PREPARED FOR

Attn: Terri Choy AECOM 1001 Bishop Street Honolulu, Hawaii 96813

Generated 6/13/2023 11:33:44 AM

JOB DESCRIPTION

Red Hill - AFFF Assessment Sampling

ANALYTICAL REPORT

JOB NUMBER

580-127963-1

Eurofins Seattle 5755 8th Street East Tacoma WA 98424

Eurofins Seattle

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northwest, LLC Project Manager.

Authorization

M. Elaine Walker

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Authorized for release by Marie Walker, Senior Project Manager M.Elaine.Walker@et.eurofinsus.com (253)248-4972

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Client: AECOM

Project/Site: Red Hill - AFFF Assessment Sampling

Laboratory Job ID: 580-127963-1

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Case Narrative

Client: AECOM Job ID: 580-127963-1

Project/Site: Red Hill - AFFF Assessment Sampling

Job ID: 580-127963-1

Laboratory: Eurofins Seattle

Narrative

CASE NARRATIVE

Client: AECOM
Project: Red Hill - AFFF Assessment Sampling
Report Number: 580-127963-1

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) resulting from a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are an unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes within the calibration range of the instrument or that reduces the interferences thereby enabling the quantification of target analytes.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

Five samples were received on 6/6/2023 4:30 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 4.0° C.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

GLYCOLS

Samples AF-RHMW04-WGN01LF-2305W5 (580-127963-1), AF-RHMW06-WGN01LF-2305W5 (580-127963-2), AF-RHMW12A-WGN01LF-2305W5 (580-127963-3), AF-RHMW12A-WGFD01LF-2305W5 (580-127963-4) and AF-RHMW16-WGN01LF-2305W5 (580-127963-5) were analyzed for glycols in accordance with EPA SW-846 Method 8015B - DAI. The samples were analyzed on 06/07/2023 and 06/08/2023.

2-(2-Butoxyethoxy)ethanol failed the recovery criteria high for the MSD of sample AF-RHMW04-WGN01LF-2305W5MSD (580-127963-1) in batch 680-782368. 2-(2-Butoxyethoxy)ethanol exceeded the RPD limit. The MS and associated LCS/LCSD were in control.

Internal standard (ISTD) response for the following sample was outside of acceptance limits due to being spiked twice by mistake: AF-RHMW04-WGN01LF-2305W5MS (580-127963-1 MS). The internal standard reagent was corrected so the final would calculate correctly.

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

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Definitions/Glossary

Client: AECOM Job ID: 580-127963-1

Project/Site: Red Hill - AFFF Assessment Sampling

Qualifiers

GC Semi VOA

Qualifier **Qualifier Description** <u>J1</u> Estimated: The quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.

U Undetected at the Limit of Detection.

Glossarv

DLC

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
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

Decision Level Concentration (Radiochemistry) EDL Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level" MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit Minimum Level (Dioxin) ML Most Probable Number MPN MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present

PQL **Practical Quantitation Limit**

PRES Presumptive **Quality Control** QC

RER Relative Error Ratio (Radiochemistry)

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) Toxicity Equivalent Quotient (Dioxin) **TEQ**

TNTC Too Numerous To Count

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Client: AECOM Job ID: 580-127963-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW04-WGN01LF-2305W5 Lab Sample ID: 580-127963-1

Date Collected: 05/31/23 09:55 Matrix: Water

Date Received: 06/06/23 16:30

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac	
2-(2-Butoxvethoxv)ethanol	3.0	U J1	5.0	1.1	ma/L			06/07/23 22:43		

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Client: AECOM Job ID: 580-127963-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW06-WGN01LF-2305W5 Lab Sample ID: 580-127963-2

Date Collected: 05/31/23 11:40 Matrix: Water

Date Received: 06/06/23 16:30

	Method: SW846 8015C	GLY	- Glycols-	Direct Injection	(GC/FID)
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Analyte	Result Qualifier	LOQ	DL Unit	D	Prepared	Analyzed	Dil Fac
2-(2-Butoxyethoxy)ethanol	30 11	5.0	1.1 mg/l			06/07/23 23:07	1

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Client: AECOM Job ID: 580-127963-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW12A-WGN01LF-2305W5 Lab Sample ID: 580-127963-3

Date Collected: 05/31/23 09:20 Matrix: Water

Date Received: 06/06/23 16:30

Method: SW846 8015C GLY - Glycols- Direct Injection (GC/FID)

Analyte	Result	Qualifier	LOQ	DL U	Jnit	D	Prepared	Analyzed	Dil Fac
2-(2-Butoxyethoxy)ethanol	3.0	П	5.0	1 m	na/l			06/07/23 23:30	

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Client: AECOM Job ID: 580-127963-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW12A-WGFD01LF-2305W5 Lab Sample ID: 580-127963-4

Date Collected: 05/31/23 09:20 Matrix: Water

Date Received: 06/06/23 16:30

Analyte	Result Q	ualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac	
2-(2-Butoxyethoxy)ethanol	3.0 U		5.0	11	ma/l			06/07/23 23:53	1	

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Client: AECOM Job ID: 580-127963-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW16-WGN01LF-2305W5 Lab Sample ID: 580-127963-5

Date Collected: 05/31/23 12:10 Matrix: Water

Date Received: 06/06/23 16:30

Method: SW846 8015C GLY - Glycols- Direct	t Injection (GC/FID)
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Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac	
2-(2-Butoxyethoxy)ethanol	3.0	U	5.0	1 1	ma/l			06/08/23 00:16	1	

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Client: AECOM Job ID: 580-127963-1

Project/Site: Red Hill - AFFF Assessment Sampling

Method: 8015C GLY - Glycols- Direct Injection (GC/FID)

Lab Sample ID: MB 680-782368/9 Client Sample ID: Method Blank Prep Type: Total/NA

Matrix: Water

Analysis Batch: 782368

MB MB

Result Qualifier LOQ DL Unit Analyzed Dil Fac Analyte Prepared 5.0 1.1 mg/L 06/07/23 14:34 2-(2-Butoxyethoxy)ethanol 3.0 U

Lab Sample ID: LCS 680-782368/1005 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA

Analysis Batch: 782368

Spike LCS LCS %Rec Added Result Qualifier D %Rec Limits Unit 20.0 18.5 50 - 150 2-(2-Butoxyethoxy)ethanol mg/L 92

Lab Sample ID: LCSD 680-782368/6 Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Matrix: Water

Analysis Batch: 782368

Spike LCSD LCSD %Rec RPD Added Result Qualifier Limits RPD Analyte Unit %Rec Limit 2-(2-Butoxyethoxy)ethanol 20.0 19.4 97 50 - 150 mg/L

Lab Sample ID: 580-127963-1 MS Client Sample ID: AF-RHMW04-WGN01LF-2305W5 Prep Type: Total/NA

Matrix: Water

Analysis Batch: 782368

Spike MS MS %Rec Sample Sample Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits 2-(2-Butoxyethoxy)ethanol 3.0 U J1 20.0 13.6 mg/L 68 50 - 150

Lab Sample ID: 580-127963-1 MSD

Matrix: Water

Analysis Batch: 782368

MSD MSD RPD Sample Sample Spike %Rec Analyte Result Qualifier Added Result Qualifier Limits RPD Unit %Rec Limit 2-(2-Butoxyethoxy)ethanol 3.0 U J1 20.0 32.6 J1 163 82 mg/L 50 - 150 50

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6/13/2023

Prep Type: Total/NA

Client Sample ID: AF-RHMW04-WGN01LF-2305W5

Job ID: 580-127963-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW04-WGN01LF-2305W5

Lab Sample ID: 580-127963-1

Date Collected: 05/31/23 09:55 Date Received: 06/06/23 16:30

Client: AECOM

Matrix: Water

Batch Dilution Batch Batch Prepared Method Number Analyst or Analyzed **Prep Type** Type Run **Factor** Lab 06/07/23 22:43

Total/NA 8015C GLY 782368 DBM EET SAV Analysis

Client Sample ID: AF-RHMW06-WGN01LF-2305W5 Lab Sample ID: 580-127963-2

Matrix: Water

Matrix: Water

Date Collected: 05/31/23 11:40 Date Received: 06/06/23 16:30

Batch Batch Dilution Batch **Prepared Prep Type** Type Method Run **Factor Number Analyst** Lab or Analyzed 06/07/23 23:07 Total/NA Analysis 8015C GLY 782368 DBM EET SAV

Client Sample ID: AF-RHMW12A-WGN01LF-2305W5 Lab Sample ID: 580-127963-3

Date Collected: 05/31/23 09:20 Date Received: 06/06/23 16:30

Batch Batch Dilution Batch **Prepared** or Analyzed **Prep Type** Method **Factor Number Analyst** Type Run Lab 06/07/23 23:30 EET SAV Total/NA Analysis 8015C GLY 782368 DBM

Client Sample ID: AF-RHMW12A-WGFD01LF-2305W5 Lab Sample ID: 580-127963-4

Date Collected: 05/31/23 09:20 **Matrix: Water**

Date Received: 06/06/23 16:30

Batch Batch Dilution Batch **Prepared Prep Type** Method **Number Analyst** or Analyzed Type Run **Factor** Lab Analysis 8015C GLY 782368 DBM EET SAV 06/07/23 23:53 Total/NA

Client Sample ID: AF-RHMW16-WGN01LF-2305W5 Lab Sample ID: 580-127963-5

Date Collected: 05/31/23 12:10 **Matrix: Water**

Date Received: 06/06/23 16:30

Batch Batch Dilution Batch Prepared Method Factor Number Analyst or Analyzed **Prep Type** Type Run Lab 06/08/23 00:16 Total/NA Analysis 8015C GLY 782368 DBM **EET SAV**

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Accreditation/Certification Summary

Client: AECOM Job ID: 580-127963-1

Project/Site: Red Hill - AFFF Assessment Sampling

Laboratory: Eurofins Savannah

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Pr	rogram	Identification Number	Expiration Date
ANAB	De	ept. of Defense ELAP	L2463	09-22-24
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Eurofins Seattle

6/13/2023

Sample Summary

Client: AECOM Job ID: 580-127963-1

Project/Site: Red Hill - AFFF Assessment Sampling

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-127963-1	AF-RHMW04-WGN01LF-2305W5	Water	05/31/23 09:55	06/06/23 16:30
580-127963-2	AF-RHMW06-WGN01LF-2305W5	Water	05/31/23 11:40	06/06/23 16:30
580-127963-3	AF-RHMW12A-WGN01LF-2305W5	Water	05/31/23 09:20	06/06/23 16:30
580-127963-4	AF-RHMW12A-WGFD01LF-2305W5	Water	05/31/23 09:20	06/06/23 16:30
580-127963-5	AF-RHMW16-WGN01LF-2305W5	Water	05/31/23 12:10	06/06/23 16:30

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5755 8th Street East Tacoma, WA 98424

Chain of Custody Record

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Environment Testing America

Tacoma, WA 98424				•				U.	んっそ	ر	. A	LVI.	14	01	4-	17	28		020	America	
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Client Contact:	Phone. 206 - 4	50 - 78	320	E-Ma M.E		Wal	ker@E	Eurof	insE	r.com	1		State o Hawa)				Page Page 1 of 1		
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5755 8th Street East Tacoma, WA 98424

Chain of Custody Record

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Δ Yes Δ No																	_7	OI C	Ver [.] 01/16/2019

5755 8th Street East Tacoma, WA 98424

Chain of Custody Record

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United AWB 016-17286080

Environm∈nt Testing Am rica

Client Information	Sampler El /	Marin		Lab P Elair		/alke	er						arrier Tr edE x	acking l	vo(s)			COC № 2305W5AFEA05	•
Client Contact:	Phone / / 🌱	ラソソーラ	117	E-Mai	il:			a =	e	~		s	ate of C	rigin			\neg	Page [,]	
Company	612-	711-1	PWSID	MEI	aine	Wa	lker@	@Euro	tinst	1.cor	<u>n</u> _	<u> </u> -	awaii					Page 1 of 1	
AECOM									Α	naly	sis F	lequ	estec	l					
Address. 1001 Bishop St Suite 1600	Due Date Request see subcontract				П				T				-patrick*	*****	5			Preservation Cod	
City	TAT Requested (da				11	1	- 1			+		-	-	1 1	/ -	1 1		A HCL B NaOH	M Hexane N None
Honolulu	,	Rush - 5	Day		П	1	_	-						LZ				C Zn Acetate	O AsNaO2
State Zip: Hawail 96813	Compliance Projec	ot A Vas	No.			1	D5/ 2-(2-butoxyethoxy)-ethano			121	n		- -					D Nitric Acid E NaHSO4	P Na2O4S Q Na2SO3
Phone	PO#	J. H 103 /	- 110			- 30)-et				va h		X					F MeOH G Amchlor	R Na2S2O3 S H2SO4
808-954-4512 / 770-331-0794					or No		ě		6/	B1,	17 1			ll				H Ascorbic Acid	T TSP Dodecahydrate
Email· Watson Tanji (watson tanji@aecom.com)/ Mark Kromis (mark.kromis@aecom.com)	WO#				ō		xyel	- }	ľ	} '	1 }	-	1		- 1	1 1	e.	I ice J DIWater	U Acetone V MCAA
Project Name	Project #				ڠ	5	5				I					7	ا ق	K EDTA	W pH 4-5
CTO N6274223F0104	60697810				읦	es	싫								- 1 '	1	onts	L EDA	Z other (specify)
Site RHSF	SSOW#				am me	Perform MS/MSD (Yes or No)	92						1		- 1		oţc	Other [,]	
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			Sample Type	Matrix	ifer i		DAIG	1	_	1				1 I		1 1	Total Number		
		Sample	(C=comp,	(W≃water S≃solid	멸.	[⊈	8015C_		1				- Lance		_	.	Z Z		
Sample Identification	Sample Date	Time	(G≕grab)	O≕waste/oil, BT≃Tissue, A≃Air)	Fie	ē	<u>8</u>		<u>.</u>								ē	Special Ins	structions/Note:
	\geq	$\geq \leq$	Preserva	tion Code:	XX	\times	Α										\boxtimes		
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Non-Hazard Flammable Skin Irritant Poison B	Unknown	Radio	ological				Ret	urn To	Clie	nt	000000	Dis	posal	Ву La	•		Arch	ive For	Months
	Prelim data (Lev 4 report standar				ge S	Spec	ial In	structi	ons/0	QC Re	equire	ments	DOI	QSN	1 proje	ct			
	+ report standar	d IMI ME	OW Eduic										****						
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5755 8th Street East Tacoma, WA 98424

Chain of Custody Record

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Environment Testin, America

Tacoma, WA 98424				-					ţ	١٠٠,	ナア	Δν	313	01	۱6.	. 17	125	26	からか DC No:	Amenta	
Client Information	Sampler //	MACY	· p		b PM: aine W	/alker						Ca E-c	rrier Tra	acking	No(s)			C(DC No: B05W5AFEA0	6	
Client Contact.	Phone (/		8/C	E-I	Mail: .Elaine			Eurofi	insET	com		Sta	te of O	rigin		-		Pa	age 1 of 1		
Company AECOM	· L		PWSID									eque	ested	i					b#		
Address, 1001 Bishop St. Suite 1600 City Honolulu State Zip Hawaii 96813 Phone 808-954-4512 / 770-331-0794 Email Walson Tanji (walson.tanji@aecom.com)/ Mark Kromis (mark.kromis@aecom.com) Project Name CTO N6274223F0104	Due Date Request see subcontract TAT Requested (d Compliance Proje PO # WO # Project # 60697810	t ays) Rush - 5			Sample (Yes or No)	Perform MS/MSD (Yes or No) 8015C DAI GL D5/2-(2-butoxvethoxv)-ethanol	(Comp (Comp)			/3/	7	3,				. 2	containore	A B C D E F G H I	reservation Co- HCL NaOH Zn Acetate Nitric Acid NaHSO4 MeOH Amchlor Ascorbic Acid Ice DI Water EDTA EDA	M Hexane N None O AsNaO2 P Na2O4S Q Na2SO3 S H2SO4 T TSP Dot U Acetone V MCAA W pH 4-5 Z other (sp	e 3 3 93 decahydrate
Site RHSF Sample Identification	Ssow#	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oli, BT=Tissue, ^=/	Eield Filtered Sam	Perform MS/MSD (Yes or No) 8015C, DAI, GL, D5/2-(2-butoxye			, , , , , , , , , , , , , , , , , , ,	. /			an consideration				Total Number of co	5	her Special In	structions	/Note:
	$\geq \leq$	$\geq \leq$	Preserva	tion Code	\square	X											_2	\P			
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Possible Hazard Identification Non-Hazard Flammable Skin Irritant Poison B	onknown	Fari	ological				le Dis Retur				nay b	e ass	essed oosal i	i if sa	ample	es are	reta	inec	l longer than e For	1 month) Months	e
Deliverable Requested I, II, III, IV, Other (specify)	Prelim data (Le	vel 1or2)=se	e TAT abo	ve DoDS	tage S	Specia	al Inst	ructio	ns/Q	C Red	quirer	nents	DOL	QS	M pro	ject	7.0	07.117		WOTATA	
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Custody Seals Intact Custody Seal No Δ Yes Δ No						Cod	oler Tei	mperat	ture(s)	°C/and	d Other	Rema	ks				(1.5	2/4.0	<u> </u>	
																		`	+ 1	Ver 01/16	/2019

Client: AECOM Job Number: 580-127963-1

Login Number: 127963 List Source: Eurofins Seattle

List Number: 1

Creator: Johnson, Corey M

Creator. Johnson, Corey W		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survermeter.</td <td>ey N/A</td> <td></td>	ey N/A	
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	C. True	
Samples are received within Holding Time (excluding tests with immediate HTs)	e 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.	N/A	
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.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	