

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: 300-1426-1
TestAmerica Sample Delivery Group: WC0558
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:
11/30/2015 2:54:27 PM
Steven Campbell, Quality Assurance Assistant
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Designee for
Whitney Ritari, Project Manager I
(509)375-3131 ext164
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.



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Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Chain of Custody	5
Detection Summary	7
Client Sample Results	8
QC Sample Results	9
QC Association Summary	11
Lab Chronicle	12
Method Summary	14
Sample Summary	15
Receipt Checklists	16

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
D	The reported value is from a dilution.
U	Analyzed for but not detected.
N	MS, MSD: Spike recovery is outside acceptance limits.

Glossary

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



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

TestAmerica Job ID: 300-1426-1
SDG: WC0558

Job ID: 300-1426-1

Laboratory: TestAmerica Richland

Narrative

**Job Narrative
300-1426-1**

Comments

No additional comments.

Receipt

The samples were received on 11/8/2015 10:10 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 9.3° C.

HPLC/IC

Method 300.0: The matrix spike (MS) recoveries for analytical batch 300-1902 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.

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- 7
- 8
- 9
- 10
- 11
- 12
- 13

1
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9
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11
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13

CH2MHill Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #
X15-059-012
Page 1 of 1

Collector	S.W. King/CHPRC	Contact/Requester	WHITLEY, KM	Telephone No.	373-4929
SAF No.	X15-059	Sampling Origin	HANFORD SITE	Purchase Order/Charge Code	300205
Project Title	Uranium Sequestration - Day 3	Logbook No.	HNF-N-506 81/22	Ice Chest No.	N/A
Shipped To (Lab)	TestAmerica Incorporated, Richland	Method of Shipment	GOVERNMENT VEHICLE	Bill of Lading/Air Bill No.	N/A
Protocol	CERCLA	Priority:	30 Days	Offsite Property No.	N/A
POSSIBLE SAMPLE HAZARDS/REMARKS			SPECIAL INSTRUCTIONS	Hold Time	Total Activity Exemption: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
*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.			N/A		

Sample No.	Filter	* Date	Time	No./Type Container	Sample Analysis	Holding Time	Preservative
B32XX2	N	NOV 08 2015	0915	1x500-mL P	300.0_ANIONS_IC: GW 01	48 Hours	Cool <=6C



300-1426 COC

#1426
WC0558

NOVEMBER 30, 2015

Relinquished By	S.W. King/CHPRC	Signature	<i>[Signature]</i>	Date/Time	NOV 08 2015 1010	Received By	J. Friesz, TARL	Signature	<i>[Signature]</i>	Date/Time	NOV 08 2015 1010	Matrix *
Relinquished By				Date/Time		Received By				Date/Time		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		
Relinquished By				Date/Time		Received By				Date/Time		
FINAL SAMPLE DISPOSITION Disposal Method (e.g., Return to customer, per lab procedure, used in process)												

PRINTED ON 9/16/2015

FSR ID = FSR3487

A-6004-842 (REV 2)

CH2M/Hill Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # X15-059-013
Page 1 of 1

Collector	S.W. King/CHPRC	Contact/Requester	WHITTLEBY, KM	Telephone No.	373-4929
SAF No.	X15-059	Sampling Origin	HANFORD SITE	Purchase Order/Charge Code	300205
Project Title	Uranium Sequestration - Day 3	Logbook No.	HNF-N-506 81/22	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

Sample No.	B32XY6	Filter	N	Date	NOV 08 2015	Time	0945	No./Type Container	1X500-mL P	Sample Analysis	300_0_ANIONS_JC: GW 01	Holding Time	48 Hours	Preservative	Cool <=6C
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POSSIBLE SAMPLE HAZARDS/REMARKS
*Contains Radioactive Material at concentrations that are not be regulated for transportation per 49 CFR/IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1.

SPECIAL INSTRUCTIONS
N/A
Hold Time
Total Activity Exemption: Yes No

#1426
WC0558

Relinquished By	S.W. King/CHPRC	Print	Sign	Date/Time	NOV 08 2015	1010	Received By	J. Friesz, TARI	Print	Sign	Date/Time	NOV 08 2015	1010	Matrix *
Relinquished By				Date/Time			Received By				Date/Time			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			
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

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

TestAmerica Job ID: 300-1426-1
 SDG: WC0558

Client Sample ID: B32XY2

Lab Sample ID: 300-1426-1

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	5.7	D	0.056	0.028	mg/L	2		300.0	Total/NA
Fluoride	0.37	D	0.10	0.050	mg/L	2		300.0	Total/NA
Orthophosphate as P	1.2	D N	0.16	0.082	mg/L	2		300.0	Total/NA
Sulfate	60	D	0.50	0.25	mg/L	2		300.0	Total/NA

Client Sample ID: B32XY6

Lab Sample ID: 300-1426-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	21	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	0.37	D	0.10	0.050	mg/L	2		300.0	Total/NA
Orthophosphate as P	1.3	D N	0.16	0.082	mg/L	2		300.0	Total/NA
Sulfate	58	D	0.50	0.25	mg/L	2		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: 300-1426-1
SDG: WC0558

Client Sample ID: B32XY2
Date Collected: 11/08/15 09:15
Date Received: 11/08/15 10:10

Lab Sample ID: 300-1426-1
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			11/08/15 16:22	2
Nitrate as N	5.7	D	0.056	0.028	mg/L			11/08/15 16:22	2
Fluoride	0.37	D	0.10	0.050	mg/L			11/08/15 16:22	2
Nitrite as N	0.038	U	0.076	0.038	mg/L			11/08/15 16:22	2
Orthophosphate as P	1.2	D N	0.16	0.082	mg/L			11/08/15 16:22	2
Sulfate	60	D	0.50	0.25	mg/L			11/08/15 16:22	2

Client Sample ID: B32XY6
Date Collected: 11/08/15 09:45
Date Received: 11/08/15 10:10

Lab Sample ID: 300-1426-2
Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	21	D	0.40	0.20	mg/L			11/08/15 17:07	2
Nitrate as N	5.5	D	0.056	0.028	mg/L			11/08/15 17:07	2
Fluoride	0.37	D	0.10	0.050	mg/L			11/08/15 17:07	2
Nitrite as N	0.038	U	0.076	0.038	mg/L			11/08/15 17:07	2
Orthophosphate as P	1.3	D N	0.16	0.082	mg/L			11/08/15 17:07	2
Sulfate	58	D	0.50	0.25	mg/L			11/08/15 17:07	2

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

TestAmerica Job ID: 300-1426-1
SDG: WC0558

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 300-1902/5
Matrix: Water
Analysis Batch: 1902

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			11/08/15 15:37	1
Nitrite as N	0.019	U	0.038	0.019	mg/L			11/08/15 15:37	1
Orthophosphate as P	0.041	U	0.082	0.041	mg/L			11/08/15 15:37	1

Lab Sample ID: LCS 300-1902/6
Matrix: Water
Analysis Batch: 1902

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	2.36		mg/L		105	80 - 120
Nitrite as N	3.04	3.22		mg/L		106	80 - 120
Orthophosphate as P	6.53	6.61		mg/L		101	80 - 120

Lab Sample ID: 300-1426-1 MS
Matrix: Water
Analysis Batch: 1902

Client Sample ID: B32XY2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	5.7	D	0.452	6.15	D	mg/L		98	75 - 125
Nitrite as N	0.038	U	0.609	0.574	D	mg/L		94	75 - 125
Orthophosphate as P	1.2	D N	1.31	1.44	D N	mg/L		18	75 - 125

Lab Sample ID: 300-1426-1 DU
Matrix: Water
Analysis Batch: 1902

Client Sample ID: B32XY2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Nitrate as N	5.7	D	5.70	D	mg/L		0.2	20
Nitrite as N	0.038	U	0.038	U	mg/L		NC	20
Orthophosphate as P	1.2	D N	1.20	D	mg/L		0	20

Lab Sample ID: MB 300-1903/5
Matrix: Water
Analysis Batch: 1903

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			11/08/15 15:37	1
Fluoride	0.025	U	0.050	0.025	mg/L			11/08/15 15:37	1
Sulfate	0.13	U	0.25	0.13	mg/L			11/08/15 15:37	1

Lab Sample ID: LCS 300-1903/6
Matrix: Water
Analysis Batch: 1903

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	16.0	16.6		mg/L		104	80 - 120
Fluoride	4.00	4.16		mg/L		104	80 - 120
Sulfate	20.0	20.7		mg/L		104	80 - 120

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

TestAmerica Job ID: 300-1426-1
SDG: WC0558

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 300-1426-1 MS
Matrix: Water
Analysis Batch: 1903

Client Sample ID: B32XY2
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	23.6	D	mg/L		103	75 - 125
Fluoride	0.37	D	0.800	1.17	D	mg/L		101	75 - 125
Sulfate	60	D	4.00	63.7	D	mg/L		101	75 - 125

Lab Sample ID: 300-1426-1 DU
Matrix: Water
Analysis Batch: 1903

Client Sample ID: B32XY2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chloride	20	D	20.3	D	mg/L		0.2	20
Fluoride	0.37	D	0.368	D	mg/L		0.3	20
Sulfate	60	D	59.7	D	mg/L		0.1	20

NOVEMBER 30, 2015
QC Association Summary

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

TestAmerica Job ID: 300-1426-1
SDG: WC0558

HPLC/IC

Analysis Batch: 1902

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
300-1426-1	B32XY2	Total/NA	Water	300.0	
300-1426-1 DU	B32XY2	Total/NA	Water	300.0	
300-1426-1 MS	B32XY2	Total/NA	Water	300.0	
300-1426-2	B32XY6	Total/NA	Water	300.0	
LCS 300-1902/6	Lab Control Sample	Total/NA	Water	300.0	
MB 300-1902/5	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 1903

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
300-1426-1	B32XY2	Total/NA	Water	300.0	
300-1426-1 DU	B32XY2	Total/NA	Water	300.0	
300-1426-1 MS	B32XY2	Total/NA	Water	300.0	
300-1426-2	B32XY6	Total/NA	Water	300.0	
LCS 300-1903/6	Lab Control Sample	Total/NA	Water	300.0	
MB 300-1903/5	Method Blank	Total/NA	Water	300.0	

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

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

TestAmerica Job ID: 300-1426-1
SDG: WC0558

Client Sample ID: B32XY2
Date Collected: 11/08/15 09:15
Date Received: 11/08/15 10:10

Lab Sample ID: 300-1426-1
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		1902	11/08/15 16:22	CPM	TAL RCH
Total/NA	Analysis	300.0		2	10 mL		1903	11/08/15 16:22	CPM	TAL RCH

Client Sample ID: B32XY6
Date Collected: 11/08/15 09:45
Date Received: 11/08/15 10:10

Lab Sample ID: 300-1426-2
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		1902	11/08/15 17:07	CPM	TAL RCH
Total/NA	Analysis	300.0		2	10 mL		1903	11/08/15 17:07	CPM	TAL RCH

Client Sample ID: B32XY2
Date Collected: 11/08/15 09:15
Date Received: 11/08/15 10:10

Lab Sample ID: 300-1426-1 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		1902	11/08/15 16:52	CPM	TAL RCH
Total/NA	Analysis	300.0		2	10 mL		1903	11/08/15 16:52	CPM	TAL RCH

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

Lab Sample ID: LCS 300-1902/6
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		1902	11/08/15 15:52	CPM	TAL RCH

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

Lab Sample ID: LCS 300-1903/6
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		1903	11/08/15 15:52	CPM	TAL RCH

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

Lab Sample ID: MB 300-1902/5
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		1902	11/08/15 15:37	CPM	TAL RCH

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

TestAmerica Job ID: 300-1426-1
SDG: WC0558

Client Sample ID: Method Blank

Lab Sample ID: MB 300-1903/5

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		1903	11/08/15 15:37	CPM	TAL RCH

Client Sample ID: B32XY2

Lab Sample ID: 300-1426-1 MS

Date Collected: 11/08/15 09:15

Matrix: Water

Date Received: 11/08/15 10:10

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		1902	11/08/15 16:37	CPM	TAL RCH
Total/NA	Analysis	300.0		2	10 mL		1903	11/08/15 16:37	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: 300-1426-1
SDG: WC0558

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

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: 300-1426-1
SDG: WC0558

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
300-1426-1	B32XY2	Water	11/08/15 09:15	11/08/15 10:10
300-1426-2	B32XY6	Water	11/08/15 09:45	11/08/15 10:10

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

Login Sample Receipt Checklist

Client: CH2M Hill Plateau Remediation Company

Job Number: 300-1426-1

SDG Number: WC0558

Login Number: 1426

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	

