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PREPARED FOR

Attn: Terri Choy AECOM 1001 Bishop Street Honolulu, Hawaii 96813 Generated 6/5/2023 10:21:56 AM

JOB DESCRIPTION

Red Hill - AFFF Assessment Sampling

ANALYTICAL REPORT

JOB NUMBER

580-127629-1

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 6/5/2023 10:21:56 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: 580-127629-1

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Case Narrative

Client: AECOM Job ID: 580-127629-1

Project/Site: Red Hill - AFFF Assessment Sampling

Job ID: 580-127629-1

Laboratory: Eurofins Seattle

Narrative

CASE NARRATIVE

Client: AECOM
Project: Red Hill - AFFF Assessment Sampling
Report Number: 580-127629-1

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 5/25/2023 9:40 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-RHMW225401-WGN01B-2305W4 (580-127629-1), AF-HDMW225303-WGN01LF-2305W4 (580-127629-2) and AF-RHMW10-WGN01LF-2305W4 (580-127629-3) were analyzed for glycols in accordance with EPA SW-846 Method 8015B - DAI. The samples were analyzed on 05/28/2023 and 06/01/2023.

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: 580-127629-1

Project/Site: Red Hill - AFFF Assessment Sampling

Qualifiers

GC Semi VOA

 Qualifier
 Qualifier Description

 M
 Manual integrated compound.

 U
 Undetected at the Limit of Detection.

Glossary

DLC

Olocoul, y	
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

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)

Decision Level 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

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Client Sample Results

Client: AECOM Job ID: 580-127629-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW225401-WGN01B-2305W4 Lab Sample ID: 580-127629-1

Date Collected: 05/23/23 09:25 Matrix: Water

Date Received: 05/25/23 09:40

Method: SW846 8015C GLY - 6	Slycols- Direct Injection	on (GC/FID)					
Analyte	Result Qualifier	LOQ	DL Unit	D	Prepared	Analyzed	Dil Fac
2-(2-Butoxyethoxy)ethanol	3.0 U M	5.0	1.1 mg/L			06/01/23 19:40	1

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Client Sample Results

Client: AECOM Job ID: 580-127629-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-HDMW225303-WGN01LF-2305W4 Lab Sample ID: 580-127629-2

Date Collected: 05/23/23 10:35 Matrix: Water

Date Received: 05/25/23 09:40

Analyte	Result Qualifier	LOQ	DL Unit	D	Prepared	Analyzed	Dil Fac
2-(2-Butoxyethoxy)ethanol	3.0 U	5.0	1.1 mg/l			05/28/23 01:19	1

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Client Sample Results

Client: AECOM Job ID: 580-127629-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW10-WGN01LF-2305W4 Lab Sample ID: 580-127629-3

Date Collected: 05/23/23 12:42 Matrix: Water

Date Received: 05/25/23 09:40

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			05/28/23 01:42	1	

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Job ID: 580-127629-1

Prep Type: Total/NA

Project/Site: Red Hill - AFFF Assessment Sampling

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

Lab Sample ID: MB 680-780821/18 Client Sample ID: Method Blank

Matrix: Water

Client: AECOM

Analysis Batch: 780821

MB MB

Result Qualifier LOQ DL Unit Dil Fac Analyte D Prepared Analyzed 2-(2-Butoxyethoxy)ethanol 3.0 U M 5.0 1.1 mg/L 05/28/23 00:33

Lab Sample ID: LCS 680-780821/12 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 780821

Spike LCS LCS %Rec Added Result Qualifier D %Rec Limits Unit 20.0 2-(2-Butoxyethoxy)ethanol 18.8 mg/L 94 50 - 150

Lab Sample ID: LCSD 680-780821/13 Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Matrix: Water

Analysis Batch: 780821

Spike LCSD LCSD %Rec **RPD** Added Result Qualifier Limits **RPD** Analyte Unit %Rec Limit 2-(2-Butoxyethoxy)ethanol 20.0 18.4 92 50 - 150 mg/L

Lab Sample ID: MB 680-781525/9 **Client Sample ID: Method Blank** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 781525

MB MB

Analyte Result Qualifier LOQ DL Unit Prepared Dil Fac Analyzed 1.1 mg/L 2-(2-Butoxyethoxy)ethanol 06/01/23 18:07 3.0 U 5.0

Lab Sample ID: LCS 680-781525/5 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 781525

LCS LCS Spike %Rec Added Limits Analyte Result Qualifier Unit %Rec 2-(2-Butoxyethoxy)ethanol 20.0 16.0 80 50 - 150 mg/L

Lab Sample ID: LCSD 680-781525/6 Client Sample ID: Lab Control Sample Dup

Matrix: Water

Analysis Batch: 781525

Spike LCSD LCSD %Rec **RPD** Added Result Qualifier **RPD** Unit %Rec Limits Limit Analyte D 20.0 2-(2-Butoxyethoxy)ethanol 20.9 mg/L 104 50 - 150

Lab Sample ID: 580-127629-1 MS Client Sample ID: AF-RHMW225401-WGN01B-2305W4

Matrix: Water

Analysis Batch: 781525

Sample Sample Spike MS MS %Rec Result Qualifier Added Result Qualifier Limits Unit %Rec 2-(2-Butoxyethoxy)ethanol 3.0 U M 20.0 24 4 mg/L 122 50 - 150

Lab Sample ID: 580-127629-1 MSD Client Sample ID: AF-RHMW225401-WGN01B-2305W4

Matrix: Water

Analysis Batch: 781525

Spike MSD MSD %Rec **RPD** Sample Sample Result Qualifier Added Analyte Result Qualifier Unit %Rec Limits RPD Limit 2-(2-Butoxyethoxy)ethanol 3.0 U M 20.0 26.5 mg/L 132 50 - 150

Eurofins Seattle

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Prep Type: Total/NA

Prep Type: Total/NA

Lab Chronicle

Client: AECOM Job ID: 580-127629-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW225401-WGN01B-2305W4

Lab Sample ID: 580-127629-1 **Matrix: Water**

Date Collected: 05/23/23 09:25 Date Received: 05/25/23 09:40

Batch Dilution **Batch** Batch Prepared Method Number Analyst or Analyzed **Prep Type** Type Run **Factor** Lab 06/01/23 19:40 Total/NA Analysis 8015C GLY 781525 DBM EET SAV

Client Sample ID: AF-HDMW225303-WGN01LF-2305W4

Lab Sample ID: 580-127629-2 **Matrix: Water**

Date Collected: 05/23/23 10:35

Date Received: 05/25/23 09:40

Batch **Batch** Dilution Batch Prepared **Prep Type** Type Method Run **Factor** Number Analyst Lab or Analyzed 05/28/23 01:19 Total/NA Analysis 8015C GLY 780821 GEM EET SAV

Client Sample ID: AF-RHMW10-WGN01LF-2305W4 Lab Sample ID: 580-127629-3 Date Collected: 05/23/23 12:42 **Matrix: Water**

Date Received: 05/25/23 09:40

Batch **Batch** Dilution Batch **Prepared** Method or Analyzed **Prep Type Factor Number Analyst** Type Run Lab 05/28/23 01:42 Total/NA Analysis 8015C GLY 780821 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: 580-127629-1

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	D	rogram ept. of Defense ELAP	L2463	Expiration Date 09-22-24
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: 580-127629-1

Project/Site: Red Hill - AFFF Assessment Sampling

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-127629-1	AF-RHMW225401-WGN01B-2305W4	Water	05/23/23 09:25	05/25/23 09:40
580-127629-2	AF-HDMW225303-WGN01LF-2305W4	Water	05/23/23 10:35	05/25/23 09:40
580-127629-3	AF-RHMW10-WGN01LF-2305W4	Water	05/23/23 12:42	05/25/23 09:40

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

Chain of Custody Record

👯 eurofins

Environment Testin America

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Client Information	Sampler Chy	T AR T	Zévez	Lab F Elair	°M: ne W	alker						Carrier FedEx	Fracking N	lo(s)		COC No: 2305W4AFEA0	7
Client Contact:	Phone (909)		5000	E Ma M El		Walke	er@Eu	urofin	sET o	com		State of Hawaii				Page Page 1 of 1	
Company AECOM			PWSID [,]		Π						s Re	queste	d			Job #	
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5755 8th Street East Tacoma, WA 98424

Chain of Custody Record



Environment Testing America

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Hawaii 96813 Phone	Compliance Project	ct. A Yes	ΔNo		11	1											F MeOH	R Na2S2O3
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Walson Tanji (watson.tanji@aecom.com)/ Mark Kromis (mark.kromis@aecom.com) Project Name	Project #				8			1 1	1	ł	Wi	PV				Ders	J DI Water K EDTA	V MCAA W pH 4-5
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5755 8th Street East Tacoma, WA 98424

Chain of Custody Record



eurofins Environment Testing America

Client Information	Sampler De Couro				Lab PM: Elaine Walker									arrier edEx		ng No	s)			COC No 2305W4AFEA03		
Client Contact:	Phone: 330 25 966 2				Mail Elaine.Walker@EurofinsET.com									tate of)				Page Page 1 of 1		
Company AECOM	PWSID.					Analysis Req														Job #		
Address.	Due Date Request				\dagger		Т	Т	Т		T	1311			Ť	T	T	17		Preservation Co		
1001 Bishop St Suite 1600 City	see subcontract TAT Requested (days):																1,	1		A HCL B NaOH	M Hexane N None	
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Hawaii 96813 Phone	Compliance Project	ct; Δ Yes	ΔNo		$\ \ $		/)-ethi							1	h					E NaHSO4 F MeOH	Q Na2SO3 R Na2S2O3	
808-954-4512 / 770-331-0794	WO#				Q.		thoxy							, h	(4)	1				G Amchlor H Ascorble Acid	S H2SO4 T TSP Dodecahydrate	
Email. Watson Tanji (watson tanji					es or	ON L	rtoxye			-			1	H	X				ers	I Ice J DI Water K EDTA	U Acetone V MCAA W pH 4-5	
Project Name. CTO N6274223F0104	Project # 60697810)e (ş	-(2-pr					1	$\theta \phi$	\mathcal{A}_{-}					1 E	L EDA	Z other (specify)	
Site RHSF	SSOW#				Sample (Yes or No)) asi	8015C_DAI_GL_D5/ 2-(2-butoxyethoxy)-ethanol				1	$\langle \rangle$	1						ŏ	Other		
			Sample	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Ali	ered	Perform MS/N	20				/	$\langle \rangle$	١١						Total Number			
		Sample	Type (C=comp,	(W=water S=solid,	티	E	200			1					ı				N I			
Sample Identification	Sample Date	Time	G=grab)	O=waste/oil, BT=Tissue, A≃Air	追			4									ļ	<u> </u>	Į,	Special In	structions/Note:	
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Relinquished by Brittany Tommez	Date/Time 05/23/2	s 1º	t05	Company AECOM			Receiv	/ <u>`</u>		4									3	0940	Company	
Relinquished by	Date/Time			Company		R	teceiv	ed by:		<i>-</i>						Da	e/Time				Company	
Custody Seals Intact Custody Seal No Δ Yes Δ No						C	Cooler	Tempe	eratur	re(s) °	C and	Olhei	r Rem	arks.					Y.	7/57		
																					Ver: 01/16/2019	

Page 15 of 17 6/5/2023

Client: AECOM Job Number: 580-127629-1

Login Number: 127629 List Source: Eurofins Seattle

List Number: 1

Creator: Johnson, Corey M

ordator: comicon, corcy in		
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	
s 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	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: AECOM Job Number: 580-127629-1

List Source: Eurofins Savannah
List Number: 2
List Creation: 05/27/23 07:31 PM

Creator: Meincke, Griffin E

Question Answer Comment

Radioactivity wasn't checked or is </= background as measured by a survey

meter.

The cooler's custody seal, if present, is intact.

Sample custody seals, if present, are intact.

The cooler or samples do not appear to have been compromised or

tampered with.

Samples were received on ice.

Cooler Temperature is acceptable.

Cooler Temperature is recorded.

COC is present.

COC is filled out in ink and legible.

COC is filled out with all pertinent information.

Is the Field Sampler's name present on COC?

There are no discrepancies between the containers received and the COC.

Samples are received within Holding Time (excluding tests with immediate

HTs)

Sample containers have legible labels.

Containers are not broken or leaking.

Sample collection date/times are provided.

Appropriate sample containers are used.

Sample bottles are completely filled.

Sample Preservation Verified.

There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs

Containers requiring zero headspace have no headspace or bubble is

<6mm (1/4").
Multiphasic samples are not present.

Samples do not require splitting or compositing.

Residual Chlorine Checked.

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