PREPARED FOR

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

Generated 3/21/2023 5:18:17 PM

JOB DESCRIPTION

Red Hill - AFFF Assessment Sampling

ANALYTICAL REPORT

JOB NUMBER

580-124763-1

Eurofins Seattle 5755 8th Street East Tacoma WA 98424



Eurofins Seattle

Job Notes

This report is issued solely for the use of the person or company to whom it is addressed. Any use, copying or disclosure other than by the intended recipient is unauthorized. If you have received this report in error, please notify the sender and destroy this report immediately. This report shall not be reproduced except in full, without prior express written approval by the laboratory.

The data in the report relate to the field sample(s) as received by the laboratory and associated QC. All results have been reviewed and have been found to be compliant with laboratory and accreditation requirements, with the exception of the noted deviation(s). For questions, please contact the Project Manager.

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

Generated 3/21/2023 5:18:17 PM

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

2

4

6

9

10

Client: AECOM

Project/Site: Red Hill - AFFF Assessment Sampling

Laboratory Job ID: 580-124763-1

Table of Contents

Cover Page	1
Table of Contents	3
Case Narrative	4
Definitions	
Client Sample Results	6
QC Sample Results	
Chronicle	12
Certification Summary	13
Sample Summary	14
Chain of Custody	15
Receipt Checklists	25

Case Narrative

Client: AECOM Job ID: 580-124763-1

Project/Site: Red Hill - AFFF Assessment Sampling

Job ID: 580-124763-1

Laboratory: Eurofins Seattle

Narrative

CASE NARRATIVE Client: AECOM

Project: Red Hill - AFFF Assessment Sampling Report Number: 580-124763-1

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 3/15/2023 10:45 AM. 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 5.1° 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-RHMW17D-WGN01LF-2303W1 (580-124763-1), AF-RHMW17D-WQFB01-2303W1 (580-124763-2), AF-RHMW17-WGN01LF-2303W1 (580-124763-3), AF-RHMW17S-WGN01LF-2303W1 (580-124763-4) and AF-RHMW17S-WQEB01-2303W1 (580-124763-5) were analyzed for glycols in accordance with EPA SW-846 Method 8015B - DAI. The samples were analyzed on 03/19/2023.

2-(2-Butoxyethoxy)ethanol failed the recovery criteria high for the MSD of sample AF-RHMW17D-WGN01LF-2303W1MSD (580-124763-1) in batch 680-768387. The associated LCS/LCSD recoveries were in control.

The continuing calibration verification (CCV) associated with batch 680-768387 recovered above the upper control limit for 2-(2-Butoxyethoxy)ethanol. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data has been reported. The following samples are impacted: AF-RHMW17D-WGN01LF-2303W1 (580-124763-1), AF-RHMW17D-WGR01LF-2303W1 (580-124763-2), AF-RHMW17S-WGR01LF-2303W1 (580-124763-4), AF-RHMW17S-WGR01LF-2303W1 (580-124763-5), (CCV 680-768387/33), (580-124763-A-1 MS) and (580-124763-A-1 MSD).

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

5

4

5

7

ŏ

1 N

Definitions/Glossary

Client: AECOM Job ID: 580-124763-1

Project/Site: Red Hill - AFFF Assessment Sampling

Undetected at the Limit of Detection.

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
J1	Estimated: The quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
M	Manual integrated compound.
Q	One or more quality control criteria failed.

Glossary

U

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

DLC	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)

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

Not Calculated NC

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

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

RLReporting Limit or Requested Limit (Radiochemistry)

Relative Percent Difference, a measure of the relative difference between two points **RPD**

TEF Toxicity Equivalent Factor (Dioxin) TEQ Toxicity Equivalent Quotient (Dioxin)

Too Numerous To Count TNTC

Eurofins Seattle

Page 5 of 25 3/21/2023

Client: AECOM Job ID: 580-124763-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW17D-WGN01LF-2303W1 Lab Sample ID: 580-124763-1

Date Received: 03/15/23 10:45

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

Analyte	Result Qualifier	LOQ	DL Unit	D	Prepared	Analyzed	Dil Fac
2-(2-Butoxyethoxy)ethanol	3.0 UMQ.I1	5.0	1.1 mg/l			03/19/23 00:50	1

4

5

0

8

9

10

Client: AECOM Job ID: 580-124763-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW17D-WQFB01-2303W1 Lab Sample ID: 580-124763-2

Date Collected: 03/10/23 11:30

Matrix: Water

Date Received: 03/15/23 10:45

Analyte	Result Qualifier	LOQ	DL Unit	D	Prepared	Analyzed	Dil Fac	
2-(2-Butoxyethoxy)ethanol	30 UMQ	5.0	1.1 mg/l			03/19/23 01:59	1	

4

6

Q

9

10

Client: AECOM Job ID: 580-124763-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW17-WGN01LF-2303W1 Lab Sample ID: 580-124763-3

Date Collected: 03/10/23 13:35

Date Received: 03/15/23 10:45

Analyte	Result	Qualifier	LOQ	DL Unit	Prepared	Analyzed	Dil Fac
2-(2-Butoxyethoxy)ethanol	3.0	UMO	5.0	1 1 mg/l		03/19/23 02:23	1

5

7

8

4.0

Client: AECOM Job ID: 580-124763-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW17S-WGN01LF-2303W1 Lab Sample ID: 580-124763-4

Date Collected: 03/10/23 11:10 Eas Cample 15: 500-12-17-00-4

Date Received: 03/15/23 10:45

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

Analyte		Qualifier	LOQ		Jnit	D	Prepared	Analyzed	Dil Fac	;
2-(2-Butoxyethoxy)ethanol	3.0	UMO	5.0	1 m	na/l			03/19/23 02:46	1	

4

5

6

8

9

10

Eurofins Seattle

Client: AECOM Job ID: 580-124763-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW17S-WQEB01-2303W1 Lab Sample ID: 580-124763-5

Date Collected: 03/10/23 14:45

Date Received: 03/15/23 10:45

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
2-(2-Butoxyethoxy)ethanol	3.0	UMQ	5.0	1.1	ma/L			03/19/23 03:09	

5

7

8

9

Client: AECOM Job ID: 580-124763-1

Project/Site: Red Hill - AFFF Assessment Sampling

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

Lab Sample ID: MB 680-768387/17 Client Sample ID: Method Blank

Matrix: Water

Analysis Batch: 768387

MB MB

Result Qualifier LOQ DL Unit Analyzed Dil Fac Analyte Prepared 5.0 1.1 mg/L 03/18/23 21:44 2-(2-Butoxyethoxy)ethanol 3.0 U M

Lab Sample ID: LCS 680-768387/13

Matrix: Water

Analysis Batch: 768387

Spike LCS LCS %Rec Added Result Qualifier D %Rec Limits Unit 20.0 24.5 50 - 150 2-(2-Butoxyethoxy)ethanol mg/L 123

Lab Sample ID: LCSD 680-768387/14

Matrix: Water

Analysis Batch: 768387

Spike LCSD LCSD %Rec RPD Added Result Qualifier Limits RPD Analyte Unit %Rec Limit 2-(2-Butoxyethoxy)ethanol 20.0 23.7 50 - 150 mg/L

Lab Sample ID: 580-124763-1 MS

Matrix: Water

Analysis Batch: 768387

Spike MS MS %Rec Sample Sample Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits 2-(2-Butoxyethoxy)ethanol 3.0 UMQJ1 20.0 28.0 mg/L 140 50 - 150

Lab Sample ID: 580-124763-1 MSD

Matrix: Water

Analysis Batch: 768387

MSD MSD RPD Sample Sample Spike %Rec Analyte Result Qualifier Added Result Qualifier Limits Unit %Rec Limit 2-(2-Butoxyethoxy)ethanol 3.0 UMQJ1 20.0 30.3 J1 152 mg/L 50 - 150 8 50

Eurofins Seattle

3/21/2023

Prep Type: Total/NA

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Client Sample ID: AF-RHMW17D-WGN01LF-2303W1

Client Sample ID: AF-RHMW17D-WGN01LF-2303W1

Job ID: 580-124763-1

Matrix: Water

Matrix: Water

Matrix: Water

Matrix: Water

Lab Sample ID: 580-124763-3

Lab Sample ID: 580-124763-5

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW17D-WGN01LF-2303W1

Lab Sample ID: 580-124763-1 **Matrix: Water**

Date Collected: 03/10/23 12:15 Date Received: 03/15/23 10:45

Client: AECOM

Batch Dilution Batch Batch Prepared Method Number Analyst or Analyzed **Prep Type** Type Run **Factor** Lab 03/19/23 00:50 Total/NA 8015C GLY 768387 JCK EET SAV Analysis

Client Sample ID: AF-RHMW17D-WQFB01-2303W1 Lab Sample ID: 580-124763-2

Date Collected: 03/10/23 11:30

Date Received: 03/15/23 10:45

Batch Batch Dilution Batch **Prepared Prep Type** Type Method Run **Factor Number Analyst** Lab or Analyzed Total/NA Analysis 8015C GLY 768387 JCK EET SAV 03/19/23 01:59

Client Sample ID: AF-RHMW17-WGN01LF-2303W1

Date Collected: 03/10/23 13:35

Date Received: 03/15/23 10:45

Batch Batch Dilution Batch Prepared **Number Analyst** or Analyzed **Prep Type** Method **Factor** Type Run Lab 03/19/23 02:23 EET SAV Total/NA Analysis 8015C GLY 768387 JCK

Lab Sample ID: 580-124763-4

Client Sample ID: AF-RHMW17S-WGN01LF-2303W1

Date Collected: 03/10/23 11:10

Date Received: 03/15/23 10:45

Batch Batch Dilution Batch **Prepared Prep Type** Method **Number Analyst** or Analyzed Type Run **Factor** Lab Analysis 8015C GLY 768387 JCK EET SAV 03/19/23 02:46 Total/NA

Client Sample ID: AF-RHMW17S-WQEB01-2303W1

Date Collected: 03/10/23 14:45

Date Received: 03/15/23 10:45

Batch Batch Dilution Batch Prepared Method Factor Number Analyst or Analyzed **Prep Type** Type Run Lab 03/19/23 03:09 Total/NA Analysis 8015C GLY 768387 JCK **EET SAV**

Laboratory References:

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

3/21/2023

Accreditation/Certification Summary

Client: AECOM Job ID: 580-124763-1

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		Program	Identification Number	Expiration Date
ANAB		Dept. of Defense ELAP	L2463	09-22-24
The following analyte the agency does not		port, but the laboratory is not	certified by the governing authority.	This list may include analytes for which
Analysis Method	Prep Method	Matrix	Analyte	
8015C GLY		Water	2-(2-Butoxyethoxy)ethanol	

Eurofins Seattle

Sample Summary

Client: AECOM Job ID: 580-124763-1

Project/Site: Red Hill - AFFF Assessment Sampling

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-124763-1	AF-RHMW17D-WGN01LF-2303W1	Water	03/10/23 12:15	03/15/23 10:45
580-124763-2	AF-RHMW17D-WQFB01-2303W1	Water	03/10/23 11:30	03/15/23 10:45
580-124763-3	AF-RHMW17-WGN01LF-2303W1	Water	03/10/23 13:35	03/15/23 10:45
580-124763-4	AF-RHMW17S-WGN01LF-2303W1	Water	03/10/23 11:10	03/15/23 10:45
580-124763-5	AF-RHMW17S-WQEB01-2303W1	Water	03/10/23 14:45	03/15/23 10:45

1

4

4

6

9

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler) I U	u Sh	VCly		PM: tine W	aiker	·					Cam		cking No	x(s):		,	COC No: 2303W1AFEA1	2
Client Contact	Phone: 850	938-	77/5	E-M M.I	tail: Elaine	.Wall	ker@E	urofii	nsET.	com		State Hav	of Ori vail	igin:		ļ		Page: Page 1 of 1	
Company: AECOM			PWSID:						An	alys	is Re	ques	ted					√ob #:	
Address: 1001 Bishop St. Suite 1600	Due Date Request see subcontrac TAT Requested (d	t															100	Preservation Co A - HCL B - NaOH	des: M - Hexane N - None
City: Honolulu State: Zip:	TAT Requested (o	Rush - A	SAP			1												C - Zn Acetate D - Nitric Acid	0 - AsNaQ2 P - Na2O4S
Hawaii 96813 Phone:	Compliance Proje PO #:	ct: A Yes	ΔNo		- 1	v)-eth				l	_				1			E - NaHSO4 F - MeOH G - Amchlor	Q - Na2SO3 R - Na2S2O3 S - H2SO4
808-954-4512 / 770-331-0794 Email: Watson Tanji (watson.tanji@aecom.com)/ Mark Kromis (mark.kromis@aecom.com)	WO#:				e or No	oxyetho						I		1			2	H - Ascorbic Acid I - Ice J - Di Water	T - TSP Dodecahydrate U - Acatone V - MCAA
Project Name: CTO N6274223F0104	Project #: 60697810				Sample (Yes or	-(2-butox						1						K - EDTA L - EDA	W - pH 4-5 Z - other (specify)
CTO N6274223F0104 Site: RHSF	SSOW#:				Sam	M GL D5/2	,				13	1'						Other:	
Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)		old Fill	8015C D/	_		/								Total Number	Special In	structions/Note:
		\gg		ation Code:	P	٩^		12.85					2.54				X		
AF-RHMW17S-WGN01LF-2303W1	3/10/23	IIID	G	W	N		-		_	_		$\downarrow \downarrow$	_				3		
AF-RHMW17S-WQEB01-2303W1	3/10/23	1445	G	W	N !	× ا						\sqcup	\perp	\bot					
					廿	士				士					士				
					$\!$	+			_		+	╁┥	=	#	1				
					ႵႵ	Ŧ			\dashv	-	+	H							
		-4	211	7	1	40		2	<u>-</u>	4	-	\vdash		580-1	2476	33 Ch	 ain	of Custody	
					H	\pm		\exists		\pm	\perp								
Possible Hazard Identification				L	S	ampl	e Disp	osal	(A f	ee ma	y be	asses	sed i	f sam	oles a	re ret	aine	ed longer than 1	month)
Non-Hazard Flammable Skin Irritant Poison B	unknown	Radio	logical			\Box_{r}	Return	To C	lient			Dispo:]		rchi	ve For	Months
Deliverable Requested: I, II, III, IV, Other (specify)	Prelim data (Lev	el 1or2)≔se 1 TAT_AE0	e TAT abo	ve. DoD Sta S EDD	ige Si	pecia	i instr	uction	is/QC	Requ	ireme					L			
Empty Kit Relinquished by:	7.3	Date:			Time								dethod	of Ship					
			(45>	AECOM			eived by	J	gyv	2.5 ع	1	195	C 7 \			101	23	3 1455	Company AECOM Company
Relinguished by:) ames Mason	Date/Time: 3 / 13/	23	1235	Company AECO	<u> </u>		elved by		V/C	=				г.	5//	7 <u>/</u> 2	2,5	7 1045	
Relinquished by:	Date/Time:			Company			eived tij			_				Dat	e/ime:	/		/	Corrispany
Custody Seals Intact: Custody Seal No.: Δ Yes Δ No						Coo	ler Tem	peratb	re(s)°(and C	other R	emarks						5.15.	Ver: 01/16/2019

Chain of Custody Record

🗟 eurofins

Environment Testing

Client Information	Sampler	Shi	/ely		PM: sine V	/alke	r						Carrier FedE:		Ing No	(s):			COC No: 2303W1AFEA1	1
Client Contact:	Phone: 856	-d3×-	17/10		ail: Elaine	.Wal	ker@l	Eurof	insEl	.com	1		State o		n:				Page: Page 1 of 1	
Company: AECOM	1 1/1/0		PWSID:		T						sis F	 ≀ea≀	uest	ed				·	Job#:	
Address: 1001 Bishop St. Suite 1600	Due Date Request see subcontrac												T		T	T	$ T_{\lambda} $	1	Preservation Co	des: M - Hexane
City: Honolulu	TAT Requested (d	ays): Rush - A	ASAP				5					-					1		B - NaOH C - Zn Acetate D - Nitric Acid	N - None O - AsNaO2 P - Na2O4\$
State, Zip: Hawaii 96813	Compliance Proje	ct: ∆ Yes	a No		11											1			E - NaHSO4 F - MeOH	Q - Na2SO3 R - Na2S2O3
Phone: 808-954-4512 / 770-331-0794	P0#:				<u>ş</u>		-facount					$_{\cap}$	W	1	1			100 A	G - Amchlor H - Ascorbic Acid	S - H2SO4 T - TSP Dodecahydrate
Email: Watson Tanji (watson.tanji@aecom.com)/ Mark Kromis (mark.kromis@aecom.com)	WO #:				Š		Ko				'	W,	16	3				2	i - ice J - Di Water K - EDTA	U - Acetone V - MCAA
Project Name: CTO N6274223F0104	Project #: 60697810				10	3	2						21						L - EDA	W - pH 4-5 Z - other (specify)
CTO N6274223F0104 Site: RHSF	SSOW#:				Sample (Yes or		8			1		2					200	Cofco	Other:	
Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Moveter, Secolid, Ormestololl, BT=Tissue, AnAir	Fleid Filtered	ANTEC DALG	A section of the building section of the section of											Total Numbe	Special In	structions/Note:
		X	Preserv	ation Code:	X	4 2		1 22		祭河.		18 G. 4 G.	100 m	G# 68				X		
AF-RHMW17D-WGN01LF-2303W1	3//0/23	1115	G	W	N	N)	(\perp		$oldsymbol{ol}}}}}}}}}}}}}}$		3		
AF-RHMW17D-WQFB01-2303W1	3/10/23	1130	G	w	N	N >	($oldsymbol{\perp}$		1	3		
					\pm	\pm						\pm	\perp	\pm			-	1		
		_			Ш	\perp						_	士	士	\mathbb{L}		1			
					\coprod	_	1							\perp						
					Ш												111111111111111111111111111111111111111	100		
					Ц	\perp														
				1	Ш	12/	1/0	12	3											
			()		Ш	┸						\perp					wasser.			
					П						\perp	士	\pm	\pm	\perp		1	13. 14.		
Possible Hazard Identification Non-Hazard Flammable Skin Imitant Poison B	Unknown		elogical		s	amp	le Dis Petun	posa a To (il (A) Client	fee n	nay b	e ass	56556 2022	dif.	samp ah	ies a (re re	etain Amb	ed longer than : ive For	month) Months
Deliverable Requested: I. II. III. IV. Other (specify)	Prelim data (Lev	el 1or2)=se	e TAT abo	ve. DoD Sta														7-11 () F.	170 T CA	
Empty Kit Relinquished by:	4 report standar	LTAT_AEC Date:	COM EQui	S EDD.	Time):	******						Me	thod o	f Shipr	nent:	- 1			
	0ate/Time: 3/10/3/3	14:	35	Company AECOM	· · · · · · · · · · · · · · · · · · ·	Rei	ceived t	ъх: <i>)</i>	qyr	105	۲	۰ S	<u>.</u>		3	/Time		.3	1435	Company AECOM
Relinquished by: James Mason	Date/Time: 3/13/2	12	-3S	Company AECC	 مسيا _{ل (}	Red	ceived t	39://			7_				Date	3/	150	<i>T5</i> ·	3 1045	Company
	Date/Time:			Company		Red	eived t	منواد	_/	1					Date	Ume	1			Company
Custody Seals Intact Custody Seal No.: Δ Yes Δ No						Cod	oler Ten	nperati	nuc(e)	°C and	Other	Rema	erks:						5.1/5.1	Ver: 01/16/2019

5755 8th Street East Tacoma, WA 98424

Chain of Custody Record

eurofins |

Environment Testing

	To			17.5									In		1.1 X	1-7-1		1	165				
Client Information	Same	Sh	very	E		Valke	*						Fed	Ex	king N	40(S):			230	No: 13W1AFE	A10		
Client Contact:	Phone: S	6. 43	8-77	E.N	vlali: Elain	e.Wa	lker@)Euro	finsE	T.cor	D.		State Haw	of On ali	gin:				Page Page	e: ge:1 of 1			
Company: AECOM			PWSID:		I				А	naly	/sis	Req	ues	ted				1	Job	k:			
Address: 1001 Bishop St. Suite 1600	Due Date Reques see subcontrac				\$20.00 \$1			T		Γ							7	5.80	52.0	servation HCL		: I - Hexane	
City: Honolulu	TAT Requested (d	lays): Rush - /	SAP		2007		_									λ		養養	B-1 C-2	NaOH Zn Acetate	N O	- None - AsNaO2	
State, Zip: Hawaii 96813	Compliance Proje	ct A Yes	Δ No				Š												∰ E-1	Nitric Acid NaHSO4	a	- Na2O4S - Na2SO3	
Phone: 808-954-4512 / 770-331-0794	PO#:				ş		Hoxy					1						2000	G-/	vieCIH Amchlor Ascorbic Aci	s	- NaZSZO - HZSO4 - TSP Dod	a ecahydrate
Ernall: Watson Tanji (watson.tanji@aecom.com)/ Mark Kromis (mark.kromis@aecorn.com)	WO #:				ğ	2	ě,				1	M		7	\$				1-10	e II Water		- Acetone - MCAA	
Project Name: CTO N6274223F0104	Project #: 60697810			*****************	٦٤		ing-z)				W	\backslash	01					E E	91 e	DTA DA		' - pH 4-5 - other (sp	ecify)
Site: RHSF	\$SOW#:				Samp	5 2	Š					3\						of con		r:			
Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Www.star, S-solid, Onwestafoll, BT=Tiscos, Anha	Filtered	Parters MSIN	ou lou_DAL_UL_LDS/X-(K-butoxyyethoxy)-ethanol											Total Number		Specia	l Instr	uctions/	Note:
		> <	Preserve	ttion Code:	X	$\times \!\!\! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \!$	4											D					or an allowers Ser
AF-RHMW17-WGN01LF-2303W1	3/10/23	1335	G	W	N	N)	x											3					
					++						-+	-	_	\dashv	+	-	\Rightarrow						
					\prod							_	_	1					1				
					Ш																		
					Ш			1_				_	\perp	1	_			100					
					\bot							\perp	\bot			\perp	\perp		1_				
					\coprod							_	_	\perp	\perp	\perp		6.0	1				
			~~~~	1	ŁŁ		4	<u>↓</u>			_	_		_	_		1		1_				
				رحي	14	47	<u>Ч</u>	13	//	24	4	3	$\perp$	$\perp$	4	_	_		_				
					廿		士	<u> </u>		<u> </u>	<u>-</u>	$\pm$			_		士		<u></u>				
Possible Hazard Identification  Non-Hazard Flammable Skin Imitant Poison B	<del>Un</del> known	e artic	logical		ľ	Samp	le Di: Retui	spos: m To	el ( A Clien	fee r t	nay E	ne as Di	spos	ed il ei Rv	sam i ah	iples	are I	1	ined lo chive F	nger tha	n 1 m	onth) Months	
Deliverable Requested: I, II, III, IV, Other (specify)	Prelim data (Lev	el 1or2)=se	e TAT abov	ve. DoD Sta	ge S						quire	men	ts: D	OD (	SM	proje	ct.	7,0		<u> </u>		WOM	
Empty Kit Relinquished by:	4 report standar	Date:	UM EQUE	S EDD.	Tim	e:							М	ethod	of Shi	pment				***************************************			
Reinghished by: Shively /AECan	Date/Time: 3/10/23	14	50	Company AECOM		Re	ceived	by:	بمأرد	نع ۱۲۰۰	5	M9	50	Α.	Da	ite/Tam 3,	e: //0	/z	3	1435	Co,	mpany Á-E(C	۲
Relinquished by James Kason	Date/films: 3/ <b>3</b> /23	(2	.35	Company	ماع د	Re	celved (	7		2	F				Da	te/Im	//:	1/2	23	/0YS	5 0	mpany	
Relinquished by:	Date/Time:			Company	· · · · · · · ·		ceived	by:	/	_		,,,			Da	te/Tich	e:	,		1 Y	Co	mpany	
Custody Seals Intact: Custody Seal No.:  Δ Yes Δ No						Cod	oier Te	mpera	ure(s)	°C an	Othe	r Rem	arks:						۲,	1/5.			
																	-				Ve	r: 01/16/2	019

Eurofins FGS, Seattle				!	,					st eurofins		t.
5/55 8th Street East Tacoma, WA 98424	<u>ט</u>	nain of	Custo	Chain of Custody Record	cord					·		Environment lesting America
	Samples 1.VC	Shively	2	Lab PM: Elaine	Lab PM: Elaine Walker			Carrier Tracking No(s): FedEx	lo(s):	COC No: 2303W1AFEA11	-EA11	
Client Contact:	1	938-1	e	E-Mail: M.Elair	ie.Walker	E-Mail: M.Elaine.Walker@EurofinsET.com		State of Origin: Hawaii		Page: Page 1 of 1	1	
Сомрапу: АЕСОМ			PWSID:				sis Rec	sted		,# doL		
hop St. Suite 1600	Due Date Requested: see subcontract									Preservation Codes: A - HCL M	Ιõ	жапе
	TAT Requested (days):	): Rush - ASAP	ΑΡ		Jo	-				B - NaOH C - Zn Acetate		N - None O - AsNaO2 D N2048
	Compliance Project:	△ Yes △ No	No		ethan				_	E - NaHSO4		2503 2503
/ 770-331-0794	PO #:			lok				3		G - Amchlor H - Ascorbic		S - H2SO4 T - TSP Dodecahydrate
gaecom.com)/ Mark Kromis (mark.kromis@aecom.com)	:# OM			JO 86	(ON J		<b>∋</b>	15				etone SAA
	Project #: 60697810			N alc	o sey	·····				100000000000000000000000000000000000000	w - pi	W - pH 4-5 Z - other (specify)
	:#MOSS			msS	) asw					of co Other:		
		olumeS	Sample Type	Matrix ee (w=water, EE S=solid, d	N <b>SM mno</b> l 10_1Aq_0					edmuN is		
Sample Identification	Sample Date	- 1	G=grab) BT=TIssue, A=Air)	O=waste/oli, @	Pen	Y					Special Instructions/Note:	ions/Note:
	1	7	Preservatio	: Code:	X							
AF-RHMW17D-WGN01LF-2303W1	3/10/23	1315	9	z >	× z					8		
AF-RHMW17D-WQFB01-2303W1	3/10/23	1136	ტ	z }	×					••		
		1			+				1			
											:	
				ļ	1	H						
			(	1	151	C/0/	2					
				100								
Possible Hazard Identification  Non-Lazard Clammahla Ckin Initiant Doison B		l La	Gical		Sample	Disposal	Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)  Return To Client  Disposal By Lab  Mon	essed if sa posal Bv Lal	mples are i	etained longer Archive For	than 1 mon	onth) Months
ested: I, II, III, IV, Other (specify)		1 1 or 2)=see	evel 1or2)=see TAT above. Dol	. DoD Stage	Special	Instruction	Prelim data (Level 10r2)=see Af Dave. DoD Stage Special Instructions/QC Requirements: DOD QSM project.	: DOD QSN	1 project.			
Empty Kit Relinquished by:	4 report standard D	Date:			Time:			Method of Shipment:	hipment:			
W/AECON	Date/Time:	43	S	Company AECOM	Rece	Received by:	18 PASS 1		Date/Time:	2	S Company	any FCON
James Mason	Date/Time:	22	W	Company Co N	1	Received by:			Date/Lime/	K3 (RX	5	any
	Date/Time:		8	Company	Rece	Received by:			Date/Time:		Сотрапу	апу
Custody Seals Intact: Custody Seal No.:					Coole	er Temperatu	Cooler Temperature(s) °C and Other Remarks:	ırks:		511	S. /	
											Ver	Ver: 01/16/2019

10

5755 8th Street East	Chain of Custody Becord	tody Reco	Ţ			eurofins	Environment Testing
Tacoma, WA 98424		ona irea	3				America
	many on somes	Lab PM: Elaine Wall	Lab PM: Elaine Walker	Carrier Tracking No(s). FedEx	(s):	COC:No: 2303W1AFEA1	
Client Contact:	886		alker@EurofinsET.com	State of Origin: Hawaii		Page: Page 1 of 1	
Company: AECOM	PWSID:		Analysis Requested	quested	an	Job #:	
hop St. Suite 1600	Due Date Requested: see subcontract					Preservation Codes	les: M - Hexane
	TAT Requested (days): Rush - ASAP		lc		_	B - NaOH C - Zn Acetate	N - None O - AsNaO2
State, Zip: Hawaii 96813	Compliance Project: △ Yes △ No		onsilta			D - Nithe Acid E - NaHSO4	P - Na204S Q - Na2SO3
Phone: 808-954-4512 / 770-331-0794	PO #:	(0)	-{\frac{1}{2}}	7		G - Amchlor H - Ascorbic Acid	S - H2SO4 T - TSP Dodecahydrate
gaecom.com)/ Mark Kromis (mark.kromis@aecom.com)	WO #:		loxyell	× ×	S19		U - Acetone V - MCAA
Project Name: CTO N6274223F0104	Project #: 60697810		nq-z)-	0	nising	828 BY 1770 B	W - pH 4-5 Z - other (specify)
	SSOW#:				oo 10 1	Other:	
	Sample Type Sample (C=comp.	Matrix (W=water, S=solid, HII(ered	ec_DAI_er		edmuN le		
Sample Identification	G=grab)	티	108		loT )		Special Instructions/Note:
		Preservation Code:	A		<b>X</b>		
AF-RHMW17-WGN01LF-2303W1	3/10/23 1335 6	z z x	×		m		
					$\left\{ \right\}$		
				+			
						33.4653	
		010					
and the same of th		7	1 3/10/2 L				
Identification		Sar	ee may be	assessed if san	ples are retai	ned longer than	1 month)
aut	Triknown 'Radiological State And		Social Lada disputation Disposal By Lab	Disposal By Lab	] Arciora	Archive For	Months
Deliverable Requested: I, II, III, IV, Other (specify)	Prelim data (Level 10rz)=see 1A1 above. Do 4 report standard TAT. AECOM EQuIS EDD	/e. Dou stage   Spe ; EDD.	eciai instructions/QC Requirem	enis: DOD QSM	project.		
Empty Kit Relinquished by:	Date:	Time:		Method of Shipment:	pment:		
Reinguished by: Shirt G APCON	Date/Time: 75 (435)	Company AECOM	James 1	10 VOS 674	Date/Time:	3 1435	Company Aモベン
ames Mason	Date/Time; 235 (235)	Company A£ Co M	Received by:	De	Date/Time://5/	Stal 182	Сотрапу
		Сотрапу	Received by:		Date/Tinne:		Company
Custody Seals Intact Custody Seal No.:			Cooler Temperature(s) °C and Other Remarks:	Remarks:	V ₁₀ A y	5,1/5,	/
							Ver: 01/16/2019

Eurofins FGS, Seattle

10

N - None
O - Ashao2
P - Na2045
Q - Na2503
R - Na25203
S - H2504
T - TSP Dodecahydrate
U - Acetone
W - MCAA
W - pH 4-5
Z - other (specify) **** eurofins** Environment Testing Special Instructions/Note: Months Sompany reservation Codes COC No: 2303W1AFEA12 といた A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
F - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid 401 Page: Page 1 of 1 Job #: I - Ice J - Di Water K - EDTA L - EDA Total Number of containers Date/Time; Method of Shipment Carrier Tracking No(s): FedEx State of Origin: Hawaii 1680X **Analysis Requested** Cooler Temperathre(s) °C and Other Remarks: SULES Lab PM: Elaine Walker E-Mail: M.Elaine.Walker@EurofinsET.com Received by: C Chain of Custody Record × z z Perform MS/MSD (Yes or No) Field Filtered Sample (Yes or No) z Prelim data (Level 1or2)=see TAT above. DoD Stage 4 report standard TAT. AECOM EQuIS EDD. Matrix
(W=water,
S=solid,
O=wastefoll,
BT=Tissue, A=Air) Preservation Code: Company AECOM ≥ ≷ Sample (C=comp, G=arab) E SS 235 Type G മ TAT Requested (days):
Rush - ASAP Compliance Project: A Yes A No Sample Time Date/free 3//0/23
Date/Time:
3/(3/2/3
Date/Time: びれて 0 Date: 25.2 Due Date Requested: see subcontract Phone: 856 - 1 onknown Sample Date 3/10/23 3/10/23 Project #: 60697810 SSOW#: ₩O # Poison B Natson Tanji (watson.tanji@aecom.com)/ Mark Kromis (mark.kromis@aecom.com) Skin Irritant Deliverable Requested: I, II, III, IV, Other (specify) JOSEL Custody Seal No.: AF-RHMW17S-WGN01LF-2303W1 AF-RHMW17S-WQEB01-2303W1 **Eurofins FGS, Seattle** ossible Hazard Identification 0.5°C Phone: 808-954-4512 / 770-331-0794 No. in the Address: 1001 Bishop St. Suite 1600 Empty Kit Relinquished by: Custody Seals Intact: △ Yes △ No Client Information Sample Identification Project Name: CTO N6274223F0104 Facoma, WA 98424 5755 8th Street East Non-Hazard nquished by: Hawaii 96813 inquished by: telinquished by: lient Contact: Jonolulu Company: AECOM RHSF

0 - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - ESSO4 T - TSP Dodecahydrate U - Acetone W - pH 4-5 Z - other (specify) Special Instructions/Note: Months Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)

Return To Client Disposal By Lab Archive For Month reservation Codes COC No 2303W1AFEA11 A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
F - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid 70 Page: Page 1 of 1 Job #: I - Ice J - DI Water K - EDTA L - EDA 580-124763 Chain of Custody Total Number of containers က Special Instructions/QC Requirements DOD QSM project. Date/Time: Method of Shipment Carrier Tracking No(s): FedEx State of Origin: Hawaii **Analysis Requested** Cooler Temperature(s) °C and Other Remarks: 2 Lab PM: Elarne Walker E-Mait: M Elarne Walker@EurofinsET com Received by-Received by: Received by- $\overline{c}$ × × 8015C_DALGL_D5/ 2-(2-butoxyethoxy)-ethanol z Perform MS/MSD (Yes or No) z Field Filtered Sample (Yes or No) Tinknown Fablological
Prelim data (Level 1or2)=see TAT above. DoD Stage
4 report standard LAT. AECOM FOUIS EDD. ITin
Date. Company
AECOM
Company
Company Sample Matrix
Type (Wewater
(Secomp, Conwastool)
G=grab) BT=Tassue, A=Atr) Preservation Code: ≥ ≥ Sample Phone: 856-938-1710 Due Date Requested see subcontract TAT Requested (days): Rush - ASAP O O つかか JN: VELY 1 Sample 75 Time Sample J. M.C. Sample Date 3/10/13 Date/Time: Project #: 60697810 SSOW#: 3/10/13 %O#: Poison B Natson Tanji (watson.tanji@aecom.com)/ Mark Kromis (mark.kromis@aecom.com) Skin Irritant leliverable Requested | II III IV Other (specify) AFCON. Custody Seal No AF-RHMW17D-WGN01LF-2303W1 Non-Hazard Flammable AF-RHMW17D-WQFB01-2303W1 sible Hazard Identification シャラ 308-954-4512 / 770-331-0794 1001 Bishop St. Surte 1600 npty Kit Relinquished by Custody Seals Intact: △ Yes △ No Client Information Sample Identification Project Name: CTO N6274223F0104 State, Zip Hawaii 96813 elinquished by: elinquished by Sompany: AECOM Honolulu RHSF

Tes ng

En ronmen

🔆 eurofins

Chain of Custody Record

**Eurofins FGS, Seattle** 

Tacoma WA 98424 5755 8th Street East

Eurofins FGS, Seattle 5755 8th Street East Tacoma WA 98424	Chain of	Chain of Custody Record	Record			ুং eurofins Enণ তনment Testing America
Client Information	MY US WILLIAMS		Lab PM: Elaine Walker	Carrier Tracking No(s): FedEx	2303 2303	COC No: 2303W1AFEA10
Client Contact:	Phome: 956. 438.	Ø	E-Mail. M Elaine Walker@EurofinsET com	State of Origin Hawaii	Page Page	Page Page 1 of 1
Company AECOM	DISMA		Analysis	Analysis Requested	# qof	
Address: 1001 Bishop St. Suite 1600	Due Date Requested: see subcontract				Prese	
City Honolulu	TAT Requested (days): Rush - ASAP		ļ	_	ž \\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	B - NaOH N - None C - Zn Acetate O - AsNaO2
State, Zip: Hawaii 96813	Compliance Project: △ Yes △ No		ouethe		Z Z Z	
Phone: 808-954-4512 / 770-331-0794	PO #:		72550000000	/	9 1	
gaecom.com)/ Mark Kromis (mark.kromis@aecom.com)	₩O#-		(oN)	200	ers 15	
	Project #: 60697810		io se,		nledno L-EDA	DTA W - pH 4-5 DA Z - other (specify)
Site: RHSF	.#MOSS		) dsv		o io 1 et	
	4)	Sample Matrix Type (W=water S=solid.	bid Filtered from MS/N for DAI_Gu		ədmuM İsi	
Sample Identification	Sample Date Time G=	G=grab) BT=Thsue, A=Alr	9d		اده	Special Instructions/Note:
		Preservation Code:	¥XX		X	
AF-RHMW17-WGN01LF-2303W1	3/10/23 1335	G W	×		ო	
					T	
100						
					0.00	
		7				
		7	144 31/6/2	0		
					Ī	
Identification			Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month	be assessed if samples a	e retained lo	nger than 1 month)
Non-Hazard Flammable Skin Irritant Poison B	Briting Arts (1 2001 1202) - TAT State	ical	Return To Client Disposal By Lab Disposal Instructional Commissional C	Disposal By Lab     Disposal By Lab  Manager  Manage	Archive For	or Months
Deliverable Requested 1, II, III, IV, Other (specify)	4 report standard TAT. AECOM EQUIS EDD.	4 I above. Dob ste 1 EQUIS EDD.	age opecial instructions/QC nequire	allells bob doly ploject		
Empty Kit Relinquished by			Time.	Method of Shipment:		
Reinguished by SMNC 14 / AECOM	Date/Time: 12/10/13		Received by:	M S Date/Time:	^2 ~	Y35 Company
mrs Me c	Date/Time 3		Received by	Date/Time:	15/23	(DYS Company
l	Date/Time:	Company	Received by	Date/Time:	/	Company
Custody Seals Intact: Custody Seal No			Cooler Temperature(s) °C and Other Remarks.	er Remarks.	v	1/21/
						Ver 01/16/2019

Eurofins FGS, Seattle 5755 8th Street East Tacoma, WA 98424	Chair	Chain of Custody Record	ody Re	cord				💸 eurofins	S Erv onmen Tes rg America
Client Information Client Contact:	Sample   O. W. S	husey 1-775	Lab PM: Elaine \ E-Mail:	Valker	Lab PM: Elarne Walker E-Mail: M. Hanna Malkar@E. Indiaet Am	Carrier Tracking No(s) FedEx State of Origin	:(s):	COC No: 2303W1AFEA12 Page: Page:	12
Company AECOM	2	DISMA	2	A Valveille	Analysis F	Analysis Requested		;; qor	
Address: 1001 Bishop St. Surte 1600	Due Date Requested see subcontract							Preservation Codes: A - HCL M	
Gity Honolulu	TAT Requested (days): Rush	): Rush - ASAP		ļo			_	B - NaOH C - Zn Acetate	N - None O - AsNaO2 D - Na2O48
State, Zip: Hawaii 96813	Compliance Project: △ Yes	es ∆ No		nedła			/	E - NaHSO4	
Phone: 808-954-4512 / 770-331-0794	PO #:		(ON					G - Amchlor H - Ascorbic Acid	
Email: Watson Tanji (watson.tanji@aecom.com)/ Mark Kromis (mark.kromis@aecom.com)	:# OM		10 58	(on i		7			
Project Name: CTO N6274223F0104	Project #: 60697810		Y) əlq	o səx		1/2		OI	W - pH 4-5 Z - other (specify)
Site: RHSF	SSOW#:		ms2	) asv				t of c	
	8	Sample Type (C=comp,	Matrix erective water   H. Sevel on Sevel of Communication   H. Sevel of Communication	MSM mohi				ədmu <b>v</b> lsto	
Sample Identification	Sample Date Time	G=grab)	ŝ	oa >					Special Instructions/Note:
AF-RHMW17S-WGN01LF-2303W1	2/10/17	+	z s	×	o control of the cont			3	
AF-RHMW17S-WQEB01-2303W1		0	3	×					
		10 71	-	100/19					
			5		7				
					and the same of th		-		
Possible Hazard Identification Non-Hazard CFlammable Skin Intlant Poison B	СПКпомп	Radiological		Sample L	Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)  Return To Client  Disposal By Lab  Archive For  Mon	be assessed if sau	nples are ret	etained longer tha Archive For	1 1 month) Months
ssted          V Other (specify)	Prelim data (Level 1or2	)=see TAT above. Dol	. DoD Stage	Special In	Special Instructions/QC Requirements DOD QSM project.	ements DOD QSN	project.		
Empty Kit Relinquished by	Date.			Time.		Method of Shipment:	ipment:		
Relinquished by Shi ve W	Sate/10173	55h	Company AECOM	Received by	. Jan 62		Date/Time:	54	S ←E C
	Date/Time:	00 527	Company	Received by:	ed by: (1 cm)	- in the second	Date Time:	25 1045	,
Relinquished by	Date/Time:	3	Сотрапу	Received by	ed by:		Date/Time: /		Company
Custody Seals Intact: Custody Seal No			:	Cooler	Cooler Temperat <del>bre</del> (s) °C and Other Remarks:	er Remarks:		X18	, ,
									Ver 01/16/2019

#### FCU066 08 01.22 12

Eurofins Savannah Triage Checklist

Styrofoam Box

) UPS (

Dash

Other

Client Drop Off US Mail

□ Ice Type: Wet Dry GelPack None Other

BlueStreak

☐ Courier Tracking Number: _____

□ Uncorrected Cooler Temps (°C): 5./

□ Client: \tCom

Date: 03/-15-/-23 ---

□ Time: /045

☐ Checked By:_____

□ Number of Coolers:

☐ Cooler Type: Hard )

□ Received Via( Fed-Ex)(P)

☐ Thermometer ID: <u>CUIR 32</u>

☐ Correction Factor: ○ . ○

□ Other/ Comments:

☐ Foreign soil – Yes / No

Client: AECOM Job Number: 580-124763-1

Login Number: 124763 List Source: Eurofins Savannah List Number: 2 List Creation: 03/17/23 08:07 PM

Creator: Johnson, Corey M

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	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.	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.	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	

True

N/A

**Eurofins Seattle** 

Samples do not require splitting or compositing.

Residual Chlorine Checked.