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650
SAF No.	S16-011	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071
Project Title	SURV, NOVEMBER 2016	Logbook No.	HNF-N-506 80 / 24	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	SURV	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
B33533	N	W	11-11-15	1009	1x60-mL aG	7196_CR6: COMMON	24 Hours	Cool <=6C
B33535	Y	W	11-11-15	1009	1x60-mL aG	7196_CR6: COMMON	24 Hours	Cool <=6C

W20585  
# 1480

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time	Matrix *
J.R. Aguilera/CH2MHC			NOV 11 2015 1045	F.M. Heilich/CH2MHC			NOV 11 2015 1045	S = Soil SE = Sediment SO = Solid SL = Sludge W = Water O = Oil A = Air
Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time	DS = Drum Solids DL = Drum Liquids T = Tissue WT = Wipe L = Liquid V = Vegetation X = Other
F.M. Heilich/CH2MHC			NOV 11 2015 1505	J. Bock, TARL			NOV 11 2015 1505	
Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time	

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

December 07 2015

Collector	J.R. Aguilar/CHPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650
SAF No.	S16-011	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071
Project Title	SURV, NOVEMBER 2016	Logbook No.	HNF-N-506 80 / 24	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	SURV	Priority:	30 Days PRIORITY	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
B33595	N	W	11-11-15	0912	1x60-mL aG	7196_CR6: COMMON	24 Hours	Cool <=6C
B33597	Y	W	11-11-15	0912	1x60-mL aG	7196_CR6: COMMON	24 Hours	Cool <=6C

US CDSRS  
# 1480

December 07 2015

Relinquished By	J.R. Aguilar/CHPRC	Print	Sign	Date/Time	NOV 11 2015 1045	Received By	F.M. HANICHPRC	Print	Sign	Date/Time	NOV 11 2015 1045	Matrix *
Relinquished By	F.M. HANICHPRC	Print	Sign	Date/Time	NOV 11 2015 1505	Received By	1. Bock, TARL	Print	Sign	Date/Time	NOV 11 2015 1505	Matrix *

Relinquished By		Date/Time	Received By		Date/Time
Relinquished By		Date/Time	Received By		Date/Time
Relinquished By		Date/Time	Received By		Date/Time

**CH2MHill Plateau Remediation Company**

**CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST**

C.O.C. #  
**S16-011-153**  
Page 1 of 1

Collector	J.R. Aguilar/CHPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650
SAF No.	S16-011	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071
Project Title	SURV, NOVEMBER 2016	Logbook No.	HNF-N-506 <u>50 / 24</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	SURV	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
B33548	N	11-11-15	0951	1x60-mL aG	7196_CR6: COMMON	24 Hours	Cool <=6C
B33550	Y	11-11-15	0951	1x60-mL aG	7196_CR6: COMMON	24 Hours	Cool <=6C

WCOSS85  
# 1450

December 07 2015

Relinquished By	J.R. Aguilar/CHPRC	Print	Sign	Date/Time	NOV 11 2015 1045	Received By	F.M. HARRICHPRC	Print	Sign	Date/Time	NOV 11 2015 1045
Relinquished By	F.M. HARRICHPRC	Print	Sign	Date/Time	NOV 11 2015 1505	Received By	J. Bock, TARL	Print	Sign	Date/Time	NOV 11 2015 1505
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
  - WT = Wipe
  - L = Liquid
  - V = Vegetation
  - X = Other

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time
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**CH2M/Hill Plateau Remediation Company**

**CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST**

C.O.C. #  
**S16-011-154**  
Page 1 of 1

Collector	J.R. Aguilar/CH2MRC	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650
SAF No.	S16-011	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071
Project Title	SURV, NOVEMBER 2016	Logbook No.	HNF-N-506 \$0 / 24	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	SURV	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
B33547	N	W	11-11-15	0951	1x60-mL aG	7196_CR6: COMMON	24 Hours	Cool <=6C
B33551	Y	W	11-11-15	0951	1x60-mL aG	7196_CR6: COMMON	24 Hours	Cool <=6C

# 1480  
W20585

December 07, 2015

Relinquished By	J.R. Aguilar/CH2MRC	Print	Sign	Date/Time	NOV 11 2015 1045	Received By	F.M. Hall/CH2MRC	Print	Sign	Date/Time	NOV 11 2015 1045	Matrix *
Relinquished By	F.M. Hall/CH2MRC	Print	Sign	Date/Time	NOV 11 2015 1505	Received By	J. Bock, TARL	Print	Sign	Date/Time	NOV 11 2015 1505	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		WL = 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	Disposed Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time
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**CH2MHill Plateau Remediation Company**

**CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST**

C.O.C. #  
**S16-011-177**  
Page 1 of 1

Collector	J.R. Aguilar/CH2M	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650
SAF No.	S16-011	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071
Project Title	SURV, NOVEMBER 2016	Logbook No.	HNF-N-506 <u>80 / 24</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	SURV	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
B335D4	N	W	11-11-15	0848	1x60-ml aG	7196_CR6: COMMON	24 Hours	Cool <=6C
B335D6	Y	W	11-11-15	0848	1x60-ml aG	7196_CR6: COMMON	24 Hours	Cool <=6C

A 1480  
W20555

December 07 2015

Relinquished By	J.R. Aguilar/CH2M	Print	Sign	Date/Time	NOV 11 2015 1045	Received By	F.M. Hall/CH2M	Print	Sign	Date/Time	NOV 11 2015 1045
Relinquished By	F.M. Hall/CH2M	Print	Sign	Date/Time	NOV 11 2015 1505	Received By	J. Bock, TARI	Print	Sign	Date/Time	NOV 11 2015 1505
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

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time
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**CH2M Hill Plateau Remediation Company**

**CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST**

C.O.C. #  
**S16-011-172**  
Page 1 of 1

Collector	J.R. Aguilar/CHPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650
SAF No.	S16-011	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071
Project Title	SURV, NOVEMBER 2016	Logbook No.	HNF-N-506 <u>80 / 24</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	SURV	Priority:	<b>PRIORITY</b> 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
B335C1	N	W	11-11-15	0745	1x500-mL P	300.0_ANIONS_IC: COMMON; 300.0_ANIONS_IC: GW 02	48 Hours	Cool <=6C

*Handwritten:* 1480  
WCOSSVS

December 07 2015

Relinquished By	J.R. Aguilar/CHPRC	Print	Sign	Date/Time	NOV 11 2015	1045	Received By	LEANN RIVERO (CHPRC)	Print	Sign	Date/Time	NOV 11 2015	1045	Matrix *
Relinquished By	(Signature)			Date/Time	11/11/15	1505	Received By	(Signature)			Date/Time	11/11/15	1505	S = Soil SE = Sediment SO = Solid SL = Sludge W = Water O = Oil A = Air
Relinquished By				Date/Time			Received By	1. BOCK, TARI			Date/Time			DS = Drum Solids DL = Drum Liquids T = Tissue WT = Wipe L = Liquid V = Vegetation X = Other

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time
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**CH2M/Hill Plateau Remediation Company**

**CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST**

C.O.C. #  
**S16-011-174**  
Page 1 of 1

Collector	J.R. Aguilar/CHPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650
SAF No.	S16-011	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071
Project Title	SURV, NOVEMBER 2016	Logbook No.	HNF-N-506 <u>50 / 24</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	SURV	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	* W	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B335C2	N	W	11-11-15	0924	1x500-mL P	300.0_ANIONS_IC: COMMON; 300.0_ANIONS_IC: GW 02	48 Hours	Cool <=6C

W00585  
# 1480

December 07 2015

Relinquished By	J.R. Aguilar/CHPRC	Print	Sign	Date/Time	NOV 11 2015 1045	Received By	L. D. VAN DER WOUDE (CHPRC)	Print	Sign	Date/Time	NOV 11 2015 1045
Relinquished By	L. D. VAN DER WOUDE (CHPRC)	Print	Sign	Date/Time	11/11/15 1505	Received By	J. BOCK, TARL	Print	Sign	Date/Time	11/11/15 1505
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
  - WT = Wipe
  - L = Liquid
  - V = Vegetation
  - X = Other

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time
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**CH2M HILL Plateau Remediation Company**

**CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST**

C.O.C. # **S16-011-348**  
Page 1 of 1

Collector	JR Aguilera/CH2M	Contract/Requester	Karen Waters-Husted
SAF No.	S16-011	Sampling Origin	Hanford Site
Project Title	SURV, NOVEMBER 2016	Logbook No.	HNF-N-506 80 /24
Shipped To (Lab)	TestAmerica Incorporated, Richland	Method of Shipment	GOVERNMENT VEHICLE
Protocol	SURV	Priority:	30 Days
<b>POSSIBLE SAMPLE HAZARDS/REMARKS</b>		<b>PRIORITY</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>	
Sample No.	Filter	Date	Time
B33667	N	11-11-15	1018
No/Type Container	1x500-mL P	Sample Analysis	300.0_ANIONS_IC: COMMON
Holding Time	48 Hours	Preservative	Cool <=6C
Total Activity Exemption: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Offsite Property No. N/A	

W00585  
# 1480

December 07 2015

Reinquished By	JR Aguilera/CH2M	Print	Sign
Date/Time	NOV 11 2015	Date/Time	1045
Received By	J. Bock, TARL	Date/Time	11/11/15 1505
Received By	J. Bock, TARL	Date/Time	11/11/15 1505

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



**CH2M Hill Plateau Remediation Company**

**CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST**

C.O.C. #  
**S16-011-350**  
Page 1 of 1

Collector	<b>J.R. Aguilar/CHPRC</b>	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650
SAF No.	S16-011	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071
Project Title	SURV, NOVEMBER 2016	Logbook No.	HNF-N-506 <u>80</u> / <u>24</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	SURV	Priority:	30 Days	Offsite Property No.	N/A
<b>POSSIBLE SAMPLE HAZARDS/REMARKS</b>		<b>SPECIAL INSTRUCTIONS</b>		Total Activity Exemption: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
*** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1					
Sample No.	Filter	*	Date	Time	No./Type Container
B3BF2	N	W	11-11-15	0845	1x500-mL P
Sample Analysis			Holding Time		
300.0_ANIONS_IC: COMMON			48 Hours		
Preservative			Cool <=6C		

W COSTS  
# 11480

Relinquished By	<i>J.R. Aguilar</i> Print	Sign	Date/Time	1045	Received By	<i>J. Wainwright</i> Print	Sign	Date/Time	1045
Relinquished By	<i>J.R. Aguilar/CHPRC</i>		NOV 11 2015		Received By	<i>J. Wainwright (CHPRC)</i>		NOV 11 2015	
Relinquished By	<i>J. Wainwright (CHPRC)</i>		11/11/15	1505	Received By	<i>J. Beck TABL</i>		11/11/15	1505

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

December 07 2015

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

**CH2MHill Plateau Remediation Company**

**CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST**

C.O.C. #  
**S16-011-351**

Page 1 of 1

Collector	J.R. Aguirre/CHPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650
SAF No.	S16-011	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071
Project Title	SURY, NOVEMBER 2016	Logbook No.	HNF-N-506 80 / 24	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	SURY	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
B33BF3	N	11-11-15	0902	1x500-mL P	300.0_ANIONS_IC: COMMON
					Holding Time
					48 Hours
					Preservative
					Cool <=6C

WCD585  
# 1480

December 07, 2015

Relinquished By	J.R. Aguirre/CHPRC	Print	Sign	Date/Time	NOV 11 2015	1045	Received By	LELAND WOOD (CHPRC)	Print	Sign	Date/Time	NOV 11 2015	1045
Relinquished By	LELAND WOOD (CHPRC)	Print	Sign	Date/Time	11/11/15	1505	Received By	J. BOCK, TARB	Print	Sign	Date/Time	11/11/15	1505
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



**CH2MHill Plateau Remediation Company**

**CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST**

C.O.C. # **S16-011-349**

Page 1 of 1

Collector	J.R. Aguilar/CH2M	Contact/Requester	Karen Waters-Husted
SAF No.	S16-011	Sampling Origin	Hanford Site
Project Title	SURV, NOVEMBER 2016	Logbook No.	HNF-N-506 80/24
Shipped To (Lab)	TestAmerica Incorporated, Richland	Method of Shipment	GOVERNMENT VEHICLE
Protocol	SURV	Priority:	30 Days
<b>POSSIBLE SAMPLE HAZARDS/REMARKS</b>		<b>PRIORITY</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>	
		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
B33BF1	N	W	11-11-15	1008	1x500-mL P	300.0_ANIONS_IC: COMMON	48 Hours	Cool <=6C

WCOSSS

# 1480

December 07 2015

Relinquished By J.R. Aguilar/CH2M (Signature) Date/Time: NOV 11 2015 1045	Received By J. Bock, TARL (Signature) Date/Time: NOV 11 2015 1045
Relinquished By L. D. ... (Signature) Date/Time: 11/11/15 1505	Received By (Signature) Date/Time: 1505

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

<b>FINAL SAMPLE DISPOSITION</b> Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By Date/Time
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December 07, 2015

### Detection Summary

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

TestAmerica Job ID: 300-1480-1  
SDG: WC0585

#### Client Sample ID: B335H1

#### Lab Sample ID: 300-1480-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.022		0.0040	0.0015	mg/L	1		7196A	Total/NA

#### Client Sample ID: B335F9

#### Lab Sample ID: 300-1480-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.025		0.0040	0.0015	mg/L	1		7196A	Total/NA

#### Client Sample ID: B33529

#### Lab Sample ID: 300-1480-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.0086		0.0040	0.0015	mg/L	1		7196A	Total/NA

#### Client Sample ID: B33527

#### Lab Sample ID: 300-1480-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.0085		0.0040	0.0015	mg/L	1		7196A	Total/NA

#### Client Sample ID: B335C5

#### Lab Sample ID: 300-1480-5

No Detections.

#### Client Sample ID: B335C9

#### Lab Sample ID: 300-1480-6

No Detections.

#### Client Sample ID: B335C6

#### Lab Sample ID: 300-1480-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.29		0.0040	0.0015	mg/L	1		7196A	Total/NA

#### Client Sample ID: B335D0

#### Lab Sample ID: 300-1480-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.29		0.0040	0.0015	mg/L	1		7196A	Total/NA

#### Client Sample ID: B33533

#### Lab Sample ID: 300-1480-9

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: B33535

#### Lab Sample ID: 300-1480-10

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

#### Client Sample ID: B33595

#### Lab Sample ID: 300-1480-11

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

This Detection Summary does not include radiochemical test results.

TestAmerica Richland

December 07, 2015

## Detection Summary

Client: CH2M Hill Plateau Remediation Company  
Project/Site: CH2M Hill ChemicalTestAmerica Job ID: 300-1480-1  
SDG: WC0585

## Client Sample ID: B33597

## Lab Sample ID: 300-1480-12

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: B33546

## Lab Sample ID: 300-1480-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.19		0.0040	0.0015	mg/L	1		7196A	Total/NA

## Client Sample ID: B33550

## Lab Sample ID: 300-1480-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.19		0.0040	0.0015	mg/L	1		7196A	Total/NA

## Client Sample ID: B33547

## Lab Sample ID: 300-1480-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.19		0.0040	0.0015	mg/L	1		7196A	Total/NA

## Client Sample ID: B33551

## Lab Sample ID: 300-1480-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.19		0.0040	0.0015	mg/L	1		7196A	Total/NA

## Client Sample ID: B335D4

## Lab Sample ID: 300-1480-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.094		0.0040	0.0015	mg/L	1		7196A	Total/NA

## Client Sample ID: B335D6

## Lab Sample ID: 300-1480-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr (VI)	0.094		0.0040	0.0015	mg/L	1		7196A	Total/NA

## Client Sample ID: B335C1

## Lab Sample ID: 300-1480-19

No Detections.

## Client Sample ID: B335C2

## Lab Sample ID: 300-1480-20

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	7.9	D	0.056	0.028	mg/L	2		300.0	Total/NA
Fluoride	0.12	D	0.10	0.050	mg/L	2		300.0	Total/NA
Sulfate	170	D	1.3	0.63	mg/L	5		300.0	Total/NA
Bromide	0.24	B D	0.25	0.13	mg/L	2		300.0	Total/NA

## Client Sample ID: B33667

## Lab Sample ID: 300-1480-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	1.9	D	0.40	0.20	mg/L	2		300.0	Total/NA
Nitrate as N	0.62	D	0.056	0.028	mg/L	2		300.0	Total/NA
Fluoride	0.13	D	0.10	0.050	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: CH2M Hill Chemical

TestAmerica Job ID: 300-1480-1  
 SDG: WC0585

## Client Sample ID: B33667 (Continued)

Lab Sample ID: 300-1480-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	16	D	0.50	0.25	mg/L	2		300.0	Total/NA

## Client Sample ID: B33BF2

Lab Sample ID: 300-1480-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	17	D	0.40	0.20	mg/L	2		300.0	Total/NA
Nitrate as N	6.7	D	0.056	0.028	mg/L	2		300.0	Total/NA
Fluoride	0.12	D	0.10	0.050	mg/L	2		300.0	Total/NA
Sulfate	190	D	1.3	0.63	mg/L	5		300.0	Total/NA

## Client Sample ID: B33BF3

Lab Sample ID: 300-1480-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	17	D	0.40	0.20	mg/L	2		300.0	Total/NA
Nitrate as N	6.2	D	0.056	0.028	mg/L	2		300.0	Total/NA
Fluoride	0.12	D	0.10	0.050	mg/L	2		300.0	Total/NA
Sulfate	170	D	1.3	0.63	mg/L	5		300.0	Total/NA

## Client Sample ID: B33BF1

Lab Sample ID: 300-1480-24

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	5.5	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	150	D	1.3	0.63	mg/L	5		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

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

TestAmerica Job ID: 300-1480-1  
 SDG: WC0585

**Client Sample ID: B335H1**

Date Collected: 11/11/15 09:02

Date Received: 11/11/15 15:05

**Lab Sample ID: 300-1480-1**

Matrix: Water

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.022		0.0040	0.0015	mg/L			11/11/15 18:16	1

**Client Sample ID: B335F9**

Date Collected: 11/11/15 09:02

Date Received: 11/11/15 15:05

**Lab Sample ID: 300-1480-2**

Matrix: Water

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.025		0.0040	0.0015	mg/L			11/11/15 18:17	1

**Client Sample ID: B33529**

Date Collected: 11/11/15 10:18

Date Received: 11/11/15 15:05

**Lab Sample ID: 300-1480-3**

Matrix: Water

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.0086		0.0040	0.0015	mg/L			11/11/15 18:17	1

**Client Sample ID: B33527**

Date Collected: 11/11/15 10:18

Date Received: 11/11/15 15:05

**Lab Sample ID: 300-1480-4**

Matrix: Water

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.0085		0.0040	0.0015	mg/L			11/11/15 18:18	1

**Client Sample ID: B335C5**

Date Collected: 11/11/15 07:45

Date Received: 11/11/15 15:05

**Lab Sample ID: 300-1480-5**

Matrix: Water

**General Chemistry**

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

**Client Sample ID: B335C9**

Date Collected: 11/11/15 07:45

Date Received: 11/11/15 15:05

**Lab Sample ID: 300-1480-6**

Matrix: Water

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.0015	U	0.0040	0.0015	mg/L			11/11/15 18:21	1

**Client Sample ID: B335C6**

Date Collected: 11/11/15 09:24

Date Received: 11/11/15 15:05

**Lab Sample ID: 300-1480-7**

Matrix: Water

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.29		0.0040	0.0015	mg/L			11/11/15 18:22	1

Client Sample Results

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

TestAmerica Job ID: 300-1480-1  
 SDG: WC0585

**Client Sample ID: B335D0**  
**Date Collected: 11/11/15 09:24**  
**Date Received: 11/11/15 15:05**

**Lab Sample ID: 300-1480-8**  
**Matrix: Water**

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.29		0.0040	0.0015	mg/L			11/11/15 18:23	1

**Client Sample ID: B33533**  
**Date Collected: 11/11/15 10:08**  
**Date Received: 11/11/15 15:05**

**Lab Sample ID: 300-1480-9**  
**Matrix: Water**

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.018		0.0040	0.0015	mg/L			11/11/15 18:26	1

**Client Sample ID: B33535**  
**Date Collected: 11/11/15 10:08**  
**Date Received: 11/11/15 15:05**

**Lab Sample ID: 300-1480-10**  
**Matrix: Water**

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.017		0.0040	0.0015	mg/L			11/11/15 18:26	1

**Client Sample ID: B33595**  
**Date Collected: 11/11/15 09:12**  
**Date Received: 11/11/15 15:05**

**Lab Sample ID: 300-1480-11**  
**Matrix: Water**

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.018		0.0040	0.0015	mg/L			11/11/15 18:27	1

**Client Sample ID: B33597**  
**Date Collected: 11/11/15 09:12**  
**Date Received: 11/11/15 15:05**

**Lab Sample ID: 300-1480-12**  
**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			11/11/15 18:27	1

**Client Sample ID: B33546**  
**Date Collected: 11/11/15 09:51**  
**Date Received: 11/11/15 15:05**

**Lab Sample ID: 300-1480-13**  
**Matrix: Water**

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.19		0.0040	0.0015	mg/L			11/11/15 18:27	1

**Client Sample ID: B33550**  
**Date Collected: 11/11/15 09:51**  
**Date Received: 11/11/15 15:05**

**Lab Sample ID: 300-1480-14**  
**Matrix: Water**

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.19		0.0040	0.0015	mg/L			11/11/15 18:27	1

Client Sample Results

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

TestAmerica Job ID: 300-1480-1  
 SDG: WC0585

**Client Sample ID: B33547**  
 Date Collected: 11/11/15 09:51  
 Date Received: 11/11/15 15:05

**Lab Sample ID: 300-1480-15**  
 Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.19		0.0040	0.0015	mg/L			11/11/15 18:28	1

**Client Sample ID: B33551**  
 Date Collected: 11/11/15 09:51  
 Date Received: 11/11/15 15:05

**Lab Sample ID: 300-1480-16**  
 Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.19		0.0040	0.0015	mg/L			11/11/15 18:30	1

**Client Sample ID: B335D4**  
 Date Collected: 11/11/15 08:48  
 Date Received: 11/11/15 15:05

**Lab Sample ID: 300-1480-17**  
 Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.094		0.0040	0.0015	mg/L			11/11/15 18:31	1

**Client Sample ID: B335D6**  
 Date Collected: 11/11/15 08:48  
 Date Received: 11/11/15 15:05

**Lab Sample ID: 300-1480-18**  
 Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.094		0.0040	0.0015	mg/L			11/11/15 18:31	1

**Client Sample ID: B335C1**  
 Date Collected: 11/11/15 07:45  
 Date Received: 11/11/15 15:05

**Lab Sample ID: 300-1480-19**  
 Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.20	U	0.40	0.20	mg/L			11/11/15 20:59	2
Nitrate as N	0.028	U	0.056	0.028	mg/L			11/11/15 20:59	2
Fluoride	0.050	U	0.10	0.050	mg/L			11/11/15 20:59	2
Nitrite as N	0.038	U	0.076	0.038	mg/L			11/11/15 20:59	2
Orthophosphate as P	0.082	U N	0.16	0.082	mg/L			11/11/15 20:59	2
Sulfate	0.25	U	0.50	0.25	mg/L			11/11/15 20:59	2
Bromide	0.13	U	0.25	0.13	mg/L			11/11/15 20:59	2

**Client Sample ID: B335C2**  
 Date Collected: 11/11/15 09:24  
 Date Received: 11/11/15 15:05

**Lab Sample ID: 300-1480-20**  
 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			11/11/15 21:14	2
Nitrate as N	7.9	D	0.056	0.028	mg/L			11/11/15 21:14	2
Fluoride	0.12	D	0.10	0.050	mg/L			11/11/15 21:14	2
Nitrite as N	0.038	U	0.076	0.038	mg/L			11/11/15 21:14	2
Orthophosphate as P	0.082	U N	0.16	0.082	mg/L			11/11/15 21:14	2

Client Sample Results

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

TestAmerica Job ID: 300-1480-1  
 SDG: WC0585

**Client Sample ID: B335C2**  
**Date Collected: 11/11/15 09:24**  
**Date Received: 11/11/15 15:05**

**Lab Sample ID: 300-1480-20**  
**Matrix: Water**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	170	D	1.3	0.63	mg/L			11/12/15 01:15	5
Bromide	0.24	B D	0.25	0.13	mg/L			11/11/15 21:14	2

**Client Sample ID: B33667**  
**Date Collected: 11/11/15 10:18**  
**Date Received: 11/11/15 15:05**

**Lab Sample ID: 300-1480-21**  
**Matrix: Water**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.9	D	0.40	0.20	mg/L			11/11/15 21:59	2
Nitrate as N	0.62	D	0.056	0.028	mg/L			11/11/15 21:59	2
Fluoride	0.13	D	0.10	0.050	mg/L			11/11/15 21:59	2
Nitrite as N	0.038	U	0.076	0.038	mg/L			11/11/15 21:59	2
Sulfate	16	D	0.50	0.25	mg/L			11/11/15 21:59	2

**Client Sample ID: B33BF2**  
**Date Collected: 11/11/15 08:48**  
**Date Received: 11/11/15 15:05**

**Lab Sample ID: 300-1480-22**  
**Matrix: Water**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	17	D	0.40	0.20	mg/L			11/11/15 22:14	2
Nitrate as N	6.7	D	0.056	0.028	mg/L			11/11/15 22:14	2
Fluoride	0.12	D	0.10	0.050	mg/L			11/11/15 22:14	2
Nitrite as N	0.038	U	0.076	0.038	mg/L			11/11/15 22:14	2
Sulfate	190	D	1.3	0.63	mg/L			11/12/15 01:45	5

**Client Sample ID: B33BF3**  
**Date Collected: 11/11/15 09:02**  
**Date Received: 11/11/15 15:05**

**Lab Sample ID: 300-1480-23**  
**Matrix: Water**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	17	D	0.40	0.20	mg/L			11/11/15 22:29	2
Nitrate as N	6.2	D	0.056	0.028	mg/L			11/11/15 22:29	2
Fluoride	0.12	D	0.10	0.050	mg/L			11/11/15 22:29	2
Nitrite as N	0.038	U	0.076	0.038	mg/L			11/11/15 22:29	2
Sulfate	170	D	1.3	0.63	mg/L			11/12/15 02:00	5

**Client Sample ID: B33BF1**  
**Date Collected: 11/11/15 10:08**  
**Date Received: 11/11/15 15:05**

**Lab Sample ID: 300-1480-24**  
**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			11/11/15 22:45	2
Nitrate as N	5.5	D	0.056	0.028	mg/L			11/11/15 22:45	2
Fluoride	0.11	D	0.10	0.050	mg/L			11/11/15 22:45	2
Nitrite as N	0.038	U	0.076	0.038	mg/L			11/11/15 22:45	2
Sulfate	150	D	1.3	0.63	mg/L			11/12/15 02:15	5

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 300-1942/13  
 Matrix: Water  
 Analysis Batch: 1942

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			11/11/15 18:58	1
Nitrite as N	0.019	U	0.038	0.019	mg/L			11/11/15 18:58	1
Orthophosphate as P	0.041	U	0.082	0.041	mg/L			11/11/15 18:58	1

Lab Sample ID: LCS 300-1942/14  
 Matrix: Water  
 Analysis Batch: 1942

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	2.38		mg/L		105	80 - 120
Nitrite as N	3.04	3.25		mg/L		107	80 - 120
Orthophosphate as P	6.53	6.68		mg/L		102	80 - 120

Lab Sample ID: 300-1477-A-1 MS  
 Matrix: Water  
 Analysis Batch: 1942

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as N	0.038	U	0.609	0.581	D	mg/L		96	75 - 125
Orthophosphate as P	0.082	U N	1.31	0.869	D N	mg/L		67	75 - 125

Lab Sample ID: 300-1477-A-1 DU  
 Matrix: Water  
 Analysis Batch: 1942

Client Sample ID: Duplicate  
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrite as N	0.038	U	0.038	U	mg/L		NC	20
Orthophosphate as P	0.082	U N	0.082	U	mg/L		NC	20

Lab Sample ID: MB 300-1943/13  
 Matrix: Water  
 Analysis Batch: 1943

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			11/11/15 18:58	1
Fluoride	0.025	U	0.050	0.025	mg/L			11/11/15 18:58	1
Sulfate	0.13	U	0.25	0.13	mg/L			11/11/15 18:58	1
Bromide	0.063	U	0.13	0.063	mg/L			11/11/15 18:58	1

Lab Sample ID: LCS 300-1943/14  
 Matrix: Water  
 Analysis Batch: 1943

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	16.7		mg/L		105	80 - 120
Fluoride	4.00	4.20		mg/L		105	80 - 120
Sulfate	20.0	21.0		mg/L		105	80 - 120
Bromide	10.0	10.6		mg/L		106	80 - 120

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

Lab Sample ID: 300-1477-A-1 MS

Matrix: Water

Analysis Batch: 1943

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	%Rec. Limits	
				Result	Qualifier					
Chloride	25	D	3.20	28.5	D	mg/L		99	75 - 125	
Fluoride	0.39	D	0.800	1.20	D	mg/L		101	75 - 125	
Sulfate	56	D	4.00	60.3	D	mg/L		98	75 - 125	
Bromide	0.21	B D	2.00	2.02	D	mg/L		91	75 - 125	

Lab Sample ID: 300-1477-A-1 DU

Matrix: Water

Analysis Batch: 1943

Client Sample ID: Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU DU		Unit	D	RPD	RPD Limit	
			Result	Qualifier					
Chloride	25	D	25.1	D	mg/L		0.6	20	
Fluoride	0.39	D	0.385	D	mg/L		1	20	
Sulfate	56	D	56.1	D	mg/L		0.6	20	
Bromide	0.21	B D	0.208	B D	mg/L		0.4	20	

Lab Sample ID: 300-1477-A-1 MS

Matrix: Water

Analysis Batch: 1967

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	%Rec. Limits	
				Result	Qualifier					
Nitrate as N	30	D	2.26	32.0	D	mg/L		89	75 - 125	
Nitrite as N	0.19	U	3.04	2.91	D	mg/L		96	75 - 125	
Orthophosphate as P	0.41	U	6.53	5.65	D	mg/L		87	75 - 125	

Lab Sample ID: 300-1477-A-1 DU

Matrix: Water

Analysis Batch: 1967

Client Sample ID: Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU DU		Unit	D	RPD	RPD Limit	
			Result	Qualifier					
Nitrate as N	30	D	29.8	D	mg/L		0.6	20	
Nitrite as N	0.19	U	0.19	U	mg/L		NC	20	
Orthophosphate as P	0.41	U	0.41	U	mg/L		NC	20	

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

Lab Sample ID: MB 300-1962/3

Matrix: Water

Analysis Batch: 1962

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Cr (VI)	0.0015	U	0.0040	0.0015	mg/L			11/11/15 18:03	1

Lab Sample ID: MB 300-1962/31

Matrix: Water

Analysis Batch: 1962

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Cr (VI)	0.0015	U	0.0040	0.0015	mg/L			11/11/15 18:21	1

Method: 7196A - Chromium, Hexavalent (Continued)

Lab Sample ID: LCS 300-1962/32  
 Matrix: Water  
 Analysis Batch: 1962

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	0.254		mg/L		102	80 - 120

Lab Sample ID: LCS 300-1962/4  
 Matrix: Water  
 Analysis Batch: 1962

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	0.255		mg/L		102	80 - 120

Lab Sample ID: 300-1480-7 MS  
 Matrix: Water  
 Analysis Batch: 1962

Client Sample ID: B335C6  
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cr (VI)	0.29		0.0500	0.336		mg/L		88	85 - 115

Lab Sample ID: 300-1480-7 DU  
 Matrix: Water  
 Analysis Batch: 1962

Client Sample ID: B335C6  
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Cr (VI)	0.29		0.293		mg/L		0.3	20

- 1
- 2
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- 13

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

TestAmerica Job ID: 300-1480-1  
 SDG: WC0585

## HPLC/IC

### Analysis Batch: 1942

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
300-1477-A-1 DU	Duplicate	Total/NA	Water	300.0	
300-1477-A-1 MS	Matrix Spike	Total/NA	Water	300.0	
300-1480-19	B335C1	Total/NA	Water	300.0	
300-1480-20	B335C2	Total/NA	Water	300.0	
300-1480-21	B33667	Total/NA	Water	300.0	
300-1480-22	B33BF2	Total/NA	Water	300.0	
300-1480-23	B33BF3	Total/NA	Water	300.0	
300-1480-24	B33BF1	Total/NA	Water	300.0	
LCS 300-1942/14	Lab Control Sample	Total/NA	Water	300.0	
MB 300-1942/13	Method Blank	Total/NA	Water	300.0	

### Analysis Batch: 1943

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
300-1477-A-1 DU	Duplicate	Total/NA	Water	300.0	
300-1477-A-1 MS	Matrix Spike	Total/NA	Water	300.0	
300-1480-19	B335C1	Total/NA	Water	300.0	
300-1480-20	B335C2	Total/NA	Water	300.0	
300-1480-20	B335C2	Total/NA	Water	300.0	
300-1480-21	B33667	Total/NA	Water	300.0	
300-1480-22	B33BF2	Total/NA	Water	300.0	
300-1480-22	B33BF2	Total/NA	Water	300.0	
300-1480-23	B33BF3	Total/NA	Water	300.0	
300-1480-23	B33BF3	Total/NA	Water	300.0	
300-1480-24	B33BF1	Total/NA	Water	300.0	
300-1480-24	B33BF1	Total/NA	Water	300.0	
LCS 300-1943/14	Lab Control Sample	Total/NA	Water	300.0	
MB 300-1943/13	Method Blank	Total/NA	Water	300.0	

### Analysis Batch: 1967

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
300-1477-A-1 DU	Duplicate	Total/NA	Water	300.0	
300-1477-A-1 MS	Matrix Spike	Total/NA	Water	300.0	

## General Chemistry

### Analysis Batch: 1962

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
300-1480-1	B335H1	Total/NA	Water	7196A	
300-1480-2	B335F9	Total/NA	Water	7196A	
300-1480-3	B33529	Total/NA	Water	7196A	
300-1480-4	B33527	Total/NA	Water	7196A	
300-1480-5	B335C5	Total/NA	Water	7196A	
300-1480-6	B335C9	Total/NA	Water	7196A	
300-1480-7	B335C6	Total/NA	Water	7196A	
300-1480-7 DU	B335C6	Total/NA	Water	7196A	
300-1480-7 MS	B335C6	Total/NA	Water	7196A	
300-1480-8	B335D0	Total/NA	Water	7196A	
300-1480-9	B33533	Total/NA	Water	7196A	
300-1480-10	B33535	Total/NA	Water	7196A	
300-1480-11	B33595	Total/NA	Water	7196A	

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

TestAmerica Job ID: 300-1480-1  
 SDG: WC0585

**General Chemistry (Continued)**

**Analysis Batch: 1962 (Continued)**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
300-1480-12	B33597	Total/NA	Water	7196A	
300-1480-13	B33546	Total/NA	Water	7196A	
300-1480-14	B33550	Total/NA	Water	7196A	
300-1480-15	B33547	Total/NA	Water	7196A	
300-1480-16	B33551	Total/NA	Water	7196A	
300-1480-17	B335D4	Total/NA	Water	7196A	
300-1480-18	B335D6	Total/NA	Water	7196A	
LCS 300-1962/32	Lab Control Sample	Total/NA	Water	7196A	
LCS 300-1962/4	Lab Control Sample	Total/NA	Water	7196A	
MB 300-1962/3	Method Blank	Total/NA	Water	7196A	
MB 300-1962/31	Method Blank	Total/NA	Water	7196A	

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

TestAmerica Job ID: 300-1480-1  
 SDG: WC0585

**Client Sample ID: B335H1**

Date Collected: 11/11/15 09:02

Date Received: 11/11/15 15:05

**Lab Sample ID: 300-1480-1**

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			1962	11/11/15 18:16	AMC	TAL RCH

**Client Sample ID: B335F9**

Date Collected: 11/11/15 09:02

Date Received: 11/11/15 15:05

**Lab Sample ID: 300-1480-2**

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			1962	11/11/15 18:17	AMC	TAL RCH

**Client Sample ID: B33529**

Date Collected: 11/11/15 10:18

Date Received: 11/11/15 15:05

**Lab Sample ID: 300-1480-3**

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			1962	11/11/15 18:17	AMC	TAL RCH

**Client Sample ID: B33527**

Date Collected: 11/11/15 10:18

Date Received: 11/11/15 15:05

**Lab Sample ID: 300-1480-4**

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			1962	11/11/15 18:18	AMC	TAL RCH

**Client Sample ID: B335C5**

Date Collected: 11/11/15 07:45

Date Received: 11/11/15 15:05

**Lab Sample ID: 300-1480-5**

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			1962	11/11/15 18:18	AMC	TAL RCH

**Client Sample ID: B335C9**

Date Collected: 11/11/15 07:45

Date Received: 11/11/15 15:05

**Lab Sample ID: 300-1480-6**

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			1962	11/11/15 18:21	AMC	TAL RCH

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

TestAmerica Job ID: 300-1480-1  
 SDG: WC0585

**Client Sample ID: B335C6**

Date Collected: 11/11/15 09:24  
 Date Received: 11/11/15 15:05

**Lab Sample ID: 300-1480-7**

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			1962	11/11/15 18:22	AMC	TAL RCH

**Client Sample ID: B335D0**

Date Collected: 11/11/15 09:24  
 Date Received: 11/11/15 15:05

**Lab Sample ID: 300-1480-8**

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			1962	11/11/15 18:23	AMC	TAL RCH

**Client Sample ID: B33533**

Date Collected: 11/11/15 10:08  
 Date Received: 11/11/15 15:05

**Lab Sample ID: 300-1480-9**

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			1962	11/11/15 18:26	AMC	TAL RCH

**Client Sample ID: B33535**

Date Collected: 11/11/15 10:08  
 Date Received: 11/11/15 15:05

**Lab Sample ID: 300-1480-10**

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			1962	11/11/15 18:26	AMC	TAL RCH

**Client Sample ID: B33595**

Date Collected: 11/11/15 09:12  
 Date Received: 11/11/15 15:05

**Lab Sample ID: 300-1480-11**

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			1962	11/11/15 18:27	AMC	TAL RCH

**Client Sample ID: B33597**

Date Collected: 11/11/15 09:12  
 Date Received: 11/11/15 15:05

**Lab Sample ID: 300-1480-12**

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			1962	11/11/15 18:27	AMC	TAL RCH

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

TestAmerica Job ID: 300-1480-1  
 SDG: WC0585

**Client Sample ID: B33546**

Date Collected: 11/11/15 09:51

Date Received: 11/11/15 15:05

**Lab Sample ID: 300-1480-13**

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			1962	11/11/15 18:27	AMC	TAL RCH

**Client Sample ID: B33550**

Date Collected: 11/11/15 09:51

Date Received: 11/11/15 15:05

**Lab Sample ID: 300-1480-14**

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			1962	11/11/15 18:27	AMC	TAL RCH

**Client Sample ID: B33547**

Date Collected: 11/11/15 09:51

Date Received: 11/11/15 15:05

**Lab Sample ID: 300-1480-15**

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			1962	11/11/15 18:28	AMC	TAL RCH

**Client Sample ID: B33551**

Date Collected: 11/11/15 09:51

Date Received: 11/11/15 15:05

**Lab Sample ID: 300-1480-16**

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			1962	11/11/15 18:30	AMC	TAL RCH

**Client Sample ID: B335D4**

Date Collected: 11/11/15 08:48

Date Received: 11/11/15 15:05

**Lab Sample ID: 300-1480-17**

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			1962	11/11/15 18:31	AMC	TAL RCH

**Client Sample ID: B335D6**

Date Collected: 11/11/15 08:48

Date Received: 11/11/15 15:05

**Lab Sample ID: 300-1480-18**

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			1962	11/11/15 18:31	AMC	TAL RCH

**Client Sample ID: B335C1**

Date Collected: 11/11/15 07:45

Date Received: 11/11/15 15:05

**Lab Sample ID: 300-1480-19**

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		2	10 mL		1942	11/11/15 20:59	CPM	TAL RCH
Total/NA	Analysis	300.0		2	10 mL		1943	11/11/15 20:59	CPM	TAL RCH

**Client Sample ID: B335C2**

Date Collected: 11/11/15 09:24

Date Received: 11/11/15 15:05

**Lab Sample ID: 300-1480-20**

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		2	10 mL		1942	11/11/15 21:14	CPM	TAL RCH
Total/NA	Analysis	300.0		2	10 mL		1943	11/11/15 21:14	CPM	TAL RCH
Total/NA	Analysis	300.0		5	10 mL		1943	11/12/15 01:15	CPM	TAL RCH

**Client Sample ID: B33667**

Date Collected: 11/11/15 10:18

Date Received: 11/11/15 15:05

**Lab Sample ID: 300-1480-21**

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		2	10 mL		1942	11/11/15 21:59	CPM	TAL RCH
Total/NA	Analysis	300.0		2	10 mL		1943	11/11/15 21:59	CPM	TAL RCH

**Client Sample ID: B33BF2**

Date Collected: 11/11/15 08:48

Date Received: 11/11/15 15:05

**Lab Sample ID: 300-1480-22**

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		2	10 mL		1942	11/11/15 22:14	CPM	TAL RCH
Total/NA	Analysis	300.0		2	10 mL		1943	11/11/15 22:14	CPM	TAL RCH
Total/NA	Analysis	300.0		5	10 mL		1943	11/12/15 01:45	CPM	TAL RCH

**Client Sample ID: B33BF3**

Date Collected: 11/11/15 09:02

Date Received: 11/11/15 15:05

**Lab Sample ID: 300-1480-23**

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		2	10 mL		1942	11/11/15 22:29	CPM	TAL RCH
Total/NA	Analysis	300.0		2	10 mL		1943	11/11/15 22:29	CPM	TAL RCH
Total/NA	Analysis	300.0		5	10 mL		1943	11/12/15 02:00	CPM	TAL RCH

**Client Sample ID: B33BF1**

**Lab Sample ID: 300-1480-24**

Date Collected: 11/11/15 10:08

Matrix: Water

Date Received: 11/11/15 15:05

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		1942	11/11/15 22:45	CPM	TAL RCH
Total/NA	Analysis	300.0		2	10 mL		1943	11/11/15 22:45	CPM	TAL RCH
Total/NA	Analysis	300.0		5	10 mL		1943	11/12/15 02:15	CPM	TAL RCH

**Client Sample ID: Duplicate**

**Lab Sample ID: 300-1477-A-1 DU**

Date Collected: 11/11/15 08:24

Matrix: Water

Date Received: 11/11/15 15:05

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		1942	11/11/15 19:59	CPM	TAL RCH
Total/NA	Analysis	300.0		2	10 mL		1943	11/11/15 19:59	CPM	TAL RCH
Total/NA	Analysis	300.0		10	10 mL		1967	11/12/15 12:42	CPM	TAL RCH

**Client Sample ID: B335C6**

**Lab Sample ID: 300-1480-7 DU**

Date Collected: 11/11/15 09:24

Matrix: Water

Date Received: 11/11/15 15:05

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			1962	11/11/15 18:22	AMC	TAL RCH

**Client Sample ID: Lab Control Sample**

**Lab Sample ID: LCS 300-1942/14**

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		1942	11/11/15 19:14	CPM	TAL RCH

**Client Sample ID: Lab Control Sample**

**Lab Sample ID: LCS 300-1943/14**

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		1943	11/11/15 19:14	CPM	TAL RCH

**Client Sample ID: Lab Control Sample**

**Lab Sample ID: LCS 300-1962/32**

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			1962	11/11/15 18:21	AMC	TAL RCH

**Client Sample ID: Lab Control Sample**

**Lab Sample ID: LCS 300-1962/4**

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			1962	11/11/15 18:03	AMC	TAL RCH

**Client Sample ID: Method Blank**

**Lab Sample ID: MB 300-1942/13**

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		1942	11/11/15 18:58	CPM	TAL RCH

**Client Sample ID: Method Blank**

**Lab Sample ID: MB 300-1943/13**

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		1943	11/11/15 18:58	CPM	TAL RCH

**Client Sample ID: Method Blank**

**Lab Sample ID: MB 300-1962/3**

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			1962	11/11/15 18:03	AMC	TAL RCH

**Client Sample ID: Method Blank**

**Lab Sample ID: MB 300-1962/31**

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			1962	11/11/15 18:21	AMC	TAL RCH

**Client Sample ID: Matrix Spike**

**Lab Sample ID: 300-1477-A-1 MS**

Date Collected: 11/11/15 08:24

Matrix: Water

Date Received: 11/11/15 15:05

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		1942	11/11/15 19:44	CPM	TAL RCH
Total/NA	Analysis	300.0		2	10 mL		1943	11/11/15 19:44	CPM	TAL RCH
Total/NA	Analysis	300.0		10	10 mL		1967	11/12/15 12:27	CPM	TAL RCH

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

TestAmerica Job ID: 300-1480-1  
SDG: WC0585

**Client Sample ID: B335C6**

**Lab Sample ID: 300-1480-7 MS**

**Date Collected: 11/11/15 09:24**

**Matrix: Water**

**Date Received: 11/11/15 15:05**

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	1962	11/11/15 18:22	AMC	TAL RCH

**Laboratory References:**

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

- 1
- 2
- 3
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- 13

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

TestAmerica Job ID: 300-1480-1  
SDG: WC0585

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



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

TestAmerica Job ID: 300-1480-1  
 SDG: WC0585

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
300-1480-1	B335H1	Water	11/11/15 09:02	11/11/15 15:05
300-1480-2	B335F9	Water	11/11/15 09:02	11/11/15 15:05
300-1480-3	B33529	Water	11/11/15 10:18	11/11/15 15:05
300-1480-4	B33527	Water	11/11/15 10:18	11/11/15 15:05
300-1480-5	B335C5	Water	11/11/15 07:45	11/11/15 15:05
300-1480-6	B335C9	Water	11/11/15 07:45	11/11/15 15:05
300-1480-7	B335C6	Water	11/11/15 09:24	11/11/15 15:05
300-1480-8	B335D0	Water	11/11/15 09:24	11/11/15 15:05
300-1480-9	B33533	Water	11/11/15 10:08	11/11/15 15:05
300-1480-10	B33535	Water	11/11/15 10:08	11/11/15 15:05
300-1480-11	B33595	Water	11/11/15 09:12	11/11/15 15:05
300-1480-12	B33597	Water	11/11/15 09:12	11/11/15 15:05
300-1480-13	B33546	Water	11/11/15 09:51	11/11/15 15:05
300-1480-14	B33550	Water	11/11/15 09:51	11/11/15 15:05
300-1480-15	B33547	Water	11/11/15 09:51	11/11/15 15:05
300-1480-16	B33551	Water	11/11/15 09:51	11/11/15 15:05
300-1480-17	B335D4	Water	11/11/15 08:48	11/11/15 15:05
300-1480-18	B335D6	Water	11/11/15 08:48	11/11/15 15:05
300-1480-19	B335C1	Water	11/11/15 07:45	11/11/15 15:05
300-1480-20	B335C2	Water	11/11/15 09:24	11/11/15 15:05
300-1480-21	B33667	Water	11/11/15 10:18	11/11/15 15:05
300-1480-22	B33BF2	Water	11/11/15 08:48	11/11/15 15:05
300-1480-23	B33BF3	Water	11/11/15 09:02	11/11/15 15:05
300-1480-24	B33BF1	Water	11/11/15 10:08	11/11/15 15:05

### Login Sample Receipt Checklist

Client: CH2M Hill Plateau Remediation Company

Job Number: 300-1480-1  
SDG Number: WC0585

**Login Number: 1480**  
**List Number: 1**  
**Creator: Bock, Julie A**

**List Source: TestAmerica Richland**

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

