PREPARED FOR

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

Generated 7/14/2023 12:12:21 PM

JOB DESCRIPTION

Red Hill - AFFF Assessment Sampling

ANALYTICAL REPORT

JOB NUMBER

580-129233-1

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 1

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Client: AECOM

Project/Site: Red Hill - AFFF Assessment Sampling

Laboratory Job ID: 580-129233-1

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Case Narrative

Client: AECOM Job ID: 580-129233-1

Project/Site: Red Hill - AFFF Assessment Sampling

Job ID: 580-129233-1

Laboratory: Eurofins Seattle

Narrative

CASE NARRATIVE

Client: AECOM
Project: Red Hill - AFFF Assessment Sampling
Report Number: 580-129233-1

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

Seven samples were received on 7/8/2023 9:30 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 0.2° 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-2307 (580-129233-1), AF-RHMW225401-WGN01B-2307 (580-129233-2), AF-RHMW02-WGN01LF-2307 (580-129233-3), AF-RHMW02-WGFD01LF-2307 (580-129233-4), AF-RHMW03-WGN01LF-2307 (580-129233-5), AF-RHMW06-WGN01LF-2307 (580-129233-6) and AF-RHMW10-WGN01LF-2307 (580-129233-7) were analyzed for glycols in accordance with EPA SW-846 Method 8015B - DAI. The samples were analyzed on 07/11/2023.

The continuing calibration verification (CCV) associated with batch 680-787708 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.

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: 580-129233-1

Project/Site: Red Hill - AFFF Assessment Sampling

Qualifiers

GC Semi VOA

 Qualifier
 Qualifier Description

 M
 Manual integrated compound.

 Q
 One or more quality control criteria failed.

 U
 Undetected at the Limit of Detection.

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
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)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
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
QC Quality Control

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)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Eurofins Seattle

7/14/2023

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Client: AECOM Job ID: 580-129233-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW04-WGN01LF-2307 Lab Sample ID: 580-129233-1

Date Collected: 07/05/23 10:25 Eas Cample 15: 500-125255-1

Date Received: 07/08/23 09:30

Method: SW846 8015C GLY	- Glycols- Direct Injection	(GC/FID)				
Δnalvto	Result Qualifier	1.00	DI Unit	D	Propared	

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Client: AECOM Job ID: 580-129233-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW225401-WGN01B-2307 Lab Sample ID: 580-129233-2

Date Collected: 07/03/23 14:15

Date Received: 07/08/23 09:30

Method: SW846 8015C GLY - Glycols- Direct Injection (GC/FID)										
	Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil F
	2-(2-Butoxyethoxy)ethanol	3.0	UQ	5.0	1.1	mg/L			07/11/23 17:16	

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Client: AECOM Job ID: 580-129233-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW02-WGN01LF-2307 Lab Sample ID: 580-129233-3

Date Collected: 07/05/23 10:35

Date Received: 07/08/23 09:30

Method: SW846 8015C GLY - Glycols- Direct Injection (GC/FID)									
Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
2-(2-Butoxyethoxy)ethanol	3.0	U Q	5.0	1.1	mg/L			07/11/23 17:39	1

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Client: AECOM Job ID: 580-129233-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW02-WGFD01LF-2307 Lab Sample ID: 580-129233-4

Date Collected: 07/05/23 10:35

Date Received: 07/08/23 09:30

od: 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 UMQ	5.0	1.1 mg/l			07/11/23 18:02	1

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Client: AECOM Job ID: 580-129233-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW03-WGN01LF-2307 Lab Sample ID: 580-129233-5

Date Collected: 07/05/23 13:20 Matrix: Water

Date Received: 07/08/23 09:30

	Method: SW846 801	5C 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 UMQ	5.0	1.1 mg/l			07/11/23 18:25	1

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Client: AECOM Job ID: 580-129233-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW06-WGN01LF-2307 Lab Sample ID: 580-129233-6

Date Collected: 07/05/23 13:15 Matrix: Water

Date Received: 07/08/23 09:30

Method: SW846 8015C GLY - Glycols- Direct Injection (GC/FID)									
Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
2-(2-Butoxyethoxy)ethanol	3.0	UMQ	5.0	1.1	mg/L			07/11/23 18:48	1

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Client: AECOM Job ID: 580-129233-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW10-WGN01LF-2307 Lab Sample ID: 580-129233-7

Date Collected: 07/05/23 14:25

Date Received: 07/08/23 09:30

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	3.0 UMQ	5.0	1.1 mg/L			07/11/23 19:11	1

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QC Sample Results

Client: AECOM Job ID: 580-129233-1

Project/Site: Red Hill - AFFF Assessment Sampling

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

Lab Sample ID: MB 680-787708/9 **Client Sample ID: Method Blank Prep Type: Total/NA**

Matrix: Water

Analysis Batch: 787708

MB MB

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
2-(2-Butoxyethoxy)ethanol	3.0	U	5.0	1.1	mg/L			07/11/23 14:33	1

Lab Sample ID: LCS 680-787708/5 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA

Analysis Batch: 787708

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
2-(2-Butoxyethoxy)ethanol	20.0	22.9		mg/L	_	115	50 - 150	

Lab Sample ID: LCSD 680-787708/6 **Client Sample ID: Lab Control Sample Dup** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 787708

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
2-(2-Butoxyethoxy)ethanol	20.0	18.3		mg/L		91	50 - 150	23	50

7/14/2023

Matrix: Water

Lab Sample ID: 580-129233-1

Lab Sample ID: 580-129233-2

Lab Sample ID: 580-129233-3

Lab Sample ID: 580-129233-4

Lab Sample ID: 580-129233-5

Lab Sample ID: 580-129233-6

Lab Sample ID: 580-129233-7

Client Sample ID: AF-RHMW04-WGN01LF-2307

Date Collected: 07/05/23 10:25 Date Received: 07/08/23 09:30

Client: AECOM

Dilution Batch Ratch Batch Prepared Method or Analyzed **Prep Type** Type Run **Factor** Number Analyst Lab Total/NA 8015C GLY 787708 DBM EET SAV 07/11/23 16:52 Analysis

Client Sample ID: AF-RHMW225401-WGN01B-2307

Date Collected: 07/03/23 14:15

Date Received: 07/08/23 09:30

Batch Batch Dilution Batch **Prepared Prep Type** Type Method Run **Factor Number Analyst** Lab or Analyzed Total/NA Analysis 8015C GLY 787708 DBM EET SAV 07/11/23 17:16

Client Sample ID: AF-RHMW02-WGN01LF-2307

Date Collected: 07/05/23 10:35

Date Received: 07/08/23 09:30

Batch Batch Dilution Batch Prepared **Prep Type** Method **Factor Number Analyst** or Analyzed Type Run Lab 07/11/23 17:39 Total/NA Analysis 8015C GLY 787708 DBM **EET SAV**

Client Sample ID: AF-RHMW02-WGFD01LF-2307

Date Collected: 07/05/23 10:35

Date Received: 07/08/23 09:30

Batch Batch Dilution Batch Prepared **Prep Type** Method **Number Analyst** or Analyzed Type Run **Factor** Lab Analysis 8015C GLY 787708 DBM EET SAV 07/11/23 18:02 Total/NA

Client Sample ID: AF-RHMW03-WGN01LF-2307

Date Collected: 07/05/23 13:20

Date Received: 07/08/23 09:30

Batch Batch Dilution Batch Prepared Method Number Analyst or Analyzed **Prep Type** Type Run Factor Lab 07/11/23 18:25 Total/NA Analysis 8015C GLY 787708 DBM **EET SAV**

Client Sample ID: AF-RHMW06-WGN01LF-2307

Date Collected: 07/05/23 13:15

Date Received: 07/08/23 09:30

Dilution Batch Batch Ratch Prepared **Prep Type** Type Method Run **Factor Number Analyst** or Analyzed Lab EET SAV 07/11/23 18:48 Total/NA Analysis 8015C GLY 787708 DBM

Client Sample ID: AF-RHMW10-WGN01LF-2307

Date Collected: 07/05/23 14:25

Date Received: 07/08/23 09:30

Batch Batch Dilution Batch **Prepared** Method or Analyzed Prep Type Type Run **Factor Number Analyst** Lab 8015C GLY 07/11/23 19:11 Total/NA Analysis 787708 DBM **EET SAV**

Laboratory References:

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

Eurofins Seattle

Accreditation/Certification Summary

Client: AECOM Job ID: 580-129233-1

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.

ANAB		rogram lept. of Defense ELAP	Identification Number	Expiration Date 09-22-24
The following analyte the agency does not	•	ort, but the laboratory is not	certified by the governing authority.	This list may include analytes for wh
Analysis Method	Prep Method	Matrix	Analyte	

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Sample Summary

Client: AECOM Job ID: 580-129233-1

Project/Site: Red Hill - AFFF Assessment Sampling

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-129233-1	AF-RHMW04-WGN01LF-2307	Water	07/05/23 10:25	07/08/23 09:30
580-129233-2	AF-RHMW225401-WGN01B-2307	Water	07/03/23 14:15	07/08/23 09:30
580-129233-3	AF-RHMW02-WGN01LF-2307	Water	07/05/23 10:35	07/08/23 09:30
580-129233-4	AF-RHMW02-WGFD01LF-2307	Water	07/05/23 10:35	07/08/23 09:30
580-129233-5	AF-RHMW03-WGN01LF-2307	Water	07/05/23 13:20	07/08/23 09:30
580-129233-6	AF-RHMW06-WGN01LF-2307	Water	07/05/23 13:15	07/08/23 09:30
580-129233-7	AF-RHMW10-WGN01LF-2307	Water	07/05/23 14:25	07/08/23 09:30

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5755 8th Street East Tacoma, WA 98424

Chain of Custody Record

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5755 8th Street East Tacoma, WA 98424

Chain of Custody Record

eurofins | Environment Testing America

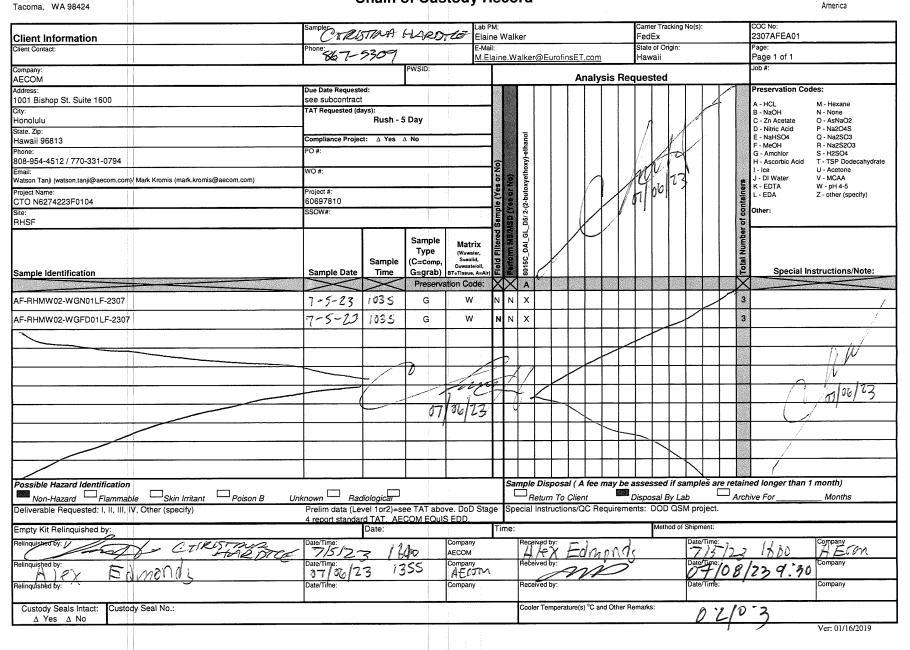
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💸 eurofins

Chain of Custody Record

Eurofins FGS, Seattle

5755 8th Street East



5755 8th Street East Tacoma, WA 98424

Chain of Custody Record

Client Information	Sampler: Lab Ph CHRISTIANA HARISTICE E-Mail: Phone: E-Mail:											Carri Fed		king N	o(s):			COC No: 2307AFEA02	
Client Contact:	Phone: \$61-53					Walke	er@Eu	ırofins	sFT.c	om		State	of Ori	gin:				Page: Page 1 of 1	
Company:	104: 20	<u> </u>	PWSID:		T													Job #:	
AECOM					19000 Inc	ronida			An	alys	is Re	ques	sted				Downson		
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City:	TAT Requested (da				1 1							1						A - HCL B - NaOH	M - Hexane N - None
Honolulu		Rush - 5	Day									ı	/	1				C - Zn Acetate	O - AsNaO2
State, Zip: Hawaii 96813	Compliance Projec	t A Yes A	No	 	- 1	2						1/	1 1	- 1	1			D - Nitric Acid E - NaHSO4	P - Na2O4S Q - Na2SO3
Phone:	PO #:			1 :	- 1	elha						$\perp /$		\mathcal{A}				F - MeOH G - Amchlor	R - Na2S2O3 S - H2SO4
808-954-4512 / 770-331-0794					a	1						1/	M	^				H - Ascorbic Acid	T - TSP Dodecahydrate
Email: Watson Tanji (watson.tanji@aecom.com)/ Mark Kromis (mark.kromis@aecom.com)	WO #:				٦žI.	, leg				1	N	12	UV	$\neg \lambda$	$^{\prime}$ h			I - Ice J - DI Water	U - Acetone V - MCAA
Project Name:	Project #:				- al	Ž ×				A	.\\	V	\searrow	14	- 1		ers	K - EDTA	W - pH 4-5
CTO N6274223F0104	60697810					o jng-z					V	// (1	\			is i	L - EDA	Z - other (specify)
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Sample Identification	Sample Date	Time	G=grab)	BT=Tissue, A=Air	果	some street	2500 (200)(200)(2	0.500000			1000	6.00 50000000		0.0000000000000000000000000000000000000	200000		Ę,	Special I	nstructions/Note:
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Possible Hazard Identification				<u> </u>	4	Samo	le Dis	nosa	I / A f	ee m	av he	25565	sed i	f san	nles	are re	taine	l ed longer than 1	month)
Non-Hazard Flammable Skin Irritant Poison B	Unknown	Radiolo	-11		ľ		Returr					Dispos			pics			ve For	Months
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Custody Seals Intact: Custody Seal No.:						Cod	oler Ten	nperati	ure(s) °	C and	Other R	emarks	:				16		
Δ Yes Δ No															0	2	<u>/レ</u>	<u> </u>	
																7	_		Ver: 01/16/2019

5755 8th Street East Tacoma, WA 98424

Chain of Custody Record

eurofins Environment Testing America

	Sampler: A / //	1. 11	. /	 	Lab PM:							- 1	Carrier 1	Tracking	No(s):			COC No			
Client Information	Nax	e ne	goth	.]	Elaine		er						FedEx		, (-, -			2307A			
Client Contact:	Phone: (D4)	-873	052		E-Mail: M.Elair	ne Wa	alkero	@Fur	nfinsF	T con	า		State of Hawai	Origin:				Page: Page 1	of 1		
Company:	11-1		PWSID:		T								-					Job #:	0, 1		
AECOM Address:	In		<u> </u>			A CONTRACTOR				Anal	ysis	Req	este	d							
1001 Bishop St. Suite 1600	Due Date Requeste see subcontract						1			İ			ı						ration Co	des:	
City: Honolulu	TAT Requested (da	iys): Rush - 5	i Dav						-	-		-			3			A - HCL B - NaO C - Zn A		M - Hexa N - None	
State, Zip: Hawaii 96813	Compliance Projec				-		lone							-				D - Nitrio	: Acid	O - AsNa P - Na2O O - Na2S	4S
Phone: 808-954-4512 / 770-331-0794	PO #:						ry)-eth											F - MeO G - Amo		R - Na2S S - H2SO	203 4
Email: Watson Tanji (watson.tanji@aecom.com)/ Mark Kromis (mark.kromis@aecom.com)	WO #:	*******				3	(yetho)									4		I - Ice J - DI W		U - Aceto V - MCAA	
Project Name: CTO N6274223F0104	Project #: 60697810					S OF P	2-buto										tainer	K - EDT/ L - EDA	Ą	W - pH 4- Z - other	
Site: RHSF	SSOW#:				Samo	SD (%	05/2-(1			of cont				
Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	THE ACCUPANCE AND DESCRIPTION OF	solid, O oli, & A::Air) IL	Rertorm MS/M	8015C_DAI_GL_D5/ 2-{2-buloxyethoxy}-ethanol										Total Number		ipecial l	nstruction	ns/Note:
		\sim	Preserva	tion Cod	e: X	\mathbb{Z}	Α	1									\supseteq		\rightarrow		
AF-RHMW06-WGN01LF-2307	715/13	13/5	G	W	N	N	х		************		-					ı	3				
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Possible Hazard Identification											may L	e as	sesse	d if sa	mple:			ed longe	r than 1	month)	
Non-Hazard Flammable Skin Irritant Poison B	Unknown	Radiolo	gical				[⊥] Re	turn T	o Clie	ent		Dis	oosal	By Lai	5		Archi	ve For_	****	Months	
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Empty Kit Relinquished by:		Date:			Ti	me:							Me	thod of	Shipme	nt:					
Relinquished by:	Date/Time:	1 3		Company AECOM	-			ed by:	m	da .	D	06	200		Date/I	ime:	2	14	40	Company	101
Relinquished by: Miramda Deharmo	Date/Time: 123	-	5	Company AE(O)	Ŋ	1	Receiv				7		P	-0	Date/		28/	23 1	09:2	Company	~
Relinquished by:	Date/Time:			Company	-	1	Receiv	ed by:	-						Date/1	ime:				Company	
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Eurofins FGS, Seattle																	i ourofine	• 1
5755 8th Street East		(Chain (of Cus	stody l	Reco	ord										🔆 eurofins	Environment Testing
Tacoma, WA 98424		•			,					é	J.Mi		/ /	-		שוכ	4947	America MD
		Sampler:	in M			PM:			-	,	C	Carrier T	racking	No(s):	<u> </u>	<u>,</u>	COC No:	
Client Information Client Contact:						aine Wall	ker					edEx					2307WAFEA03 Page:	
		808	987-3	201	<u>M.</u>	Elaine.W	/alker@	Eurofins	sET.co	<u>om</u>		lawaii					Page 1 of 1	
Company: AECOM				PWSID:					Ana	alysis	Requ	ıeste	d				Job #:	
Address: 1001 Bishop St. Suite 1600		Due Date Requeste see subcontract	t													1	Preservation Cod	des: M - Hexane
City: Honolulu		TAT Requested (da	ays): Rush - 5	Day											Λ		B - NaOH C - Zn Acetate	N - None O - AsNaO2
State, Zip: Hawaii 96813		Compliance Projec	t: Δ Yes Δ	No		d []	hanol			$\sqrt{}$				И			D - Nitric Acid E - NaHSO4 F - MeOH	P - Na2O4S Q - Na2SO3 R - Na2S2O3
Phone: 808-954-4512 / 770-331-0794		PO #:					oxy)-e1				2		$/\!\!/$				G - Amchlor H - Ascorbic Acid	S - H2SO4 T - TSP Dodecahydrate
)/ Mark Kromis (mark.kromis@aecom.com)	WO #:				S or N	oxyeth			To		اخ				373	I - Ice J - DI Water K - EDTA	U - Acetone V - MCAA W - pH 4-5
Project Name: CTO N6274223F0104		Project #: 60697810				2 2	2-but			7	10 S	$\langle \top$	7			tain	L - EDA	Z - other (specify)
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Sample Identification		Sample Date	Time	G=grab)	BT=Tissue, A=A	TITLES SERVE MANAGEM	A DESCRIPTION OF THE				10.000					₽	Special In	nstructions/Note:
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Miranda	Detamo	Date/Time: F15/23	3SS ₁₇₇	3 5	Company AFO	cm	Receive		W)	n	>			Date ()	7708	1/2	309:	Company
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