

October 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: 300-1186-1  
TestAmerica Sample Delivery Group: WC0486  
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:  
10/30/2015 3:53:50 PM  
Steven Campbell, Quality Assurance Assistant  
[steven.campbell@testamericainc.com](mailto:steven.campbell@testamericainc.com)

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

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

*The laboratory is accredited to EPA 7196A in Solid and Chemical Materials, per Washington State Department of Ecology this is approved for non-discharge water samples. The sample/ sample duplicate RPD agreement is not applicable if one or both results are elss than five times the MDL.*



### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



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## Qualifiers

### HPLC/IC

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

## Glossary

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

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

TestAmerica Job ID: 300-1186-1  
SDG: WC0486

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**Job ID: 300-1186-1**

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**Laboratory: TestAmerica Richland**

**Narrative**

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**Job Narrative  
300-1186-1**

**Comments**

No additional comments.

**Receipt**

The samples were received on 10/22/2015 1:00 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 10.2° C.

**HPLC/IC**

Method 300.0: Manual integration was performed on the following sample for Sulfate: B32TK5 (300-1186-2).

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

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**CH2M Hill Plateau Remediation Company**

**CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST**

C.O.C. # **X16-001-147**  
Page 1 of 1

Collector <b>CHRIS FULTON CHPRC</b>	Contact/Requester Karen Waters-Husted	Telephone No. 509-376-4650
SAF No. X16-001	Sampling Origin Hanford Site	Purchase Order/Charge Code 303271
Project Title 100-BC-5 RI, OCTOBER 2015	Logbook No. HNF-N-506 <u>80/2</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>		
*** 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> Submit deliverables & invoices to ^CP Sample Management		
<b>Hold Time</b> Total Activity Exemption: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
Sample No. B32V16	Filter N	Date OCT 22 2015
Time 1600	No./Type Container 1x500-mL P	Sample Analysis 300.0_ANIONS_IC: COMMON
	Holding Time 48 Hours	Preservative Cool <=6C

October 30, 2015

300-1186 COC



#1186  
WCO486

Relinquished By <b>CHRIS FULTON CHPRC</b>	Sign 	Date/Time OCT 22 2015	Received By <b>L.D. Wall CHPRC</b>	Print <b>L.D. Wall</b>	Sign 	Date/Time OCT 22 2015	Matrix *
Relinquished By <b>L.D. Wall</b>	Sign 	Date/Time OCT 22 2015	Received By <b>J. Bock, TARL</b>	Print <b>J. Bock, TARL</b>	Sign 	Date/Time OCT 22 2015	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	Sign	Date/Time	Received By	Print	Sign	Date/Time	

<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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**CH2M Hill Plateau Remediation Company**

**CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST**

C.O.C. #  
**X16-001-111**  
Page 1 of 1

Collector	CHRIS FULTON CHPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650
SAF No.	X16-001	Sampling Origin	Hanford Site	Purchase Order/Charge Code	303271
Project Title	100-BC-5 RI, OCTOBER 2015	Logbook No.	HNF-N-506 <u>SD / 2</u>	Ice Chest No.	N/A
Shipped To (Lab)	TestAmerica Incorporated, Richland	Method of Shipment	GOVERNMENT VEHICLE	Bill of Lading/Air Bill No.	N/A
Protocol	CERCLA	Priority:	30 Days	Offsite Property No.	N/A
<b>POSSIBLE SAMPLE HAZARDS/REMARKS</b>			<b>SPECIAL INSTRUCTIONS</b>		
*** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1			Submit deliverables & invoices to CPP Sample Management		
Sample No.	B32TK5	Filter	N	Date	W OCT 22 2015
		Time	0919	No./Type Container	1x500-mL P
		Sample Analysis	300.0_ANIONS_IC: COMMON	Holding Time	48 Hours
		Preservative			Cool <=6C

October 30, 2015

#1186  
WCO486

Relinquished By	CHRIS FULTON CHPRC	Received By	LD. Wall CHPRC	Date/Time	OCT 22 2015 1021
Relinquished By	LD. Wall CHPRC	Received By	J. Bock, TARI	Date/Time	OCT 22 2015 1330
Relinquished By		Received By		Date/Time	
<b>FINAL SAMPLE DISPOSITION</b>		Disposal Method (e.g., Return to customer, per lab procedure, used in process)		Disposed By	

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

October 30, 2015  
**Detection Summary**

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

TestAmerica Job ID: 300-1186-1  
SDG: WC0486

**Client Sample ID: B32V16**

**Lab Sample ID: 300-1186-1**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	8.2	D	0.40	0.20	mg/L	2		300.0	Total/NA
Nitrate as N	1.6	D	0.056	0.028	mg/L	2		300.0	Total/NA
Fluoride	0.26	D	0.10	0.050	mg/L	2		300.0	Total/NA
Sulfate	34	D	0.50	0.25	mg/L	2		300.0	Total/NA

**Client Sample ID: B32TK5**

**Lab Sample ID: 300-1186-2**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	9.6	D	0.40	0.20	mg/L	2		300.0	Total/NA
Nitrate as N	1.8	D	0.056	0.028	mg/L	2		300.0	Total/NA
Fluoride	0.23	D	0.10	0.050	mg/L	2		300.0	Total/NA
Sulfate	39	D	0.50	0.25	mg/L	2		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Richland

October 30, 2015  
**Client Sample Results**

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

TestAmerica Job ID: 300-1186-1  
 SDG: WC0486

**Client Sample ID: B32V16**  
**Date Collected: 10/22/15 10:02**  
**Date Received: 10/22/15 13:00**

**Lab Sample ID: 300-1186-1**  
**Matrix: Water**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.2	D	0.40	0.20	mg/L			10/22/15 17:32	2
Nitrate as N	1.6	D	0.056	0.028	mg/L			10/22/15 17:32	2
Fluoride	0.26	D	0.10	0.050	mg/L			10/22/15 17:32	2
Nitrite as N	0.038	U	0.076	0.038	mg/L			10/22/15 17:32	2
Sulfate	34	D	0.50	0.25	mg/L			10/22/15 17:32	2

**Client Sample ID: B32TK5**  
**Date Collected: 10/22/15 09:19**  
**Date Received: 10/22/15 13:00**

**Lab Sample ID: 300-1186-2**  
**Matrix: Water**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.6	D	0.40	0.20	mg/L			10/22/15 18:18	2
Nitrate as N	1.8	D	0.056	0.028	mg/L			10/22/15 18:18	2
Fluoride	0.23	D	0.10	0.050	mg/L			10/22/15 18:18	2
Nitrite as N	0.038	U	0.076	0.038	mg/L			10/22/15 18:18	2
Sulfate	39	D	0.50	0.25	mg/L			10/22/15 18:18	2

October 30, 2015  
**QC Sample Results**

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

TestAmerica Job ID: 300-1186-1  
SDG: WC0486

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

**Lab Sample ID: MB 300-1603/5**  
**Matrix: Water**  
**Analysis Batch: 1603**

**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			10/22/15 15:17	1
Nitrite as N	0.019	U	0.038	0.019	mg/L			10/22/15 15:17	1

**Lab Sample ID: LCS 300-1603/6**  
**Matrix: Water**  
**Analysis Batch: 1603**

**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	2.42		mg/L		107	80 - 120
Nitrite as N	3.04	3.27		mg/L		108	80 - 120

**Lab Sample ID: 300-1182-A-6 MS**  
**Matrix: Water**  
**Analysis Batch: 1603**

**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
Nitrate as N	1.3	D	0.452	1.76	D	mg/L		109	75 - 125
Nitrite as N	0.13	D	0.609	0.711	D	mg/L		95	75 - 125

**Lab Sample ID: 300-1182-A-6 DU**  
**Matrix: Water**  
**Analysis Batch: 1603**

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

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrate as N	1.3	D	1.28	D	mg/L		0.8	20
Nitrite as N	0.13	D	0.131	D	mg/L		0.3	20

**Lab Sample ID: MB 300-1604/5**  
**Matrix: Water**  
**Analysis Batch: 1604**

**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			10/22/15 15:17	1
Fluoride	0.025	U	0.050	0.025	mg/L			10/22/15 15:17	1
Sulfate	0.13	U	0.25	0.13	mg/L			10/22/15 15:17	1

**Lab Sample ID: LCS 300-1604/6**  
**Matrix: Water**  
**Analysis Batch: 1604**

**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	16.9		mg/L		106	80 - 120
Fluoride	4.00	4.24		mg/L		106	80 - 120
Sulfate	20.0	21.3		mg/L		107	80 - 120

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

TestAmerica Job ID: 300-1186-1  
SDG: WC0486

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

Lab Sample ID: 300-1182-A-6 MS  
Matrix: Water  
Analysis Batch: 1604

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

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.
	Result	Qualifier	Added	Result	Qualifier				
Chloride	12	D	3.20	15.3	D	mg/L		107	75 - 125
Fluoride	0.32	D	0.800	1.13	D	mg/L		101	75 - 125
Sulfate	68	D	4.00	71.9	D	mg/L		97	75 - 125

Lab Sample ID: 300-1182-A-6 DU  
Matrix: Water  
Analysis Batch: 1604

Client Sample ID: Duplicate  
Prep Type: Total/NA

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	RPD	Limit
	Result	Qualifier	Result	Qualifier					
Chloride	12	D	12.0	D	mg/L		0.8	0.8	20
Fluoride	0.32	D	0.324	D	mg/L		0.4	0.4	20
Sulfate	68	D	68.5	D	mg/L		0.8	0.8	20

October 30, 2015  
QC Association Summary

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

TestAmerica Job ID: 300-1186-1  
SDG: WC0486

HPLC/IC

Analysis Batch: 1603

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
300-1182-A-6 DU	Duplicate	Total/NA	Water	300.0	
300-1182-A-6 MS	Matrix Spike	Total/NA	Water	300.0	
300-1186-1	B32V16	Total/NA	Water	300.0	
300-1186-2	B32TK5	Total/NA	Water	300.0	
LCS 300-1603/6	Lab Control Sample	Total/NA	Water	300.0	
MB 300-1603/5	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 1604

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
300-1182-A-6 DU	Duplicate	Total/NA	Water	300.0	
300-1182-A-6 MS	Matrix Spike	Total/NA	Water	300.0	
300-1186-1	B32V16	Total/NA	Water	300.0	
300-1186-2	B32TK5	Total/NA	Water	300.0	
LCS 300-1604/6	Lab Control Sample	Total/NA	Water	300.0	
MB 300-1604/5	Method Blank	Total/NA	Water	300.0	

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

TestAmerica Job ID: 300-1186-1  
 SDG: WC0486

**Client Sample ID: B32V16**  
**Date Collected: 10/22/15 10:02**  
**Date Received: 10/22/15 13:00**

**Lab Sample ID: 300-1186-1**  
**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		1603	10/22/15 17:32	CPM	TAL RCH
Total/NA	Analysis	300.0		2	10 mL		1604	10/22/15 17:32	CPM	TAL RCH

**Client Sample ID: B32TK5**  
**Date Collected: 10/22/15 09:19**  
**Date Received: 10/22/15 13:00**

**Lab Sample ID: 300-1186-2**  
**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		2	10 mL		1603	10/22/15 18:18	CPM	TAL RCH
Total/NA	Analysis	300.0		2	10 mL		1604	10/22/15 18:18	CPM	TAL RCH

**Client Sample ID: Duplicate**  
**Date Collected: 10/22/15 08:24**  
**Date Received: 10/22/15 13:00**

**Lab Sample ID: 300-1182-A-6 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		1603	10/22/15 16:17	CPM	TAL RCH
Total/NA	Analysis	300.0		2	10 mL		1604	10/22/15 16:17	CPM	TAL RCH

**Client Sample ID: Lab Control Sample**  
**Date Collected: N/A**  
**Date Received: N/A**

**Lab Sample ID: LCS 300-1603/6**  
**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		1603	10/22/15 15:32	CPM	TAL RCH

**Client Sample ID: Lab Control Sample**  
**Date Collected: N/A**  
**Date Received: N/A**

**Lab Sample ID: LCS 300-1604/6**  
**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		1604	10/22/15 15:32	CPM	TAL RCH

**Client Sample ID: Method Blank**  
**Date Collected: N/A**  
**Date Received: N/A**

**Lab Sample ID: MB 300-1603/5**  
**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		1603	10/22/15 15:17	CPM	TAL RCH

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

TestAmerica Job ID: 300-1186-1  
 SDG: WC0486

**Client Sample ID: Method Blank**

**Lab Sample ID: MB 300-1604/5**

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		1604	10/22/15 15:17	CPM	TAL RCH

**Client Sample ID: Matrix Spike**

**Lab Sample ID: 300-1182-A-6 MS**

Date Collected: 10/22/15 08:24

Matrix: Water

Date Received: 10/22/15 13:00

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		1603	10/22/15 16:02	CPM	TAL RCH
Total/NA	Analysis	300.0		2	10 mL		1604	10/22/15 16:02	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: CH2M Hill Chemical

TestAmerica Job ID: 300-1186-1  
SDG: WC0486

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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



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

TestAmerica Job ID: 300-1186-1  
SDG: WC0486

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
300-1186-1	B32V16	Water	10/22/15 10:02	10/22/15 13:00
300-1186-2	B32TK5	Water	10/22/15 09:19	10/22/15 13:00

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Login Sample Receipt Checklist

Client: CH2M Hill Plateau Remediation Company

Job Number: 300-1186-1  
SDG Number: WC0486

**Login Number: 1186**  
**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	

