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PREPARED FOR

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

Generated 4/21/2023 10:03:38 AM

JOB DESCRIPTION

Red Hill - AFFF Assessment Sampling

ANALYTICAL REPORT

JOB NUMBER

580-126083-1



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

Generated 4/21/2023 10:03:38 AM

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: 580-126083-1

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Case Narrative

Client: AECOM Job ID: 580-126083-1

Project/Site: Red Hill - AFFF Assessment Sampling

Job ID: 580-126083-1

Laboratory: Eurofins Seattle

Narrative

CASE NARRATIVE

Client: AECOM
Project: Red Hill - AFFF Assessment Sampling
Report Number: 580-126083-1

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

Three samples were received on 4/15/2023 8:45 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 5.3° 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-RHMW12A-WGN01LF-2304W2 (580-126083-1), AF-RHMW12A-WGFD01LF-2304W2 (580-126083-2) and AF-RHMW225401-WGN01B-2304W2 (580-126083-3) were analyzed for glycols in accordance with EPA SW-846 Method 8015B - DAI. The samples were analyzed on 04/18/2023 and 04/19/2023.

No 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: 580-126083-1

Project/Site: Red Hill - AFFF Assessment Sampling

Qualifiers

GC Semi VOA

Qualifier **Qualifier Description**

Undetected at the Limit of Detection.

Glossary

Appreviation	These commonly used appreviations 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

Duplicate Error Ratio (normalized absolute difference) DER

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) Minimum Detectable Concentration (Radiochemistry) MDC

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

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)

RLReporting 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)

Too Numerous To Count **TNTC**

Eurofins Seattle

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Client Sample Results

Client: AECOM Job ID: 580-126083-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW12A-WGN01LF-2304W2 Lab Sample ID: 580-126083-1

Date Collected: 04/13/23 12:30 Matrix: Water

Date Received: 04/15/23 08:45

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

Analyte	Result Qualifier	LOQ	DL Unit	D	Prepared	Analyzed	Dil Fac
2-(2-Butoxyethoxy)ethanol	30 U	5.0	1 1 mg/l			04/18/23 23:31	1

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Client Sample Results

Client: AECOM Job ID: 580-126083-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW12A-WGFD01LF-2304W2 Lab Sample ID: 580-126083-2

Date Collected: 04/13/23 12:30 Matrix: Water

Date Received: 04/15/23 08:45

Analyte	Result Qualifier	LOQ	DL Unit	D	Prepared	Analyzed	Dil Fac
2-(2-Butoxyethoxy)ethanol	30 U	5.0	1.1 mg/l			04/19/23 00:41	1

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Client Sample Results

Client: AECOM Job ID: 580-126083-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW225401-WGN01B-2304W2 Lab Sample ID: 580-126083-3

Date Collected: 04/13/23 09:00 Matrix: Water

Date Received: 04/15/23 08:45

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac	
2-(2-Butoxyethoxy)ethanol	3.0	U	5.0	1 1	ma/l			04/19/23 01:04	1	

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Client: AECOM Job ID: 580-126083-1

Project/Site: Red Hill - AFFF Assessment Sampling

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

Lab Sample ID: MB 680-774076/9 Client Sample ID: Method Blank Prep Type: Total/NA

Matrix: Water

Analyte

Analysis Batch: 774076

2-(2-Butoxyethoxy)ethanol

MB MB Result Qualifier LOQ DL Unit Analyzed Dil Fac D Prepared 5.0 1.1 mg/L 04/18/23 20:25 3.0 U

Lab Sample ID: LCS 680-774076/5 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA

Analysis Batch: 774076

Spike LCS LCS %Rec Added Result Qualifier D %Rec Limits Unit 20.0 50 - 150 2-(2-Butoxyethoxy)ethanol 23.1 mg/L 115

Lab Sample ID: LCSD 680-774076/6 Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Matrix: Water

Analysis Batch: 774076

Spike LCSD LCSD %Rec RPD Added Result Qualifier Limits RPD Analyte Unit %Rec Limit 2-(2-Butoxyethoxy)ethanol 20.0 20.9 105 50 - 150 mg/L

Lab Sample ID: 580-126083-1 MS Client Sample ID: AF-RHMW12A-WGN01LF-2304W2 Prep Type: Total/NA

Matrix: Water

Analysis Batch: 774076

Spike MS MS %Rec Sample Sample Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits 2-(2-Butoxyethoxy)ethanol 3.0 U 20.0 18.2 mg/L 91 50 - 150

Lab Sample ID: 580-126083-1 MSD Client Sample ID: AF-RHMW12A-WGN01LF-2304W2

Matrix: Water

Analysis Batch: 774076

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 20.0 21.2 106 mg/L 50 - 150 15 50

Eurofins Seattle

4/21/2023

Prep Type: Total/NA

Lab Chronicle

Client: AECOM Job ID: 580-126083-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW12A-WGN01LF-2304W2

Lab Sample ID: 580-126083-1 **Matrix: Water**

Date Collected: 04/13/23 12:30 Date Received: 04/15/23 08:45

Batch Dilution **Batch** Batch Prepared Method Number Analyst or Analyzed **Prep Type** Type Run **Factor** Lab 04/18/23 23:31 Total/NA Analysis 8015C GLY 774076 GEM EET SAV

Client Sample ID: AF-RHMW12A-WGFD01LF-2304W2

Lab Sample ID: 580-126083-2

Matrix: Water

Date Collected: 04/13/23 12:30 Date Received: 04/15/23 08:45

Batch **Batch Dilution** Batch Prepared **Prep Type** Type Method Run Factor Number Analyst Lab or Analyzed 04/19/23 00:41 Total/NA Analysis 8015C GLY 774076 GEM EET SAV

Client Sample ID: AF-RHMW225401-WGN01B-2304W2

Lab Sample ID: 580-126083-3 Date Collected: 04/13/23 09:00 **Matrix: Water**

Date Received: 04/15/23 08:45

Batch **Batch** Dilution Batch **Prepared** Method or Analyzed **Prep Type** Type **Factor Number Analyst** Run Lab 04/19/23 01:04 Total/NA Analysis 8015C GLY 774076 GEM **EET SAV**

Laboratory References:

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

4/21/2023

Accreditation/Certification Summary

Client: AECOM Job ID: 580-126083-1

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

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Sample Summary

Client: AECOM Job ID: 580-126083-1

Project/Site: Red Hill - AFFF Assessment Sampling

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-126083-1	AF-RHMW12A-WGN01LF-2304W2	Water	04/13/23 12:30	04/15/23 08:45
580-126083-2	AF-RHMW12A-WGFD01LF-2304W2	Water	04/13/23 12:30	04/15/23 08:45
580-126083-3	AF-RHMW225401-WGN01B-2304W2	Water	04/13/23 09:00	04/15/23 08:45

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Client Information	Sampler Shirms	tot	Lab PM: Elaine Walker	Nalker				Carrier Tr FedEx	Carrier Tracking No(s): FedEx	s):	COC No. 2304W2AFEA05	AFEA05		
Client Contact:	Phone: -593-660"		E-Mail: M Elaın	e Walke	r@Eurofi	E-Mail: M Elaine Walker@EurofinsET com		State of Origin. Hawaii	nigin.		Page: Page 1 of	f 1		
Company AECOM	3	PWSID:	-			Analy	sis Rec	Analysis Requested	_		.# qor			
Address: 1001 Bishop St. Surte 1600	Due Date Requested: see subcontract		100 Pro							\rightarrow	Preservat A - HCL	Code	is: M - Hexane	Ì
City Honolulu	TAT Requested (days) Rush	Rush - A OAR 57 - 12	E TO	ĮC						_	B - NaOH C - Zn Acetate		N - None O - AsNaO2	
State, Zip: Hawaii 96813	Compliance Project: △ Yes	ON A		ethano					/		E - NaHSO4		F - Na2U4S Q - Na2SO3 R - Na2SO3	
Phone: 808-954-4512 / 770-331-0794	PO #:		(0)			<u> </u>	· · · · · · · · · · · · · · · · · · ·		_		G - Amchlor H - Ascorbic Acid		S - H2SO4 T - TSP Dodecahydrate	
Email Watson Tanji (watson.tanji@aecom.com)/ Mark Kromis (mark.kromis@aecom.com)	#OM		10 58	(oN)				/					U - Acetone V - MCAA	
Project Name: CTO N6274223F0104	Project #: 60697810		γ) əlc	ıo sə,			<u> </u>					> N	W - pH 4-5 Z - other (specify)	
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Non-Hazard Flammable Skin Irritant Poison B	Unknown	∏ Radiological		`[]	Return To Client	Client		Disposal By Lab	By Lab		Archive For_		Months	
ested I II III IV Other (specify)	Prelim data 4 report star	(Level 1or2)=see TAT above. DoD Stage ndard TAT AECOM EQuIS EDD	DoD Stage DD	Special	Instructio	Special Instructions/QC Requirements DOD QSM project	aduireme	nts DO	D QSM	oroject.				
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Chain of Custody Record

Eurofins FGS, Seattle 5755 8th Street East Tacoma WA 98424	ច	nain o	f Cust	Chain of Custody Record	cord								💃 eurofins	យ៍	onmen. Testing e. Ga
Client Information	Sampler Cont	, j	075	Lab PM: Elaine	Lab PM: Elaine Walker				Camie FedE	Carrier Tracking No(s): FedEx	No(s):		COC No: 2304W2AFEA07	EA07	
Client Contact:	Phone:		, ,	E-Mail. M Ela	E-Mail. M Elaine.Walker@EurofinsET com	er@Euro	insET co	Ę	State of (Hawaii	State of Origin Hawaii			Page: Page 1 of 1		
Company AECOM			PWSID				Ana	ysis R	Analysis Requested	ted			Job #:		
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	TAT Requested (day:	s): Rush - ASAP			lc		1			No.	+		B - NaOH C - Zn Acetate		N - None O - AsNaO2
State, Zip Hawaii 96813	Compliance Project:	∆ Yes	ON O		ethano						_	10. J. V. 10.	D - Nitric Acid E - NaHSO4 F - MeOH		1a2045 1a2S03 1a2S03
Phone: 808-954-4512 / 770-331-0794	PO #:			. 140							_		G - Amchlor H - Ascorbic A		S - H2SO4 T - TSP Dodecahydrate
om)/ Mark Kromis (mark.kromis@aecom.com)	:# OM				(oN 1					_			I - Ice J - DI Water		U - Acetone V - MCAA
	Project #: 60697810			XV 919	o sey								K - EDIA L - EDA	1- M	w - pH 4-5 Z - other (specify)
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	Eurofins Savannah Triage Checklist
	Date 415/23
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	□ Number of Coolers:
-	□ Cooler Type: Hard Styrofoam Box
	□ Ice Type: Wet Dry GelPack None Other —
	Received Via: Fed-Ex (SAT) UPS () Bus Client Drop Off US Mail Courier
	BlueStreak Dash Other
	Courier Tracking Number:
	Client: PCOM
	□ Thermometer ID: <u>CUIR-32</u>
	□ Uncorrected Cooler Temps (°C):
	□ Correction Factor ○ · ·
	□ Corrected Cooler Temps (°C); S 9

Eurofins FGS, Seattle 5755 8th Street East Tacoma, WA 98424

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Client Information	Sampler Shirms		Lab PM: Elaine Walker	ē		FedEx		2304W2AFEA05	
Client Contact:	Phone: -593-6607		E-Mail: M Elaine W	alker@	E-Mail: M Elaine Walker@EurofinsET com	State of Origin Hawaii		Page: Page 1 of 1	
Company AECOM	PW	PWSID:			Analysis Requested	equested	***	Job #:	
Address. 1001 Bishop St. Suite 1600	Due Date Requested see subcontract	10 To	<u> </u>					ĕ	es. M - Hexane
City Honolulu	TAT Requested (days): Rush - ASAR	12.	k	lc				B - NaOH C - Zn Acetate	N - None O - AsNaO2
State, Zip: Hawaii 96813	Compliance Project: Δ Yes Δ No		1	oueyja					P - Na2045 Q - Na2SO3 R - Na2SSO3
Phone: 808-954-4512 / 770-331-0794	PO #:		(0)	-(ʎxou				70	S - H2SO4 T - TSP Dodecahydrate
Email: Watson Tanji (watson.tanji@aecom.com)/ Mark Kromis (mark.kromis@aecom.com)	.# OM			oxyet	;;;;;;;;				U - Acetone V - MCAA
Project Name: CTO N6274223F0104	Project #: 60697810			-(S-pn			nleino	K-EDTA L-EDA	W - pH 4-5 Z - other (specify)
Site: RHSF	SSOW#:	:		z /9a -	1	4))	Other	
	Sample	Sample Matrix Type (W=water S=solid. O=waste/oil, O=waste/oil.)	eld Filtered ASM myore	I PEC_DAL_GL			otal Number		:
Sample Identification	Sample Date IIMe G	G=grab) BT=Thsue, A=Alr) Preservation Code:	ž X	18 ≪			īΧ	Special III	Special instructions/Note
AF-RHMW12A-WGN01LF-2304W2	cery Edelp	N 0	z	×		Control of the Contro	(e		
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Identification			Saı	nple Di	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	e assessed if sam	nples are retain	etained longer than 1	(month)
Other (specify)	Prelim data (Level 1or: 4 report standard TAT	AT above. DoD S M FOulS FDD		scial Ins	Special Instructions/QC Requirements	ments DOD QSM project.	project.	5	
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Eurofins FGS, Seattle 5755 8th Street East Tacoma WA 98424		of C	ly Reco	p.		Carrier Trackir	n Mo(e)	🔆 eurofins	Ins Er roame. Tuthre	. Г
Client Information	Sampler	ナンコ	Elaine Walker	ker		FedEx	ig ivo(s).	2304W2AFEA07	EA07	
Client Contact:	Phone:	Z \ \	E-Mail: M Elaine V	/alker@Eurc	E-Mail: <u>M Elaine Walker@EurofinsET com</u>	State of Origin Hawaii	-	Page: Page 1 of 1		
Company AECOM		PWSID:			Analysis	Analysis Requested		Job #:		
Address: 1001 Bishop St. Suite 1600	Due Date Requested see subcontract	c412123	1909					Preservation Codes:		
City Honolulu	TAT Requested (days) ⁻ Rush -	Rush-ASKP 5-0 AY		lc	t		- Company of the Comp	B - NaOH C - Zn Acetate		
State, Zp. Hawaii 96813	Compliance Project: A Yes	o No		oueqte				E - NaHSO4		
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om)/ Mark Kromis (mark.kromis@aecom.com)	MO#-								U - Acetone V - MCAA	<u> </u>
Project Name: CTO N6274223F0104	Project #: 60697810						****	ntain L-EDA	W - pH 4-5 Z - other (specify)	
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Sample identification	Sample Date	Preservation Code:	<u>۔</u> حالہ	_					special instructions/Note	T
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/ 770-331-0794	PO #-					-	\		G - Amchlor H - Ascorbic Acid	S - H2SO4	ate
Email: Watson Tanji (watson tanji@aecom.com)/ Mark Kromis (mark.kromis@aecom.com)	WO #:			(on							
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gaecom.com)/ Mark Kromis (mark.kromis@aecom.com)	-# OM			(ON 1	ιοχλει						
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