44

ANALYTICAL REPORT

PREPARED FOR

Attn: Terri Choy AECOM 1001 Bishop Street Honolulu, Hawaii 96813 Generated 5/3/2023 11:47:48 AM

JOB DESCRIPTION

Red Hill - AFFF Assessment Sampling

JOB NUMBER

580-126569-1

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

Generated 5/3/2023 11:47:48 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: 580-126569-1

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Case Narrative

Client: AECOM Job ID: 580-126569-1

Project/Site: Red Hill - AFFF Assessment Sampling

Job ID: 580-126569-1

Laboratory: Eurofins Seattle

Narrative

CASE NARRATIVE

Client: AECOM
Project: Red Hill - AFFF Assessment Sampling
Report Number: 580-126569-1

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 4/26/2023 10:30 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 0.6° 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-RHMW225401-WGN01B-2304W3 (580-126569-1), AF-RHMW17D-WGN01LF-2304W3 (580-126569-2) and AF-RHMW17D-WQFB01-2304W3 (580-126569-3) were analyzed for glycols in accordance with EPA SW-846 Method 8015B - DAI. The samples were analyzed on 05/01/2023 and 05/02/2023.

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: 580-126569-1

Project/Site: Red Hill - AFFF Assessment Sampling

Qualifiers

GC Semi VOA

Qualifier Qualifier Description

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 decimate that the requit is reported an a dry weight basis

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

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Client Sample Results

Client: AECOM Job ID: 580-126569-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW225401-WGN01B-2304W3 Lab Sample ID: 580-126569-1

Date Collected: 04/21/23 08:50 Matrix: Water

Date Received: 04/26/23 10:30

Analyte	Result Quali	fier LOQ	DL Unit	D	Prepared	Analyzed	Dil Fac
2-(2-Butoxyethoxy)ethanol	30 U	5.0	1.1 mg/l			05/01/23 23:30	1

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Client Sample Results

Client: AECOM Job ID: 580-126569-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW17D-WGN01LF-2304W3 Lab Sample ID: 580-126569-2

Date Collected: 04/20/23 15:25 Matrix: Water

Date Received: 04/26/23 10:30

Analyte	Result	Qualifier	LOQ	DL U	Jnit	D	Prepared	Analyzed	Dil Fac	
2-(2-Butoxyethoxy)ethanol	3.0	U	5.0	11 n	na/l			05/01/23 23:54	1	

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Client Sample Results

Client: AECOM Job ID: 580-126569-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW17D-WQFB01-2304W3 Lab Sample ID: 580-126569-3

Date Collected: 04/20/23 13:15 Matrix: Water

Date Received: 04/26/23 10:30

Analyte	Result	Qualifier	LOQ	DL U	nit	D	Prepared	Analyzed	Dil Fac	
2-(2-Butoxyethoxy)ethanol	3.0	U	5.0	11 m	na/l			05/02/23 00:17	1	

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QC Sample Results

Client: AECOM Job ID: 580-126569-1

Project/Site: Red Hill - AFFF Assessment Sampling

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

Lab Sample ID: MB 680-776218/9 Client Sample ID: Method Blank Prep Type: Total/NA

Matrix: Water

Analysis Batch: 776218

MB MB

Result Qualifier LOQ DL Unit Analyzed Dil Fac Analyte D Prepared 5.0 1.1 mg/L 05/01/23 14:59 2-(2-Butoxyethoxy)ethanol 3.0 U

Lab Sample ID: LCS 680-776218/5

Matrix: Water

Analysis Batch: 776218

Spike LCS LCS %Rec Added Result Qualifier Unit D %Rec Limits 20.0 18.0 50 - 150 2-(2-Butoxyethoxy)ethanol mg/L 90

Lab Sample ID: LCSD 680-776218/6

Matrix: Water

Analysis Batch: 776218

Spike LCSD LCSD %Rec RPD Added Result Qualifier Limits RPD Analyte Unit %Rec Limit 2-(2-Butoxyethoxy)ethanol 20.0 17.6 88 50 - 150 mg/L

Lab Sample ID: 580-126569-3 MS

Matrix: Water

Analysis Batch: 776218

Spike MS MS %Rec Sample Sample Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits 2-(2-Butoxyethoxy)ethanol 3.0 U 20.0 20.7 mg/L 103 50 - 150

Lab Sample ID: 580-126569-3 MSD

Matrix: Water

Analysis Batch: 776218

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 18.4 92 mg/L 50 - 150 12 50

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Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Client Sample ID: AF-RHMW17D-WQFB01-2304W3

Client Sample ID: AF-RHMW17D-WQFB01-2304W3

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

5/3/2023

Lab Chronicle

Client: AECOM Job ID: 580-126569-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW225401-WGN01B-2304W3

Lab Sample ID: 580-126569-1

Matrix: Water

Date Collected: 04/21/23 08:50 Date Received: 04/26/23 10:30

Batch Dilution Batch **Batch** Prepared Method Number Analyst or Analyzed **Prep Type** Type Run **Factor** Lab 05/01/23 23:30 Total/NA Analysis 8015C GLY 776218 GEM EET SAV

Client Sample ID: AF-RHMW17D-WGN01LF-2304W3 Lab Sample ID: 580-126569-2

Date Collected: 04/20/23 15:25 **Matrix: Water**

Date Received: 04/26/23 10:30

Batch **Batch Dilution** Batch Prepared **Prep Type** Type Method Run **Factor** Number Analyst Lab or Analyzed Total/NA Analysis 8015C GLY 776218 GEM EET SAV 05/01/23 23:54

Client Sample ID: AF-RHMW17D-WQFB01-2304W3 Lab Sample ID: 580-126569-3

Date Collected: 04/20/23 13:15 **Matrix: Water**

Date Received: 04/26/23 10:30

Batch **Batch** Dilution Batch **Prepared** Method or Analyzed **Prep Type** Type **Factor Number Analyst** Run Lab 05/02/23 00:17 Total/NA Analysis 8015C GLY 776218 GEM **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: 580-126569-1

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	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

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Sample Summary

Client: AECOM Job ID: 580-126569-1

Project/Site: Red Hill - AFFF Assessment Sampling

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-126569-1	AF-RHMW225401-WGN01B-2304W3	Water	04/21/23 08:50	04/26/23 10:30
580-126569-2	AF-RHMW17D-WGN01LF-2304W3	Water	04/20/23 15:25	04/26/23 10:30
580-126569-3	AF-RHMW17D-WQFB01-2304W3	Water	04/20/23 13:15	04/26/23 10:30

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Chain of Custody Record

1	Environment Testing America

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Client Information Client Contact:	Elaine V					Carrier Tracki Valker FedEx							10(3).			230	4W3AFE	A07					
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Company: AECOM			PWSID:						An	aly	sis R	lequ	sted					Job#					
Address: 1001 Bishop St. Suite 1600	Due Date Reques see subcontrac									- 1			Į.					Pres A - H	ervation		s; M - Hexer		
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Siate, Zip: Hawali 96813	Compilance Proje	ct: Δ Yes	A No			Para	-	T					\mathbb{Z}	$ \mathcal{E} $	4			E - N	litric Acid IaHSO4 IaOH	(P - Na204 2 - Na2St	D3	
Phone: 808-954-4512 / 770-331-0794	PO#:					oxy)-e],	1	1	74	21	12		G.A H·A	mehler scorbic Ac	5	R - N±2S2 S - H2SO4 T - TSP D	4	Irate
Email: Watson Tanji (watson.lanji@aecom.com)/ Mark Kromis (mark.kromis@aecom.com)	W0#:				Table 1	oxyet				\downarrow	1			-	ا ر				Water	١	J - Acelos / - MCAA		
Project Name: CTO N6274223F0104	Project #: 60697810				111	(Z-but				4		\forall	1	1	1			K-E			N - pH 4-: 2 - other (:		
Site: RHSF	SSOW#:					D\$1.2		/		\not	1			_				Other	7				ļ
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Chain of Custody Record

Client information	Sample: Eli Maci. Lab PM					/alka								rackin	g No(s):			COC No: 2304W3AFEA11			
Client Contact:	Phone:						FedEx State of Origin: DEurofinsET.com Hawaii									Page:	Page: Page 1 of 1					
Company: AECOM	017	371	PWSID:	101.		.vvai	n Gr (G)	L, U(U)	********				ueste	*******		*******		Job #:				
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Slate, Zip: Hawaii 96813 Phone:	Compilance Proje	ct: A Yes	ΔNo		1		- Letterno	-	1	1	n			1				D - Ni E - Na F - Ma	ЮН	Q-N	a2048 a2803 a28203	
808-954-4512 / 770-331-0794 Email: Walson Tanji (watson.tanji@aecom.com)/ Mark Kromis (mark.kromis@eecom.com)	WO#:	······································					хуашоху		0	W.	0/	3						H - As I - Ice J - DI	comic Ack Water	1 T-TS U-A V-M	SP Dodecahydra celone CAA	ile
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RHSF		,				2	3															******
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Eurofins FGS, Seattle

5755 8th Street East Tacoma WA 98424

Chain of Custody Record

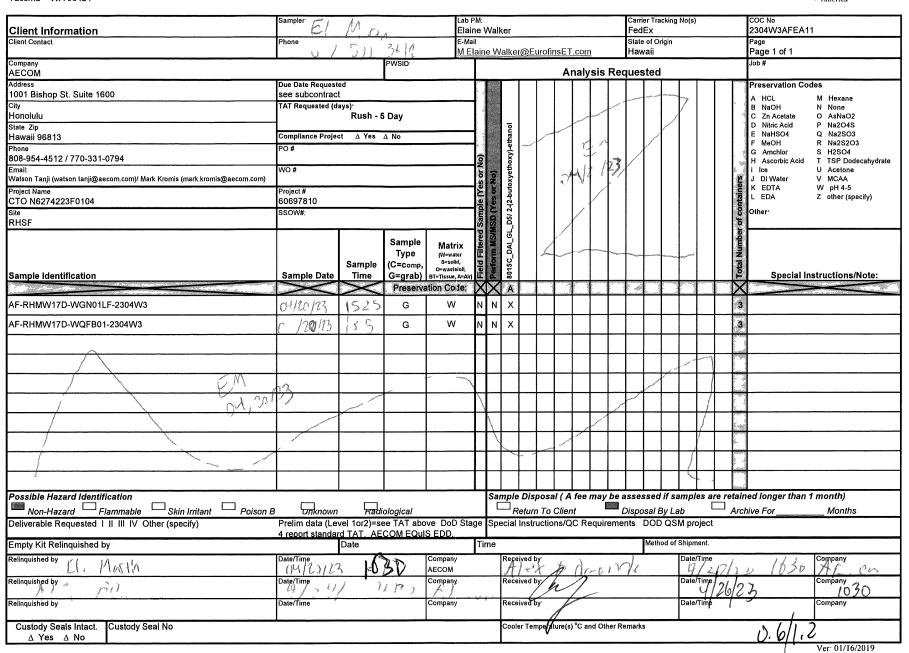
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Environment Testing America

Client Information	Sampler Pi Mas Fin Elaine					lker								COC No 2304W3AFEA0						
Client Contact.	Phone 617-599-3612 E-Mail M Elai					Valkei	ET.c	om							Page Page 1 of 1					
Company AECOM			PWSID:						Ana	lysis	Rec	uest	ted					Job#.		
Address 1001 Bishop St Suite 1600	Due Date Request see subcontrac	t	L						T	ĺ	Ī							Preservation Co	des M Hexai	ne
City Honolulu State Zip	TAT Requested (d	ays) Rush - 8	Day			ا ە		+	-				\mathcal{I}	1-11			3	B NaOH C Zn Acetate D Nitric Acid	N None O AsNa P Na2O	
Hawaii 96813 Phone	Compliance Project			ethan						M		EM EM 12	, 12		2	E NaHSO4 F MeOH	Q Na2S R Na2S	203		
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Watson Tanji (watson tanji@aecom.com)/ Mark Kromis (mark.kromis@aecom.com) Project Name					8 2	utoxye				X			+	1)			Se S		V MCAA W pH 4-	١
CTO N6274223F0104	Project # 60697810					2-(2-bı			1					1			3	L EDA	Z other	(specify)
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Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix {W=water S=solic, O=waste/oil, BT=Tissue, A=Air) ation Code;	Field Filtered Perform MS/k	8015C_DAI_GL_D5/ 2-(2-butoxyethoxy)-ethanol							4				Total Number	Special Ir	struction	ns/Note·
AF-RHMW225401-WGN01B-2304W3	04/21/23	0350	G	W W	NN	A		+					1				$\frac{4}{3}$			
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Possible Hazard Identification ■ Non-Hazard □ Flammable □ Skin Irritant □ Poison E	B Unknown Radiological					\square_R	mple Disposal (A fee may be assessed if samples are retail. Return To Client Disposal By Lab Arcecial Instructions/QC Requirements DOD QSM project.									aine Irchi	ed longer than ive For	montn) Mont		
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Custody Seals Intact.						Coole	er Temp	eratur	e/s)°C	and O	lher Re	marks							Ver: 01/	17/2010

5755 8th Street East Tacoma WA 98424

Chain of Custody Record



Client: AECOM Job Number: 580-126569-1

List Source: Eurofins Savannah
List Number: 2
List Creation: 04/28/23 12:15 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	

True

True

N/A

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Multiphasic samples are not present.

Residual Chlorine Checked.

Samples do not require splitting or compositing.