

November 30, 2015

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Richland

2800 George Washington Way

Richland, WA 99352

Tel: (509)375-3131

TestAmerica Job ID: 300-1681-1

TestAmerica Sample Delivery Group: WC0633

Client Project/Site: CHPRC Chemical Hanford

For:

CH2M Hill Plateau Remediation Company

PO BOX 1600

Mail Stop R3-50

Richland, Washington 99352

Attn: CPP Sample Management



Authorized for release by:

11/30/2015 2:29:11 PM

Steven Campbell, Quality Assurance Assistant

[steven.campbell@testamericainc.com](mailto:steven.campbell@testamericainc.com)

Designee for

Whitney Ritari, Project Manager I

(509)375-3131 ext164

[whitney.ritari@testamericainc.com](mailto:whitney.ritari@testamericainc.com)

### LINKS

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*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.*



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

Qualifier	Qualifier Description
D	The reported value is from a dilution.
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, 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: 300-1681-1**

**Laboratory: TestAmerica Richland**

**Narrative**

**Job Narrative  
300-1681-1**

**Comments**

No additional comments.

**Receipt**

The samples were received on 11/20/2015 10:55 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.8° C.

**HPLC/IC**

Method 300.0: Manual integration was performed on the following sample for Sulfate and Orthophosphate as P: B331P5 (300-1681-4). The matrix spike (MS) recoveries for analytical batch 300-2112 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.



CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #  
**X15-067-031**

Page 1 of 1

Collector	J.R. Aguilar/CHPRC	Contact/Requester	WHITLEY, KM	Telephone No.	373-4929
SAF No.	X15-067	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300205
Project Title	300 Area Uranium Sequestration Post Inj	Logbook No.	HNF-N-506 <u>80 / 38</u>	Ice Chest No.	N/A
Shipped To (Lab)	TestAmerica Incorporated, Richland	Method of Shipment	GOVERNMENT VEHICLE	Bill of Lading/Air Bill No.	N/A
Protocol	CERCLA	Priority:	30 Days	Offsite Property No.	N/A
<b>POSSIBLE SAMPLE HAZARDS/REMARKS</b>			<b>SPECIAL INSTRUCTIONS</b>		
*Contains Radioactive Material at concentrations that are not be regulated for transportation per 49 CFR/LATA 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
B331N3	N	W	11-20-15	0821	1x500-mL P	300.0_ANIONS_IC: COMMON; 300.0_ANIONS_IC: GW 01	48 Hours	Cool <=6C



300-1681 COC

*Handwritten notes:*  
#116815  
WCO633  
#11681

November 30 2015

Relinquished By	J.R. Aguilar/CHPRC	Print	Sign	Date/Time	NOV 20 2015 1045	Received By	L.D. Wall	Print	Sign	Date/Time	NOV 20 2015 1045	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	CHPRC	Print	Sign	Date/Time	NOV 20 2015 1055	Received By	J. Friesz, TARI	Print	Sign	Date/Time	NOV 20 2015 1055	
Relinquished By		Print	Sign	Date/Time		Received By		Print	Sign	Date/Time		

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

**CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST**

C.O.C. # **X15-067-037**  
Page 1 of 1

Collector	J.R. Aguilar/CHPRC	Contact/Requester	WHITLEY, KM	Telephone No.	373-4929
SAF No.	X15-067	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300205
Project Title	300 Area Uranium Sequestration Post Inj	Logbook No.	HNF-N-506 <u>So</u> / <u>38</u>	Ice Chest No.	N/A
Shipped To (Lab)	TestAmerica Incorporated, Richland	Method of Shipment	GOVERNMENT VEHICLE	Bill of Lading/Air Bill No.	N/A
Protocol	CERCLA	Priority:	30 Days	Offsite Property No.	N/A
<b>POSSIBLE SAMPLE HAZARDS/REMARKS</b>			<b>SPECIAL INSTRUCTIONS</b>		
*Contains Radioactive Material at concentrations that are not be regulated for transportation per 49 CER/LATA 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
B331P1	N	W	11-20-15	1020	1x500-mL P	300.0 ANIONS_IC: COMMON; 300.0 ANIONS_IC: GW/01	48 Hours	Cool <=6C

wc0633  
#1681

November 30 2015

Relinquished By	J.R. Aguilar/CHPRC	Date	NOV 20 2015	Sign	[Signature]	Date/Time	NOV 20 2015 1045	Received By	E.D. Wall/CHPRC	Date/Time	NOV 20 2015 1045	Print	[Signature]	Date/Time	NOV 20 2015 1045
Relinquished By	E.D. Wall/CHPRC	Date	NOV 20 2015	Sign	[Signature]	Date/Time	NOV 20 2015 1055	Received By	J. Friesz, TARL	Date/Time	NOV 20 2015 1055	Print	[Signature]	Date/Time	NOV 20 2015 1055

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

Relinquished By	[Blank]	Date/Time	[Blank]	Received By	[Blank]	Date/Time	[Blank]
<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. #

**X15-067-038**

Page 1 of 1

Collector	J.R. Aguilar/CHPRC	Contact/Requester	WHITLEY, KM	Telephone No.	373-4929
SAF No.	X15-067	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300205
Project Title	300 Area Uranium Sequestration Post Inj	Logbook No.	HNF-N-506 80 / 38	Ice Chest No.	N/A
Shipped To (Lab)	TestAmerica Incorporated, Richland	Method of Shipment	GOVERNMENT VEHICLE	Bill of Lading/Air Bill No.	N/A
Protocol	CERCLA	Priority:	30 Days	Offsite Property No.	N/A
<b>POSSIBLE SAMPLE HAZARDS/REMARKS</b>			<b>SPECIAL INSTRUCTIONS</b>		
*Contains Radioactive Material at concentrations that are not be regulated for transportation per 49 CFR/ATA 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
B331L7	N	W	11-20-15	0917	1x500-mL P	300.0_ANIONS_IC: COMMON; 300.0_ANIONS_IC: GW 01	48 Hours	Cool <=6C

W 10633  
# 1681

November 30 2015

Relinquished By	J.R. Aguilar/CHPRC	Print	Sign	Date/Time	NOV 20 2015 1045	Received By	L.D. Wall/CHPRC	Print	Sign	Date/Time	NOV 20 2015 1045
Relinquished By	L.D. Wall/CHPRC	Print	Sign	Date/Time	NOV 20 2015 1055	Received By	J. Friesz, TARI	Print	Sign	Date/Time	NOV 20 2015 1055
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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**CH2MHill Plateau Remediation Company**

**CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST**

C.O.C. # **X15-067-045**  
Page 1 of 1

Collector	J.R. Aguiar/CHPRC	Contact/Requester	WHITLEY, KM	Telephone No.	373-4929
SAF No.	X15-067	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300205
Project Title	300 Area Uranium Sequestration Post Proj	Logbook No.	HNF-N-506 <u>52</u> <u>B8</u>	Ice Chest No.	N/A
Shipped To (Lab)	TestAmerica Incorporated, Richland	Method of Shipment	GOVERNMENT VEHICLE	Bill of Lading/Air Bill No.	N/A
Protocol	CERCLA	Priority:	30 Days <b>PRIORITY</b>	Offsite Property No.	N/A
<b>POSSIBLE SAMPLE HAZARDS/REMARKS</b>			<b>SPECIAL INSTRUCTIONS</b>		
*Contains Radioactive Material at concentrations that are not be regulated for transportation per 49 CFR/LATA 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
B331P5	N	W	11-20-15	1030	1X500-mL P 300.0 ANIONS_IC: COMMON; 300.0 ANIONS_IC: GW 01	48 Hours	Cool <=6C

wc0633  
#1681

November 30 2015

Relinquished By	J.R. Aguiar/CHPRC	Print	Sign	NOV 20 2015	Date/Time	1045	Received By	L.D. Wall/CHPRC	Print	Sign	NOV 20 2015	Date/Time	1045
Relinquished By	L.D. Wall/CHPRC	Print	Sign	NOV 20 2015	Date/Time	1055	Received By	J. Friesz, TAR	Print	Sign	NOV 20 2015	Date/Time	1055
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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**CH2MHill Plateau Remediation Company**

**CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST**

C.O.C. #  
**X15-067-050**  
Page 1 of 1

Collector	J.R. Aguilar/CHPRC	Contact/Requester	WHITLEY, KM	Telephone No.	373-4929
SAF No.	X15-067	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300205
Project Title	300 Area Uranium Sequestration Post Inj	Logbook No.	HNF-N-506 <u>80/38</u>	Ice Chest No.	N/A
Shipped To (Lab)	TestAmerica Incorporated, Richland	Method of Shipment	GOVERNMENT VEHICLE	Bill of Lading/Air Bill No.	N/A
Protocol	CERCLA	Priority:	30 Days	Offsite Property No.	N/A
<b>POSSIBLE SAMPLE HAZARDS/REMARKS</b>			<b>SPECIAL INSTRUCTIONS</b>		
*Contains Radioactive Material at concentrations that are not be regulated for transportation per 49 CFR/LATA 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
B331M1	N	W	11-20-15	0950	1x500-mL P	300.0_ANIONS_IC: COMMON; 300.0_ANIONS_IC: GW 01	48 Hours	Cool <=6C

WUC633  
#1181

November 30 2015

Reinquired By	J.R. Aguilar/CHPRC	Print	Sign	Date/Time	NOV 20 2015 1045	Received By	L.D. Wall	Print	Sign	Date/Time	NOV 20 2015 1045
Reinquired By	L.D. Wall	CHPRC	[Signature]	NOV 20 2015 1055	Received By	[Signature]	[Signature]	NOV 20 2015 1055			
Reinquired By	[Signature]	Date/Time	Received By	Date/Time	Received By	Date/Time					

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

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time
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**CH2MHill Plateau Remediation Company**

**CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST**

C.O.C. # **X15-067-051**  
Page 1 of 1

Collector	J.R. Aguilar/CHPRC	Contact/Requester	WHITLEY, KM	Telephone No.	373-4929
SAF No.	X15-067	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300205
Project Title	300 Area Uranium Sequestration Post Inj	Logbook No.	HNF-N-506 <u>50/35</u>	Ice Chest No.	N/A
Shipped To (Lab)	TestAmerica Incorporated, Richland	Method of Shipment	GOVERNMENT VEHICLE	Bill of Lading/Air Bill No.	N/A
Protocol	CERCLA	Priority:	30 Days <b>PRIORITY</b>	Offsite Property No.	N/A
<b>POSSIBLE SAMPLE HAZARDS/REMARKS</b>			<b>SPECIAL INSTRUCTIONS</b>		
*Contains Radioactive Material at concentrations that are not be regulated for transportation per 49 CFR/LATA 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
B331N7	N	W	11-20-15	0846	1x500-mL P 300.0 ANIONS_IC: COMMON; 300.0 ANIONS_IC: GW 01	48 Hours	Cool <=6C

W 60633  
#1681

November 30 2015

Relinquished By	<i>[Signature]</i>	Print	Sign	Date/Time	NOV 20 2015	1045	Received By	E.D. Wall	Print	Sign	Date/Time	NOV 20 2015	1045	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
J.R. Aguilar/CHPRC							Received By	J. Friesz, TARR						
Relinquished By	L.D. Wall	Print	Sign	Date/Time	NOV 20 2015	1055	Received By							
Relinquished By	CHPRC			Date/Time			Received By							

Relinquished By		Date/Time	Received By		Date/Time
FINAL SAMPLE DISPOSITION	Disposed 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. #  
**X15-067-079**  
Page 1 of 1

Collector	J.R. Aguilar/CHPRC	Contact/Requester	WHITLEY, KM	Telephone No.	373-4929
SAF No.	X15-067	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300205
Project Title	300 Area Uranium Sequestration Post Inj	Logbook No.	HNF-N-506 <u>80</u> / <u>38</u>	Ice Chest No.	N/A
Shipped To (Lab)	TestAmerica Incorporated, Richland	Method of Shipment	GOVERNMENT VEHICLE	Bill of Lading/Air Bill No.	N/A
Protocol	CERCLA	Priority:	<b>PRIORITY</b>	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/ATA 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"/>			Holding Time		

Sample No.	Filter	*	Date	Time	No./Type Container	Sample Analysis	Holding Time	Preservative
B33202	N	W	11-20-15	1020	1x500-mL P	300.0 ANIONS, IC: COMMON; 300.0 ANIONS, IC: GW 01	48 Hours	Cool <=6C

W 60633  
#1681

November 30 2015

Relinquished By	J.R. Aguilar/CHPRC	Print	Sign	NOV 20 2015	Date/Time	1045	Received By	L.D. Wall	Print	Sign	NOV 20 2015	Date/Time	1045
Relinquished By	L.D. Wall	Print	Sign	NOV 20 2015	Date/Time	1055	Received By	J. Friesz, TART	Print	Sign	NOV 20 2015	Date/Time	1055
Relinquished By		Print	Sign		Date/Time		Received By		Print	Sign		Date/Time	

Matrix \*

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

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time
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Client: CH2M Hill Plateau Remediation Company  
 Project/Site: CHPRC Chemical Hanford

TestAmerica Job ID: 300-1681-1  
 SDG: WC0633

## Client Sample ID: B331N3

## Lab Sample ID: 300-1681-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	20	D	0.40	0.20	mg/L	2		300.0	Total/NA
Nitrate as N	5.4	D	0.056	0.028	mg/L	2		300.0	Total/NA
Fluoride	0.31	D	0.10	0.050	mg/L	2		300.0	Total/NA
Orthophosphate as P	13	D	0.16	0.082	mg/L	2		300.0	Total/NA
Sulfate	57	D	0.50	0.25	mg/L	2		300.0	Total/NA

## Client Sample ID: B331P1

## Lab Sample ID: 300-1681-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	19	B D	20	10	mg/L	100		300.0	Total/NA
Nitrate as N	4.1	D	2.8	1.4	mg/L	100		300.0	Total/NA
Orthophosphate as P	420	D	8.2	4.1	mg/L	100		300.0	Total/NA
Sulfate	46	D	25	13	mg/L	100		300.0	Total/NA

## Client Sample ID: B331L7

## Lab Sample ID: 300-1681-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	20	D	0.40	0.20	mg/L	2		300.0	Total/NA
Nitrate as N	5.7	D	0.056	0.028	mg/L	2		300.0	Total/NA
Fluoride	0.36	D	0.10	0.050	mg/L	2		300.0	Total/NA
Orthophosphate as P	0.31	D	0.16	0.082	mg/L	2		300.0	Total/NA
Sulfate	61	D	0.50	0.25	mg/L	2		300.0	Total/NA

## Client Sample ID: B331P5

## Lab Sample ID: 300-1681-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	22	B D	40	20	mg/L	200		300.0	Total/NA
Nitrate as N	3.2	B D	5.6	2.8	mg/L	200		300.0	Total/NA
Orthophosphate as P	1300	D	16	8.2	mg/L	200		300.0	Total/NA
Sulfate	35	B D	50	25	mg/L	200		300.0	Total/NA

## Client Sample ID: B331M1

## Lab Sample ID: 300-1681-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	19	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	0.27	D	0.10	0.050	mg/L	2		300.0	Total/NA
Sulfate	60	D	0.50	0.25	mg/L	2		300.0	Total/NA

## Client Sample ID: B331N7

## Lab Sample ID: 300-1681-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	23	D	0.40	0.20	mg/L	2		300.0	Total/NA
Nitrate as N	6.1	D	0.056	0.028	mg/L	2		300.0	Total/NA
Fluoride	0.36	D	0.10	0.050	mg/L	2		300.0	Total/NA
Sulfate	61	D	0.50	0.25	mg/L	2		300.0	Total/NA

## Client Sample ID: B33202

## Lab Sample ID: 300-1681-7

This Detection Summary does not include radiochemical test results.

November 30, 2015

### Detection Summary

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

TestAmerica Job ID: 300-1681-1  
SDG: WC0633

**Client Sample ID: B33202 (Continued)**

**Lab Sample ID: 300-1681-7**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	20	D	20	10	mg/L	100		300.0	Total/NA
Nitrate as N	4.1	D	2.8	1.4	mg/L	100		300.0	Total/NA
Orthophosphate as P	420	D	8.2	4.1	mg/L	100		300.0	Total/NA
Sulfate	46	D	25	13	mg/L	100		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Richland

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

TestAmerica Job ID: 300-1681-1  
 SDG: WC0633

**Client Sample ID: B331N3**

Date Collected: 11/20/15 08:21

Date Received: 11/20/15 10:55

**Lab Sample ID: 300-1681-1**

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	20	D	0.40	0.20	mg/L			11/20/15 13:25	2
Nitrate as N	5.4	D	0.056	0.028	mg/L			11/20/15 13:25	2
Fluoride	0.31	D	0.10	0.050	mg/L			11/20/15 13:25	2
Nitrite as N	0.038	U	0.076	0.038	mg/L			11/20/15 13:25	2
Orthophosphate as P	13	D	0.16	0.082	mg/L			11/20/15 13:25	2
Sulfate	57	D	0.50	0.25	mg/L			11/20/15 13:25	2

**Client Sample ID: B331P1**

Date Collected: 11/20/15 10:20

Date Received: 11/20/15 10:55

**Lab Sample ID: 300-1681-2**

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	19	B D	20	10	mg/L			11/20/15 15:25	100
Nitrate as N	4.1	D	2.8	1.4	mg/L			11/20/15 15:25	100
Fluoride	2.5	U	5.0	2.5	mg/L			11/20/15 15:25	100
Nitrite as N	1.9	U	3.8	1.9	mg/L			11/20/15 15:25	100
Orthophosphate as P	420	D	8.2	4.1	mg/L			11/20/15 15:25	100
Sulfate	46	D	25	13	mg/L			11/20/15 15:25	100

**Client Sample ID: B331L7**

Date Collected: 11/20/15 09:17

Date Received: 11/20/15 10:55

**Lab Sample ID: 300-1681-3**

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	20	D	0.40	0.20	mg/L			11/20/15 14:10	2
Nitrate as N	5.7	D	0.056	0.028	mg/L			11/20/15 14:10	2
Fluoride	0.36	D	0.10	0.050	mg/L			11/20/15 14:10	2
Nitrite as N	0.038	U	0.076	0.038	mg/L			11/20/15 14:10	2
Orthophosphate as P	0.31	D	0.16	0.082	mg/L			11/20/15 14:10	2
Sulfate	61	D	0.50	0.25	mg/L			11/20/15 14:10	2

**Client Sample ID: B331P5**

Date Collected: 11/20/15 10:38

Date Received: 11/20/15 10:55

**Lab Sample ID: 300-1681-4**

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	22	B D	40	20	mg/L			11/20/15 15:40	200
Nitrate as N	3.2	B D	5.6	2.8	mg/L			11/20/15 15:40	200
Fluoride	5.0	U	10	5.0	mg/L			11/20/15 15:40	200
Nitrite as N	3.8	U	7.6	3.8	mg/L			11/20/15 15:40	200
Orthophosphate as P	1300	D	16	8.2	mg/L			11/20/15 15:40	200
Sulfate	35	B D	50	25	mg/L			11/20/15 15:40	200

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

TestAmerica Job ID: 300-1681-1  
 SDG: WC0633

**Client Sample ID: B331M1**

Date Collected: 11/20/15 09:50

Date Received: 11/20/15 10:55

**Lab Sample ID: 300-1681-5**

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	19	D	0.40	0.20	mg/L			11/20/15 14:25	2
Nitrate as N	6.2	D	0.056	0.028	mg/L			11/20/15 14:25	2
Fluoride	0.27	D	0.10	0.050	mg/L			11/20/15 14:25	2
Nitrite as N	0.038	U	0.076	0.038	mg/L			11/20/15 14:25	2
Orthophosphate as P	0.082	U	0.16	0.082	mg/L			11/20/15 14:25	2
Sulfate	60	D	0.50	0.25	mg/L			11/20/15 14:25	2

**Client Sample ID: B331N7**

Date Collected: 11/20/15 08:46

Date Received: 11/20/15 10:55

**Lab Sample ID: 300-1681-6**

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	23	D	0.40	0.20	mg/L			11/20/15 14:40	2
Nitrate as N	6.1	D	0.056	0.028	mg/L			11/20/15 14:40	2
Fluoride	0.36	D	0.10	0.050	mg/L			11/20/15 14:40	2
Nitrite as N	0.038	U	0.076	0.038	mg/L			11/20/15 14:40	2
Orthophosphate as P	0.082	U	0.16	0.082	mg/L			11/20/15 14:40	2
Sulfate	61	D	0.50	0.25	mg/L			11/20/15 14:40	2

**Client Sample ID: B33202**

Date Collected: 11/20/15 10:20

Date Received: 11/20/15 10:55

**Lab Sample ID: 300-1681-7**

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	20	D	20	10	mg/L			11/20/15 15:55	100
Nitrate as N	4.1	D	2.8	1.4	mg/L			11/20/15 15:55	100
Fluoride	2.5	U	5.0	2.5	mg/L			11/20/15 15:55	100
Nitrite as N	1.9	U	3.8	1.9	mg/L			11/20/15 15:55	100
Orthophosphate as P	420	D	8.2	4.1	mg/L			11/20/15 15:55	100
Sulfate	46	D	25	13	mg/L			11/20/15 15:55	100

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 300-2112/5  
Matrix: Water  
Analysis Batch: 2112

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			11/20/15 12:55	1
Nitrite as N	0.019	U	0.038	0.019	mg/L			11/20/15 12:55	1
Orthophosphate as P	0.041	U	0.082	0.041	mg/L			11/20/15 12:55	1

Lab Sample ID: LCS 300-2112/6  
Matrix: Water  
Analysis Batch: 2112

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	2.39		mg/L		106	80 - 120
Nitrite as N	3.04	3.25		mg/L		107	80 - 120
Orthophosphate as P	6.53	6.93		mg/L		106	80 - 120

Lab Sample ID: 300-1681-1 MS  
Matrix: Water  
Analysis Batch: 2112

Client Sample ID: B331N3  
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	5.4	D	0.452	5.92	D	mg/L		116	75 - 125
Nitrite as N	0.038	U	0.609	0.575	D	mg/L		94	75 - 125
Orthophosphate as P	13	D	1.31	13.6	D	mg/L		74	75 - 125

Lab Sample ID: 300-1681-1 DU  
Matrix: Water  
Analysis Batch: 2112

Client Sample ID: B331N3  
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Nitrate as N	5.4	D	5.40	D	mg/L		0.2	20
Nitrite as N	0.038	U	0.038	U	mg/L		NC	20
Orthophosphate as P	13	D	12.5	D	mg/L		1	20

Lab Sample ID: MB 300-2113/5  
Matrix: Water  
Analysis Batch: 2113

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			11/20/15 12:55	1
Fluoride	0.025	U	0.050	0.025	mg/L			11/20/15 12:55	1
Sulfate	0.13	U	0.25	0.13	mg/L			11/20/15 12:55	1

Lab Sample ID: LCS 300-2113/6  
Matrix: Water  
Analysis Batch: 2113

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	16.8		mg/L		105	80 - 120
Fluoride	4.00	4.23		mg/L		106	80 - 120
Sulfate	20.0	21.2		mg/L		106	80 - 120

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 300-1681-1 MS  
 Matrix: Water  
 Analysis Batch: 2113

Client Sample ID: B331N3  
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	20	D	3.20	23.4	D	mg/L		109	75 - 125
Fluoride	0.31	D	0.800	1.09	D	mg/L		98	75 - 125
Sulfate	57	D	4.00	61.6	D	mg/L		118	75 - 125

Lab Sample ID: 300-1681-1 DU  
 Matrix: Water  
 Analysis Batch: 2113

Client Sample ID: B331N3  
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chloride	20	D	19.9	D	mg/L		0.2	20
Fluoride	0.31	D	0.307	D	mg/L		0.3	20
Sulfate	57	D	57.0	D	mg/L		0.3	20

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

TestAmerica Job ID: 300-1681-1  
 SDG: WC0633

## HPLC/IC

### Analysis Batch: 2112

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
300-1681-1	B331N3	Total/NA	Water	300.0	
300-1681-1 DU	B331N3	Total/NA	Water	300.0	
300-1681-1 MS	B331N3	Total/NA	Water	300.0	
300-1681-2	B331P1	Total/NA	Water	300.0	
300-1681-3	B331L7	Total/NA	Water	300.0	
300-1681-4	B331P5	Total/NA	Water	300.0	
300-1681-5	B331M1	Total/NA	Water	300.0	
300-1681-6	B331N7	Total/NA	Water	300.0	
300-1681-7	B33202	Total/NA	Water	300.0	
LCS 300-2112/6	Lab Control Sample	Total/NA	Water	300.0	
MB 300-2112/5	Method Blank	Total/NA	Water	300.0	

### Analysis Batch: 2113

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
300-1681-1	B331N3	Total/NA	Water	300.0	
300-1681-1 DU	B331N3	Total/NA	Water	300.0	
300-1681-1 MS	B331N3	Total/NA	Water	300.0	
300-1681-2	B331P1	Total/NA	Water	300.0	
300-1681-3	B331L7	Total/NA	Water	300.0	
300-1681-4	B331P5	Total/NA	Water	300.0	
300-1681-5	B331M1	Total/NA	Water	300.0	
300-1681-6	B331N7	Total/NA	Water	300.0	
300-1681-7	B33202	Total/NA	Water	300.0	
LCS 300-2113/6	Lab Control Sample	Total/NA	Water	300.0	
MB 300-2113/5	Method Blank	Total/NA	Water	300.0	

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

TestAmerica Job ID: 300-1681-1  
 SDG: WC0633

**Client Sample ID: B331N3**

Date Collected: 11/20/15 08:21

Date Received: 11/20/15 10:55

**Lab Sample ID: 300-1681-1**

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	300.0		2	10 mL		2112	11/20/15 13:25	CPM	TAL RCH
Total/NA	Analysis	300.0		2	10 mL		2113	11/20/15 13:25	CPM	TAL RCH

**Client Sample ID: B331P1**

Date Collected: 11/20/15 10:20

Date Received: 11/20/15 10:55

**Lab Sample ID: 300-1681-2**

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	300.0		100	10 mL		2112	11/20/15 15:25	CPM	TAL RCH
Total/NA	Analysis	300.0		100	10 mL		2113	11/20/15 15:25	CPM	TAL RCH

**Client Sample ID: B331L7**

Date Collected: 11/20/15 09:17

Date Received: 11/20/15 10:55

**Lab Sample ID: 300-1681-3**

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	300.0		2	10 mL		2112	11/20/15 14:10	CPM	TAL RCH
Total/NA	Analysis	300.0		2	10 mL		2113	11/20/15 14:10	CPM	TAL RCH

**Client Sample ID: B331P5**

Date Collected: 11/20/15 10:38

Date Received: 11/20/15 10:55

**Lab Sample ID: 300-1681-4**

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	300.0		200	10 mL		2112	11/20/15 15:40	CPM	TAL RCH
Total/NA	Analysis	300.0		200	10 mL		2113	11/20/15 15:40	CPM	TAL RCH

**Client Sample ID: B331M1**

Date Collected: 11/20/15 09:50

Date Received: 11/20/15 10:55

**Lab Sample ID: 300-1681-5**

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	300.0		2	10 mL		2112	11/20/15 14:25	CPM	TAL RCH
Total/NA	Analysis	300.0		2	10 mL		2113	11/20/15 14:25	CPM	TAL RCH

**Client Sample ID: B331N7**

Date Collected: 11/20/15 08:46

Date Received: 11/20/15 10:55

**Lab Sample ID: 300-1681-6**

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	300.0		2	10 mL		2112	11/20/15 14:40	CPM	TAL RCH

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

TestAmerica Job ID: 300-1681-1  
 SDG: WC0633

**Client Sample ID: B331N7**

Date Collected: 11/20/15 08:46

Date Received: 11/20/15 10:55

**Lab Sample ID: 300-1681-6**

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	300.0		2	10 mL		2113	11/20/15 14:40	CPM	TAL RCH

**Client Sample ID: B33202**

Date Collected: 11/20/15 10:20

Date Received: 11/20/15 10:55

**Lab Sample ID: 300-1681-7**

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	300.0		100	10 mL		2112	11/20/15 15:55	CPM	TAL RCH
Total/NA	Analysis	300.0		100	10 mL		2113	11/20/15 15:55	CPM	TAL RCH

**Client Sample ID: B331N3**

Date Collected: 11/20/15 08:21

Date Received: 11/20/15 10:55

**Lab Sample ID: 300-1681-1 DU**

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		2	10 mL		2112	11/20/15 13:55	CPM	TAL RCH
Total/NA	Analysis	300.0		2	10 mL		2113	11/20/15 13:55	CPM	TAL RCH

**Client Sample ID: Lab Control Sample**

Date Collected: N/A

Date Received: N/A

**Lab Sample ID: LCS 300-2112/6**

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	300.0		1	10 mL		2112	11/20/15 13:10	CPM	TAL RCH

**Client Sample ID: Lab Control Sample**

Date Collected: N/A

Date Received: N/A

**Lab Sample ID: LCS 300-2113/6**

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	300.0		1	10 mL		2113	11/20/15 13:10	CPM	TAL RCH

**Client Sample ID: Method Blank**

Date Collected: N/A

Date Received: N/A

**Lab Sample ID: MB 300-2112/5**

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	300.0		1	10 mL		2112	11/20/15 12:55	CPM	TAL RCH

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

TestAmerica Job ID: 300-1681-1  
 SDG: WC0633

**Client Sample ID: Method Blank**

**Lab Sample ID: MB 300-2113/5**

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	10 mL		2113	11/20/15 12:55	CPM	TAL RCH

**Client Sample ID: B331N3**

**Lab Sample ID: 300-1681-1 MS**

Date Collected: 11/20/15 08:21

Matrix: Water

Date Received: 11/20/15 10:55

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		2112	11/20/15 13:40	CPM	TAL RCH
Total/NA	Analysis	300.0		2	10 mL		2113	11/20/15 13:40	CPM	TAL RCH

**Laboratory References:**

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

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

TestAmerica Job ID: 300-1681-1  
SDG: WC0633

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Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	MCAWW	TAL RCH

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**Protocol References:**

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

**Laboratory References:**

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



### Sample Summary

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

TestAmerica Job ID: 300-1681-1  
SDG: WC0633

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
300-1681-1	B331N3	Water	11/20/15 08:21	11/20/15 10:55
300-1681-2	B331P1	Water	11/20/15 10:20	11/20/15 10:55
300-1681-3	B331L7	Water	11/20/15 09:17	11/20/15 10:55
300-1681-4	B331P5	Water	11/20/15 10:38	11/20/15 10:55
300-1681-5	B331M1	Water	11/20/15 09:50	11/20/15 10:55
300-1681-6	B331N7	Water	11/20/15 08:46	11/20/15 10:55
300-1681-7	B33202	Water	11/20/15 10:20	11/20/15 10:55



Login Sample Receipt Checklist

Client: CH2M Hill Plateau Remediation Company

Job Number: 300-1681-1

SDG Number: WC0633

**Login Number: 1681**

**List Number: 1**

**Creator: Friesz, Jordan D**

**List Source: TestAmerica Richland**

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

