

April 13, 2016

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: 300-2689-1

TestAmerica Sample Delivery Group: WC0946

Client Project/Site: S16-003

For:

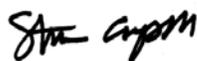
CH2M Hill Plateau Remediation Company

PO BOX 1600

Mail Stop R3-50

Richland, Washington 99352

Attn: CPP Sample Management



Authorized for release by:

4/13/2016 8:45:27 AM

Steven Campbell, Quality Assurance Assistant

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Designee for

Whitney Ritari, Project Manager I

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LINKS

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www.testamericainc.com

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

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



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

Definitions/Glossary

Client: CH2M Hill Plateau Remediation Company
 Project/Site: S16-003

TestAmerica Job ID: 300-2689-1
 SDG: WC0946

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)



Case Narrative

Client: CH2M Hill Plateau Remediation Company
Project/Site: S16-003

TestAmerica Job ID: 300-2689-1
SDG: WC0946

Job ID: 300-2689-1

Laboratory: TestAmerica Richland

Narrative

Job Narrative
300-2689-1

Comments

No additional comments.

Receipt

The samples were received on 3/29/2016 3:00 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 11.4° C.

HPLC/IC

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



CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #
S16-003-297
Page 1 of 1

Collector	Scott King CHPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650
SAF No.	S16-003	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071
Project Title	SURV, MARCH 2016	Logbook No.	HNF-N-506 <u>85/29</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 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
B34FM7	N	MAR 29 2016	145	1x500-mL P	300.0_ANIONS_IC: COMMON	48 Hours	Cool <=6C

21689
W 009416

300-2689 CO



Relinquished By	Scott King CHPRC	Sign	<i>[Signature]</i>	Date/Time	MAR 29 2016	1440	Received By	Frank Hart CHPRC	Sign	<i>[Signature]</i>	Date/Time	MAR 29 2016	1240	Matrix *
Relinquished By	Frank Hart CHPRC	Sign	<i>[Signature]</i>	Date/Time	MAR 29 2016	1500	Received By	J. Bock, TARL	Sign	<i>[Signature]</i>	Date/Time	MAR 29 2016	1500	S = Soil
Relinquished By		Sign		Date/Time			Received By		Sign		Date/Time		SE = Sediment	
Relinquished By		Sign		Date/Time			Received By		Sign		Date/Time		SO = Solid	
Relinquished By		Sign		Date/Time			Received By		Sign		Date/Time		SL = Sludge	
Relinquished By		Sign		Date/Time			Received By		Sign		Date/Time		W = Water	
Relinquished By		Sign		Date/Time			Received By		Sign		Date/Time		Oil = Oil	
Relinquished By		Sign		Date/Time			Received By		Sign		Date/Time		A = Air	
Relinquished By		Sign		Date/Time			Received By		Sign		Date/Time		DS = Drumm Solids	
Relinquished By		Sign		Date/Time			Received By		Sign		Date/Time		DLL = Drumm Liquids	
Relinquished By		Sign		Date/Time			Received By		Sign		Date/Time		T = Tissue	
Relinquished By		Sign		Date/Time			Received By		Sign		Date/Time		WT = Wipe	
Relinquished By		Sign		Date/Time			Received By		Sign		Date/Time		L = Liquid	
Relinquished By		Sign		Date/Time			Received By		Sign		Date/Time		V = Vegetation	
Relinquished By		Sign		Date/Time			Received By		Sign		Date/Time		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. #
S16-003-299
Page 1 of 1

Collector	Scott King CHPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	509-376-4650
SAF No.	S16-003	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071
Project Title	SURV, MARCH 2016	Logbook No.	HNF-N-506 <i>SB/29</i>	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			N/A		

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B34FM9	N	W	MAR 29 2016	1:00	1x500-mL P	300.0_ANIONS_IC: COMMON	48 Hours	Cool <=6C

Handwritten: \$ 21689
W320946

Relinquished By	Scott King CHPRC	Print	Sign	Date/Time	MAR 29 2016	Received By	Frank Hall CHPRC	Print	Sign	Date/Time	MAR 29 2016
Relinquished By	Frank Hall CHPRC	Print	Sign	Date/Time	MAR 29 2016	Received By	J. Bock, TARL	Print	Sign	Date/Time	MAR 29 2016
Relinquished By				Date/Time		Received By				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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Detection Summary

Client: CH2M Hill Plateau Remediation Company
 Project/Site: S16-003

TestAmerica Job ID: 300-2689-1
 SDG: WC0946

Client Sample ID: B34FM7

Lab Sample ID: 300-2689-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	18	D	0.40	0.20	mg/L	2		300.0	Total/NA
Nitrate as N	7.3	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
Sulfate	64	D	0.50	0.25	mg/L	2		300.0	Total/NA

Client Sample ID: B34FM9

Lab Sample ID: 300-2689-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	81	D	2.0	1.0	mg/L	10		300.0	Total/NA
Fluoride	9.2	D	0.10	0.050	mg/L	2		300.0	Total/NA

This Detection Summary does not include radiochemical test results.



Client Sample Results

Client: CH2M Hill Plateau Remediation Company
 Project/Site: S16-003

TestAmerica Job ID: 300-2689-1
 SDG: WC0946

Client Sample ID: B34FM7

Lab Sample ID: 300-2689-1

Date Collected: 03/29/16 11:45

Matrix: Water

Date Received: 03/29/16 15:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	18	D	0.40	0.20	mg/L			03/29/16 18:24	2
Nitrate as N	7.3	D	0.056	0.028	mg/L			03/29/16 18:24	2
Fluoride	0.31	D	0.10	0.050	mg/L			03/29/16 18:24	2
Nitrite as N	0.038	U D	0.076	0.038	mg/L			03/29/16 18:24	2
Sulfate	64	D	0.50	0.25	mg/L			03/29/16 18:24	2

Client Sample ID: B34FM9

Lab Sample ID: 300-2689-2

Date Collected: 03/29/16 11:00

Matrix: Water

Date Received: 03/29/16 15:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	81	D	2.0	1.0	mg/L			03/29/16 19:54	10
Nitrate as N	0.028	U D	0.056	0.028	mg/L			03/29/16 18:39	2
Fluoride	9.2	D	0.10	0.050	mg/L			03/29/16 18:39	2
Nitrite as N	0.038	U D	0.076	0.038	mg/L			03/29/16 18:39	2
Sulfate	0.25	U D	0.50	0.25	mg/L			03/29/16 18:39	2

QC Sample Results

Client: CH2M Hill Plateau Remediation Company
Project/Site: S16-003

TestAmerica Job ID: 300-2689-1
SDG: WC0946

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 300-3548/5
Matrix: Water
Analysis Batch: 3548

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			03/29/16 11:42	1
Nitrite as N	0.019	U	0.038	0.019	mg/L			03/29/16 11:42	1

Lab Sample ID: LCS 300-3548/6
Matrix: Water
Analysis Batch: 3548

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		104	80 - 120
Nitrite as N	3.04	3.19		mg/L		105	80 - 120

Lab Sample ID: 300-2688-A-2 MS
Matrix: Water
Analysis Batch: 3548

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	3.5	D	0.452	3.98	D	mg/L		100	75 - 125
Nitrite as N	0.038	U D	0.609	0.552	D	mg/L		91	75 - 125

Lab Sample ID: 300-2688-A-2 DU
Matrix: Water
Analysis Batch: 3548

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	3.5	D	3.51	D	mg/L		0.6	20
Nitrite as N	0.038	U D	0.038	U D	mg/L		NC	20

Lab Sample ID: MB 300-3549/5
Matrix: Water
Analysis Batch: 3549

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			03/29/16 11:42	1
Fluoride	0.025	U	0.050	0.025	mg/L			03/29/16 11:42	1
Sulfate	0.13	U	0.25	0.13	mg/L			03/29/16 11:42	1

Lab Sample ID: LCS 300-3549/6
Matrix: Water
Analysis Batch: 3549

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	16.5		mg/L		103	80 - 120
Fluoride	4.00	4.15		mg/L		104	80 - 120
Sulfate	20.0	20.7		mg/L		104	80 - 120

QC Sample Results

Client: CH2M Hill Plateau Remediation Company
 Project/Site: S16-003

TestAmerica Job ID: 300-2689-1
 SDG: WC0946

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 300-2688-A-2 MS

Matrix: Water

Analysis Batch: 3549

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	Limits
	Result	Qualifier		Result	Qualifier					
Chloride	7.0	D	3.20	10.2	D	mg/L		101	75 - 125	
Fluoride	0.38	D	0.800	1.17	D	mg/L		98	75 - 125	
Sulfate	25	D	4.00	28.8	D	mg/L		102	75 - 125	

Lab Sample ID: 300-2688-A-2 DU

Matrix: Water

Analysis Batch: 3549

Client Sample ID: Duplicate

Prep Type: Total/NA

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	RPD	Limit
	Result	Qualifier	Result	Qualifier					
Chloride	7.0	D	6.91	D	mg/L		0.7	20	
Fluoride	0.38	D	0.377	D	mg/L		0	20	
Sulfate	25	D	24.7	D	mg/L		0.3	20	

QC Association Summary

Client: CH2M Hill Plateau Remediation Company
 Project/Site: S16-003

TestAmerica Job ID: 300-2689-1
 SDG: WC0946

HPLC/IC

Analysis Batch: 3548

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
300-2688-A-2 DU	Duplicate	Total/NA	Water	300.0	
300-2688-A-2 MS	Matrix Spike	Total/NA	Water	300.0	
300-2689-1	B34FM7	Total/NA	Water	300.0	
300-2689-2	B34FM9	Total/NA	Water	300.0	
LCS 300-3548/6	Lab Control Sample	Total/NA	Water	300.0	
MB 300-3548/5	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 3549

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
300-2688-A-2 DU	Duplicate	Total/NA	Water	300.0	
300-2688-A-2 MS	Matrix Spike	Total/NA	Water	300.0	
300-2689-1	B34FM7	Total/NA	Water	300.0	
300-2689-2	B34FM9	Total/NA	Water	300.0	
300-2689-2	B34FM9	Total/NA	Water	300.0	
LCS 300-3549/6	Lab Control Sample	Total/NA	Water	300.0	
MB 300-3549/5	Method Blank	Total/NA	Water	300.0	

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Lab Chronicle

Client: CH2M Hill Plateau Remediation Company
 Project/Site: S16-003

TestAmerica Job ID: 300-2689-1
 SDG: WC0946

Client Sample ID: B34FM7

Lab Sample ID: 300-2689-1

Date Collected: 03/29/16 11:45

Matrix: Water

Date Received: 03/29/16 15:00

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		3548	03/29/16 18:24	CPM	TAL RCH
Total/NA	Analysis	300.0		2	10 mL		3549	03/29/16 18:24	CPM	TAL RCH

Client Sample ID: B34FM9

Lab Sample ID: 300-2689-2

Date Collected: 03/29/16 11:00

Matrix: Water

Date Received: 03/29/16 15:00

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		3548	03/29/16 18:39	CPM	TAL RCH
Total/NA	Analysis	300.0		2	10 mL		3549	03/29/16 18:39	CPM	TAL RCH
Total/NA	Analysis	300.0		10	10 mL		3549	03/29/16 19:54	CPM	TAL RCH

Client Sample ID: Duplicate

Lab Sample ID: 300-2688-A-2 DU

Date Collected: 03/29/16 09:46

Matrix: Water

Date Received: 03/29/16 15:00

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		3548	03/29/16 18:08	CPM	TAL RCH
Total/NA	Analysis	300.0		2	10 mL		3549	03/29/16 18:08	CPM	TAL RCH

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 300-3548/6

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		3548	03/29/16 11:57	CPM	TAL RCH

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 300-3549/6

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		3549	03/29/16 11:57	CPM	TAL RCH

Client Sample ID: Method Blank

Lab Sample ID: MB 300-3548/5

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		3548	03/29/16 11:42	CPM	TAL RCH

Lab Chronicle

Client: CH2M Hill Plateau Remediation Company
 Project/Site: S16-003

TestAmerica Job ID: 300-2689-1
 SDG: WC0946

Client Sample ID: Method Blank

Lab Sample ID: MB 300-3549/5

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		3549	03/29/16 11:42	CPM	TAL RCH

Client Sample ID: Matrix Spike

Lab Sample ID: 300-2688-A-2 MS

Date Collected: 03/29/16 09:46

Matrix: Water

Date Received: 03/29/16 15:00

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		3548	03/29/16 17:53	CPM	TAL RCH
Total/NA	Analysis	300.0		2	10 mL		3549	03/29/16 17:53	CPM	TAL RCH

Laboratory References:

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

Method Summary

Client: CH2M Hill Plateau Remediation Company
Project/Site: S16-003

TestAmerica Job ID: 300-2689-1
SDG: WC0946

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



Sample Summary

Client: CH2M Hill Plateau Remediation Company
Project/Site: S16-003

TestAmerica Job ID: 300-2689-1
SDG: WC0946

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
300-2689-1	B34FM7	Water	03/29/16 11:45	03/29/16 15:00
300-2689-2	B34FM9	Water	03/29/16 11:00	03/29/16 15:00

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Login Sample Receipt Checklist

Client: CH2M Hill Plateau Remediation Company

Job Number: 300-2689-1

SDG Number: WC0946

Login Number: 2689

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.	N/A	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	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	

