

7/15/2016

# 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: 300-3353-1  
TestAmerica Sample Delivery Group: WC1201  
Client Project/Site: F16-020

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

Attn: CPP Sample Management



Authorized for release by:  
7/15/2016 8:35:21 AM  
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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 less than five times the MDL.*



### LINKS

Review your project results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://www.testamericainc.com)

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## Definitions/Glossary

Client: CH2M Hill Plateau Remediation Company  
Project/Site: F16-020

TestAmerica Job ID: 300-3353-1  
SDG: WC1201

## Qualifiers

### General Chemistry

Qualifier	Qualifier Description
B	Estimated result. Result is less than the RL, but greater than MDL
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.
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)

# Case Narrative

Client: CH2M Hill Plateau Remediation Company  
Project/Site: F16-020

TestAmerica Job ID: 300-3353-1  
SDG: WC1201

**Job ID: 300-3353-1**

**Laboratory: TestAmerica Richland**

## Narrative

**Job Narrative  
300-3353-1**

### Comments

This job is associated to SDG W07525 for rad analysis.

### Receipt

The samples were received on 6/24/2016 12:55 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 6.9° C.

### General Chemistry

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

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CH2M Hill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		F16-020-1201	PAGE 1 OF 1
COLLECTOR <i>Anthony James</i>	COMPANY CONTACT TODAK, D	TELEPHONE NO. 376-6427	PROJECT COORDINATOR TODAK, D	PRICE CODE 8H	DATA TURNAROUND 30 Days / 30 Days
SAMPLING LOCATION C9487, Core 11, B34W85	PROJECT DESIGNATION 200-DV-1 Operable Unit Characterization of Waste Sites Phase 3 Sampling	FIELD LOGBOOK NO. N/A	SAF NO. F16-020	AIR QUALITY <input type="checkbox"/>	METHOD OF SHIPMENT GOVERNMENT VEHICLE
ICE CHEST NO. N/A	OFFSITE PROPERTY NO. N/A	ACTUAL SAMPLE DEPTH <i>88'-91.7'</i>	COA 302632	BILL OF LADING/AIR BILL NO. N/A	
SHIPPED TO TestAmerica Incorporated, Richland	PREPARATION Cool <=6C	HOLDING TIME 30 Days	NO. OF CONTAINER(S) 1	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
MATRIX* A=Air DL=Drum Liquids DS=Drum Solids L=Liquid O=Oil S=Soil SF=Sediment T=Tissue V=Vegetation W=Water WT=Wipe X=Other	NO. OF CONTAINER(S) 1	TYPE OF CONTAINER G/P	VOLUME 60ml	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SPECIAL HANDLING AND/OR STORAGE	SAMPLE ANALYSIS	SEE ITEM (*) IN SPECIAL INSTRUCTIONS	500ml	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SAMPLE NO. B36217	MATRIX* SOIL	SAMPLE DATE 4/24/14	SAMPLE TIME 1130	METHOD OF SHIPMENT GOVERNMENT VEHICLE	

#3353  
WSC1201

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	RECEIVED BY	DATE/TIME	STORAGE	DATE/TIME
B36217	SOIL	4/24/14	1130	J. BOCK	4/24/14	7196 CRG- COMMON;	X

300-3353 COC



CHAIN OF POSSESSION SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
<i>Anthony James</i>	1255	J. BOCK	4/24/14
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS

(1) GAMMA\_GS: COMMON; AMCMISO\_EIE\_PLATE\_AEA: COMMON;  
 PUISO\_PLATE\_AEA: COMMON {Plutonium-238, Plutonium-239/240};  
 UISO\_PLATE\_AEA: COMMON {Uranium-233/234, Uranium-235, Uranium-238};  
 C14\_LSC: COMMON; I129\_SEP\_LEPS\_GS: COMMON; NI63\_LSC:  
 COMMON; NP237\_LLE\_PLATE\_AEA: COMMON;  
 SRTOT\_SEP\_PRECIP\_GPC: COMMON {Total beta radiostrontium};  
 TC99\_ETVDSK\_LSC: COMMON; TRITIUM\_DIST\_LSC: COMMON;

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

<b>COLLECTOR</b> Antonio Jaimas		<b>COMPANY CONTACT</b> TODAK, D	<b>TELEPHONE NO.</b> 376-6427	<b>PROJECT COORDINATOR</b> TODAK, D	<b>PRICE CODE</b> 8H	<b>DATA TURNAROUND</b> 30 Days / 30 Days
<b>SAMPLING LOCATION</b> C9487, Core 4, B34W71		<b>PROJECT DESIGNATION</b> 200-DV-1 Operable Unit Characterization of Waste Sites Phase 3 Sampling		<b>SAF NO.</b> F16-020	<b>AIR QUALITY</b> <input type="checkbox"/>	<b>METHOD OF SHIPMENT</b> GOVERNMENT VEHICLE
<b>ICE CHEST NO.</b> NA		<b>FIELD LOGBOOK NO.</b> NA	<b>ACTUAL SAMPLE DEPTH</b> 45.0 - 47.0	<b>COA JR 4/24/14</b> NA 302132	<b>ORIGINAL</b>	
<b>SHIPPED TO</b> TestAmerica Incorporated, Richland		<b>OFFSITE PROPERTY NO.</b> NA		<b>BILL OF LADING/AIR BILL NO.</b> NA		

# 3353  
NFC 1201

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	PRESERVATION		HOLDING TIME		TYPE OF CONTAINER	NO. OF CONTAINER(S)	VOLUME	SPECIAL HANDLING AND/OR STORAGE
				Code <=6C	None	30 Days	6 Months				
B362J5	SOIL	6/24/16	1015	X				G/P	1	60ml	
								G/P	1	500ml	

**MATRIX\***  
A=Air  
DL=Drum  
Liquids  
DS=Drum  
Solids  
L=Liquid  
O=Oil  
S=Soil  
SF=Sediment  
T=Tissue  
V=Vegetation  
W=Water  
WI=Wipe  
X=Other

**POSSIBLE SAMPLE HAZARDS/ REMARKS**  
\*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. NA

**CHAIN OF POSSESSION**

**SIGN / PRINT NAMES**

**SPECIAL INSTRUCTIONS**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Jan Russell, Jan Russell, Wylie Lass	1/25	Book, Book, TARR, W-24-10/1255	1/25
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

(1) GAMMA\_GS: COMMON; AMCMISO\_EIE\_PLATE\_AEA: COMMON; PUISO\_PLATE\_AEA: COMMON {Plutonium-238, Plutonium-239/240}; UISO\_PLATE\_AEA: COMMON {Uranium-233/234, Uranium-235, Uranium-238}; C14\_LSC: COMMON; I129\_SEP\_LEPS\_GS: COMMON; NI63\_LSC: COMMON; NP237\_LLE\_PLATE\_AEA: COMMON; SRTOT\_SEP\_PRECIP\_GPC: COMMON {Total beta radiostrontium}; TC99\_ETVDSK\_LSC: COMMON; TRITIUM\_DIST\_LSC: COMMON;

<b>LABORATORY SECTION</b>	RECEIVED BY	TITLE	DATE/TIME
<b>FINAL SAMPLE DISPOSITION</b>	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

PRINTED ON 6/22/2016 FSR ID = FSR33535 TRVL NUM = TRVL-16-183 A-6003-618 (REV 2)

### Detection Summary

Client: CH2M Hill Plateau Remediation Company  
Project/Site: F16-020

TestAmerica Job ID: 300-3353-1  
SDG: WC1201

**Client Sample ID: B362J7**

**Lab Sample ID: 300-3353-1**

No Detections.

**Client Sample ID: B362J5**

**Lab Sample ID: 300-3353-2**

No Detections.

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This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: CH2M Hill Plateau Remediation Company  
 Project/Site: F16-020

TestAmerica Job ID: 300-3353-1  
 SDG: WC1201

Client Sample ID: B362J7

Lab Sample ID: 300-3353-1

Date Collected: 06/24/16 11:30

Matrix: Soil

Date Received: 06/24/16 12:55

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.15	U	2.0	0.15	mg/Kg		07/07/16 08:25	07/07/16 14:32	1

Client Sample ID: B362J5

Lab Sample ID: 300-3353-2

Date Collected: 06/24/16 10:15

Matrix: Soil

Date Received: 06/24/16 12:55

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.15	U	2.0	0.15	mg/Kg		07/07/16 08:25	07/07/16 14:45	1

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QC Sample Results

Client: CH2M Hill Plateau Remediation Company  
Project/Site: F16-020

TestAmerica Job ID: 300-3353-1  
SDG: WC1201

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 300-4801/1-A  
Matrix: Solid  
Analysis Batch: 4832

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 4801

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.15	U	2.0	0.15	mg/Kg		07/07/16 08:25	07/07/16 11:01	1

Lab Sample ID: LCS 300-4801/2-A  
Matrix: Solid  
Analysis Batch: 4832

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 4801

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cr (VI)	20.0	19.94		mg/Kg		100	85 - 115

Lab Sample ID: 300-3322-A-1-B MS  
Matrix: Solid  
Analysis Batch: 4832

Client Sample ID: Matrix Spike  
Prep Type: Total/NA  
Prep Batch: 4801

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cr (VI)	0.59	B	29.9	28.55		mg/Kg		93	75 - 125

Lab Sample ID: 300-3322-A-1-D MSI  
Matrix: Solid  
Analysis Batch: 4832

Client Sample ID: Matrix Spike  
Prep Type: Total/NA  
Prep Batch: 4801

Analyte	Sample Result	Sample Qualifier	Spike Added	MSI Result	MSI Qualifier	Unit	D	%Rec	%Rec. Limits
Cr (VI)	0.59	B	630	599.2	D	mg/Kg		95	

Lab Sample ID: 300-3322-A-1-C DU  
Matrix: Solid  
Analysis Batch: 4832

Client Sample ID: Duplicate  
Prep Type: Total/NA  
Prep Batch: 4801

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Cr (VI)	0.59	B	0.612	B	mg/Kg			35

## QC Association Summary

Client: CH2M Hill Plateau Remediation Company  
Project/Site: F16-020

TestAmerica Job ID: 300-3353-1  
SDG: WC1201

## General Chemistry

## Prep Batch: 4801

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
300-3322-A-1-B MS	Matrix Spike	Total/NA	Solid	3060A	
300-3322-A-1-C DU	Duplicate	Total/NA	Solid	3060A	
300-3322-A-1-D MSI	Matrix Spike	Total/NA	Solid	3060A	
300-3353-1	B362J7	Total/NA	Soil	3060A	
300-3353-2	B362J5	Total/NA	Soil	3060A	
LCS 300-4801/2-A	Lab Control Sample	Total/NA	Solid	3060A	
MB 300-4801/1-A	Method Blank	Total/NA	Solid	3060A	

## Analysis Batch: 4832

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
300-3322-A-1-B MS	Matrix Spike	Total/NA	Solid	7196A	4801
300-3322-A-1-C DU	Duplicate	Total/NA	Solid	7196A	4801
300-3322-A-1-D MSI	Matrix Spike	Total/NA	Solid	7196A	4801
300-3353-1	B362J7	Total/NA	Soil	7196A	4801
300-3353-2	B362J5	Total/NA	Soil	7196A	4801
LCS 300-4801/2-A	Lab Control Sample	Total/NA	Solid	7196A	4801
MB 300-4801/1-A	Method Blank	Total/NA	Solid	7196A	4801

## Lab Chronicle

Client: CH2M Hill Plateau Remediation Company  
Project/Site: F16-020

TestAmerica Job ID: 300-3353-1  
SDG: WC1201

**Client Sample ID: B362J7**

Date Collected: 06/24/16 11:30

Date Received: 06/24/16 12:55

**Lab Sample ID: 300-3353-1**

Matrix: Soil

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3060A			2.5015 g	100 mL	4801	07/07/16 08:25	HR	TAL RCH
Total/NA	Analysis	7196A		1	2.5015 g	100 mL	4832	07/07/16 14:32	HR	TAL RCH

**Client Sample ID: B362J5**

Date Collected: 06/24/16 10:15

Date Received: 06/24/16 12:55

**Lab Sample ID: 300-3353-2**

Matrix: Soil

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3060A			2.5091 g	100 mL	4801	07/07/16 08:25	HR	TAL RCH
Total/NA	Analysis	7196A		1	2.5091 g	100 mL	4832	07/07/16 14:45	HR	TAL RCH

**Client Sample ID: Duplicate**

Date Collected: 06/21/16 09:30

Date Received: 06/21/16 15:50

**Lab Sample ID: 300-3322-A-1-C DU**

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3060A			2.5024 g	100 mL	4801	07/07/16 08:25	HR	TAL RCH
Total/NA	Analysis	7196A		1	2.5024 g	100 mL	4832	07/07/16 11:54	HR	TAL RCH

**Client Sample ID: Lab Control Sample**

Date Collected: N/A

Date Received: N/A

**Lab Sample ID: LCS 300-4801/2-A**

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3060A			2.5 g	100 mL	4801	07/07/16 08:25	HR	TAL RCH
Total/NA	Analysis	7196A		1	2.5 g	100 mL	4832	07/07/16 11:15	HR	TAL RCH

**Client Sample ID: Method Blank**

Date Collected: N/A

Date Received: N/A

**Lab Sample ID: MB 300-4801/1-A**

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3060A			2.5 g	100 mL	4801	07/07/16 08:25	HR	TAL RCH
Total/NA	Analysis	7196A		1	2.5 g	100 mL	4832	07/07/16 11:01	HR	TAL RCH

**Client Sample ID: Matrix Spike**

Date Collected: 06/21/16 09:30

Date Received: 06/21/16 15:50

**Lab Sample ID: 300-3322-A-1-B MS**

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3060A			2.5043 g	100 mL	4801	07/07/16 08:25	HR	TAL RCH
Total/NA	Analysis	7196A		1	2.5043 g	100 mL	4832	07/07/16 11:41	HR	TAL RCH

TestAmerica Richland

Lab Chronicle

Client: CH2M Hill Plateau Remediation Company  
 Project/Site: F16-020

TestAmerica Job ID: 300-3353-1  
 SDG: WC1201

Client Sample ID: Matrix Spike

Lab Sample ID: 300-3322-A-1-D MSI

Date Collected: 06/21/16 09:30

Matrix: Solid

Date Received: 06/21/16 15:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3060A			2.5023 g	100 mL	4801	07/07/16 08:25	HR	TAL RCH
Total/NA	Analysis	7196A		20	2.5023 g	100 mL	4832	07/07/16 12:07	HR	TAL RCH

Laboratory References:

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

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### Method Summary

Client: CH2M Hill Plateau Remediation Company  
Project/Site: F16-020

TestAmerica Job ID: 300-3353-1  
SDG: WC1201

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Method	Method Description	Protocol	Laboratory
7196A	Chromium, Hexavalent	SW846	TAL RCH

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**Protocol References:**

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

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



7/15/2016

### Sample Summary

Client: CH2M Hill Plateau Remediation Company  
Project/Site: F16-020

TestAmerica Job ID: 300-3353-1  
SDG: WC1201

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
300-3353-1	B362J7	Soil	06/24/16 11:30	06/24/16 12:55
300-3353-2	B362J5	Soil	06/24/16 10:15	06/24/16 12:55

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## Login Sample Receipt Checklist

Client: CH2M Hill Plateau Remediation Company

Job Number: 300-3353-1

SDG Number: WC1201

Login Number: 3353

List Number: 1

Creator: Anderson, Lori F

List Source: TestAmerica Richland

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ 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 $<6\text{mm}$ (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	