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# PREPARED FOR

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

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## **JOB DESCRIPTION**

Red Hill - AFFF Assessment Sampling

**ANALYTICAL REPORT** 

# **JOB NUMBER**

580-125692-1

Eurofins Seattle 5755 8th Street East Tacoma WA 98424

# **Eurofins Seattle**

#### **Job Notes**

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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

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

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Client: AECOM

Laboratory Job ID: 580-125692-1

Project/Site: Red Hill - AFFF Assessment Sampling

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#### **Case Narrative**

Client: AECOM Job ID: 580-125692-1

Project/Site: Red Hill - AFFF Assessment Sampling

Job ID: 580-125692-1

**Laboratory: Eurofins Seattle** 

Narrative

#### **CASE NARRATIVE**

Client: AECOM
Project: Red Hill - AFFF Assessment Sampling
Report Number: 580-125692-1

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 4/5/2023 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 1.5° 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-2303W4 (580-125692-1), AF-RHMW17D-WQFB01-2303W4 (580-125692-2), AF-RHMW03-WGN01LF-2303W4 (580-125692-3), AF-RHMW02-WGN01LF-2303W4 (580-125692-4) and AF-RHMW17-WGN01LF-2303W4 (580-125692-5) were analyzed for glycols in accordance with EPA SW-846 Method 8015B - DAI. The samples were analyzed on 04/12/2023.

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: 580-125692-1

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**

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
POS Positive / Operation | Operat

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: AECOM Job ID: 580-125692-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW17D-WGN01LF-2303W4 Lab Sample ID: 580-125692-1

Date Collected: 03/31/23 10:35 Matrix: Water

Date Received: 04/05/23 10:30

Analyte	Result Qualifier	LOQ	DL Unit	D	Prepared	Analyzed	Dil Fac
2-(2-Butoxyethoxy)ethanol	3.0 IIM	5.0	1.1 ma/l			04/12/23 02:11	

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Client: AECOM Job ID: 580-125692-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW17D-WQFB01-2303W4 Lab Sample ID: 580-125692-2

Date Collected: 03/31/23 09:35 Matrix: Water

Date Received: 04/05/23 10:30

Method: SW846 8015C GLY - 0	Glycols- Direct	Injection (GC/FID)					
Analyte	Result Qua	alifier LOQ	DL Unit	D	Prepared	Analyzed	Dil Fac
2-(2-Butoxyethoxy)ethanol	3.0 U	5.0	1.1 mg/L			04/12/23 03:21	1

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Client: AECOM Job ID: 580-125692-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW03-WGN01LF-2303W4 Lab Sample ID: 580-125692-3

Date Collected: 03/30/23 13:25 Matrix: Water

Date Received: 04/05/23 10:30

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

Analyte	Result Quali	fier LOQ	DL Unit	D	Prepared	Analyzed	Dil Fac
2-(2-Butoxyethoxy)ethanol	30 U	5.0	1.1 mg/l			04/12/23 03:44	1

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Client: AECOM Job ID: 580-125692-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW02-WGN01LF-2303W4 Lab Sample ID: 580-125692-4

Date Collected: 03/30/23 11:15 Matrix: Water

Date Received: 04/05/23 10:30

Analyte	Result Qualifier	LOQ	DL Unit	D	Prepared	Analyzed	Dil Fac
2-(2-Butoxyethoxy)ethanol	3.0 U M	5.0	1.1 ma/L			04/12/23 04:07	

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Client: AECOM Job ID: 580-125692-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW17-WGN01LF-2303W4 Lab Sample ID: 580-125692-5

Date Collected: 03/31/23 12:20 Matrix: Water

Date Received: 04/05/23 10:30

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
2-(2-Butoxvethoxv)ethanol	3.0	U M	5.0	1.1	ma/L			04/12/23 04:30	

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Client: AECOM Job ID: 580-125692-1

Project/Site: Red Hill - AFFF Assessment Sampling

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

Lab Sample ID: MB 680-772684/9 Client Sample ID: Method Blank

**Matrix: Water** 

Analysis Batch: 772684

MB MB Result Qualifier LOQ DL Unit Analyzed Dil Fac Analyte Prepared 3.0 U M 5.0 1.1 mg/L 04/11/23 16:23 2-(2-Butoxyethoxy)ethanol

Lab Sample ID: LCS 680-772684/5 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA

Analysis Batch: 772684

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

Lab Sample ID: LCSD 680-772684/6 Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

**Matrix: Water** 

**Analysis Batch: 772684** 

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: 580-125692-1 MS Client Sample ID: AF-RHMW17D-WGN01LF-2303W4 Prep Type: Total/NA

**Matrix: Water** 

**Analysis Batch: 772684** 

Spike MS MS %Rec Sample Sample Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits 2-(2-Butoxyethoxy)ethanol 3.0 U M 20.0 19.1 mg/L 96 50 - 150

Lab Sample ID: 580-125692-1 MSD Client Sample ID: AF-RHMW17D-WGN01LF-2303W4 Prep Type: Total/NA

**Matrix: Water** 

Analysis Batch: 772684

MSD MSD RPD Sample Sample Spike %Rec Analyte Result Qualifier Added Result Qualifier Limits Unit %Rec Limit 2-(2-Butoxyethoxy)ethanol 3.0 U M 20.0 18.3 91 mg/L 50 - 150 50

**Eurofins Seattle** 

Prep Type: Total/NA

4/12/2023

Job ID: 580-125692-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW17D-WGN01LF-2303W4 Lab Sample ID: 580-125692-1

Date Collected: 03/31/23 10:35 Date Received: 04/05/23 10:30

Client: AECOM

**Matrix: Water** 

Batch Dilution Batch Batch Prepared Method Number Analyst or Analyzed **Prep Type** Type Run **Factor** Lab Total/NA 8015C GLY 772684 JCK EET SAV 04/12/23 02:11 Analysis

Client Sample ID: AF-RHMW17D-WQFB01-2303W4 Lab Sample ID: 580-125692-2

Date Collected: 03/31/23 09:35

**Matrix: Water** 

Date Received: 04/05/23 10:30

Batch Batch Dilution Batch **Prepared Prep Type** Type Method Run **Factor Number Analyst** Lab or Analyzed 04/12/23 03:21 Total/NA Analysis 8015C GLY 772684 JCK EET SAV

Client Sample ID: AF-RHMW03-WGN01LF-2303W4 Lab Sample ID: 580-125692-3

Date Collected: 03/30/23 13:25

**Matrix: Water** 

**Matrix: Water** 

**Matrix: Water** 

Date Received: 04/05/23 10:30

Batch Batch Dilution Batch Prepared or Analyzed **Prep Type** Method **Factor Number Analyst** Type Run Lab 04/12/23 03:44 EET SAV Total/NA Analysis 8015C GLY 772684 JCK

Client Sample ID: AF-RHMW02-WGN01LF-2303W4 Lab Sample ID: 580-125692-4

Date Collected: 03/30/23 11:15

Date Received: 04/05/23 10:30

Batch Batch Dilution Batch **Prepared Prep Type** Method **Number Analyst** or Analyzed Type Run **Factor** Lab Analysis 8015C GLY 772684 JCK EET SAV 04/12/23 04:07 Total/NA

Client Sample ID: AF-RHMW17-WGN01LF-2303W4 Lab Sample ID: 580-125692-5

Date Collected: 03/31/23 12:20

Date Received: 04/05/23 10:30

Batch Batch Dilution Batch Prepared Method Factor Number Analyst or Analyzed **Prep Type** Type Run Lab 04/12/23 04:30 Total/NA Analysis 8015C GLY 772684 JCK **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: 580-125692-1

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	

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# **Sample Summary**

Client: AECOM Job ID: 580-125692-1

Project/Site: Red Hill - AFFF Assessment Sampling

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-125692-1	AF-RHMW17D-WGN01LF-2303W4	Water	03/31/23 10:35	04/05/23 10:30
580-125692-2	AF-RHMW17D-WQFB01-2303W4	Water	03/31/23 09:35	04/05/23 10:30
580-125692-3	AF-RHMW03-WGN01LF-2303W4	Water	03/30/23 13:25	04/05/23 10:30
580-125692-4	AF-RHMW02-WGN01LF-2303W4	Water	03/30/23 11:15	04/05/23 10:30
580-125692-5	AF-RHMW17-WGN01LF-2303W4	Water	03/31/23 12:20	04/05/23 10:30

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5755 8th Street East Tacoma, WA 98424

# **Chain of Custody Record**

🔆 eurofins

Environment Testing America

Client Information	Sampler: TESSA MVF	LPHY			PM: line V	Valke	er						Carr Fed	ler Ta Ex	ecking	No(s	):			COC No: 2303W4AFEA1	
Client Contact:	Phone: 978-382	-5z07		E-N M.I		e.Wa	lker@	Euro	finsE	T.cor	m		State	e of O	rigin:					Page: Page 1 of 1	
Company:			PWSID:		T						/sis	Par								Job#:	
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1001 Bishop St. Suite 1600	see subcontrac	at			- \$6 \$6			-												A - HCL	M - Hexane
City: Honolulu	TAT Requested (d	tays): Rush - /	ASAP				_													B - NaOH C - Zn Acetate	N - None O - AsNaO2
State. Zip: Hawaii 96813	Compliance Proje	ct: A Yes	ΔNo		-		Than the													D - Nitric Acid E - NaHSO4	P - Na2045 Q - Na2503
Phone: 808-954-4512 / 770-331-0794	PO#:				]ஓ		ethoxy)-ethanol													F - MeOH G - Amchlor H - Ascorbic Acid	R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrat
Email: Wasson Tanji (watson.tanji@aecom.com) Mark Kromis (mark.kromis@aecom.com)	WO #:		<del></del>	· · · · · · · · · · · · · · · · · · ·		፮	Dayse												2	I - Ice J - DI Water	U - Acetone V - MCAA
Project Name: CTO N6274223F0104	Project #: 60697810				اچ ا		2-(2-butoxy					112							ntath	K - EDTA L - EDA	W - pH 4-5 Z - other (specify)
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Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)		eld Filter	Parton Man	8019C_DALGL_DS/												Total Number	Special In	structions/Note:
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Page 15 항 295692 Chain of Custody

eurofins Environment Testing America

Client Information Client Contact:	Sampler: Aud Phone: 402-1	4 You	ستر	Lab Elai		/alker	,						nier Tr dEx	acking	No(s)	):			OC No: 303W4AFEA	02	
Client Contact:	Phone: 402-1	871-57	12	E-Ma M.E		.Wall	ker@[	urofi	nsET	.com			ne of C wall	rigin:			***********************		age: age 1 of 1		
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City: Honoluku	TAT Requested (d	Rush - A	SAP			,											Section diese	C	- NaOH - Zn Acetate - Nitric Acid	N - None O - AsNaO2 P - NaZO4S	
State, Zip: Hawaii 96813	Compliance Project	ct A Yes	Δ No		11	1							10	1			Succession	E	- NaHSO4 - MeOH	G - Na2SO3 R - Na2S2O3	3
Phone: 808-954-4512 / 770-331-0794	P0#:				Q	hoxof							12	P			N. Spieled	G H	- Amchlor - Ascorbic Acid	S - H2SO4 T - TSP Dode	
Email: Watson Tanji (watson.tanji@aecom.com)/ Mark Kromls (mark.kromis@aecom.com)	WO #:				10					1	h	*	12				Commen		- Ice - Di Water	U - Acetone V - MCAA	
Project Name: CTO N6274223F0104	Project #: 60697810				Σ g	7 P				$\triangle$	P	نِہ}	}						- EDTA - EDA	W - pH 4-5 Z - other (spe	cify)
Site: RHSF	SSOW#:				d Sample (Yes or No	06/2				9	13	7					and a	8 O	her:		
		Sample	Sample Type (C=comp,	Matrix (W-meter, Sweete,	eld Filtered	Personn MSDR 60 (100 OT NO) 8015C_DAI GL D5/2-(2-butoxysthoxy)-ethenol				-								FOREI WITH DIE			
Sample Identification	Sample Date	Time	G=grab) Preserv	BT+Thsum, Analy	关	S A		434	800	60 V T	98 JR	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	b 3500	2.43			3	+3   -2     -3	Special I	nstructions/N	lote:
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Non-Hazard Flammable Skin Imitant Poison B	Unknown	nadio	logical		1	$\Box_F$	Return	To	lient			Dispo	sal B	y Lai	ь		An	chive	For	Months	
Deliverable Requested: I, II, III, IV, Other (specify)	Prelim data (Lev 4 report standare				e S	pecial	Instr	uction	s/QC	Req	uireme	ents:	DOD	QSA	A proj	ject.					
Empty Kit Relinquished by:	1	Date:			Time								Metho						***************************************		
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Relinquished by: Andy Torung CS45 Relinquished by: James Hason	Date/Time: 4/3/23	13	45	Company 本モイント	4	Rece	eived b		1	1				1	ate/Ti	ime:	23	1	070	Company	
Relinquished by:	Date/Time:			Сомралу		Rece	eived b	y:							Date/Ti					Company	
Custody Seals Intact: Custody Seal No.: Δ Yes Δ No	<u></u>					Cool	er Tem	becatn	re(s) °(	C and (	Other R	emark	<b>S</b> :		₩/	اسی	4.2	8			
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## **Chain of Custody Record**

Eurofins FGS, Seattle 5755 8th Street East Tacoma, WA 98424		Chain	of Cu	stody	Red	ord	i											🔆 eurofii	Environment Testi America
Client Information		لم رحد	ΛŖ	Įε	ab PM: Iaine V	/alker						Carrie Fed8	r Traci	dng N	o(s):		-	COC No: 2303W4AFEA	.01
Client Contact	Phone:	871-5	712		-Mail: 1.Elaine	Walke	r@Eu	rofins	ET.co	m		State of		in:				Page: Page 1 of 1	· · · · · · · · · · · · · · · · · · ·
Company: AECOM			PWSIO:	<u></u>					Anal		Ren							Job#:	
Address: 1001 Bishop St. Suite 1600 City: Honolulu State, Zip:	Due Date Requesee see subcontra TAT Requested (	ct	ASAP			lor								7	1	1		Preservation C A - HCL B - NaOH C - Zn Acetate	M - Hexane N - None O - AsNaO2
Hawaii 96813	Compliance Proj	ect: A Yes	ΔNo			ette						5	1	7				D - Nitric Acid E - NaHSO4 F - MeOH	P - Na2O4S Q - Na2SQ3
808-954-4512 / 770-331-0794 mail:	PO #:				₹	2-(2-butoxyethoxy)-ethano						X						G - Amehior H - Ascerbic Acid	R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrat
Watson Tanji (watson.tanji@aecom.com)/ Mark Kromis (mark.kromis@aecom.com)	WO#:				ŏ	Oxye Oxye				1 2			3				Ę	A	U - Acetone V - MCAA
Project Name: CTO N6274223F0104	Project#: 60697810				-8	(2. bu				Ðν	13	24					1 mgh	K - EDTA L - EDA	W - pH 4-5 Z - other (specify)
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ossible Hazard Identification  Non-Hazard Flammable Skin irritant Poison B U	nknown Rad	liologicar	<u> </u>		Sa	mple I	Dispo: um To	sal ( /	A fee i	may i	e as:	sesso nosal	ed if :	sam <sub>i</sub> ab	oles a	re n	etain Arch	ed longer than ive For	1 month) Months
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eurofins Environment Testing America

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Client Information	TESSA MU	PPHY			aine \	Wa!k	er							Fed							2303W4A	FEA1	0	
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City: Honolulu		Rush - A	SAP		5.4		_				ĺ	i						Y		1.00 10.00 1	C - Zn Aceta		O - AsNat	
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Phone: 808-954-4512 / 770-331-0794	PO#:				- (0)		loxy.														G - Amchlor H - Ascorbic	Acid	R - Na2S2 S - H2SO- T - TSP D	
Email: Watson Tanji (watson.tanji@aecom.com)/ Mark Kromis (mark.kromis@aecom.com)	W0#:		<del></del>		Sampla (Yas or No	9	oxyet													2	i - ice J - Di Water	- 1-1-	U - Acetor V - MCAA	ne
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Eurofins FGS, Seattle 5755 8th Street East Tacoma WA 98424	Chain	Chain of Custody Record	dy Reco	2			💸 eurofins	En rot men Testing America
ormation	Sampler TESSA MURPHY		Lab PM: Elaine Walker	er	Carrier Tracking No(s): FedEx		COC No: 2303W4AFEA11	
act:	Phone:		E-Mail. M Elaine Wa	E-Mail. M Elaine Walker@EurofinsET com	State of Origin. Hawaji		Page: Page 1 of 1	
Company: AECOM		PWSID:		Analysis Requested	equested		.# qor	
hop St. Suite 1600	Due Date Requested: see subcontract						8	is: M - Hexane
	TAT Requested (days) Rush - ASAP	ASAP		Ic			B - NaOH C - Zn Acetate	N - None O - AsNaO2
State. Zp Hawaii 96813	Compliance Project: △ Yes	o No		onsrlie				P - Na2O4S Q - Na2SO3 P N2SSO3
/ 770-331-0794	PO#:		(0)	ιοχλ)-ι				S - H2SO4 T - TSP Dodecahvdrate
om)/ Mark Kromis (mark.kromis@aecom.com)	WO #:			toxyeth				U - Acetone V - MCAA
l	Project #: 60697810			7		nlejno	<b>∀</b> <del>L</del> ∀	W - pH 4-5 Z - other (specify)
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					580-12	580-125692 Chain of Custody	Custody	
Possible Hazard Identification  Non-Hazard		Radiological	San	Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)  Return To Client  Disposal By Lab  Mon	e assessed if san	nples are retain	stained longer than 1 Archive For	month) Months
ssted I, II, III IV Other (specify)	Prelim data (I	Level 1or2)=see TAT above DoD Stage	OoD Stage Spe	Special Instructions/QC Requirements DOD QSM project	nents DOD QSM	١.	THE RESIDENCE OF THE PERSON OF	
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4350	Date/Time:	3 15 Com	Company	Received by	Δ \	Date/Time:	1630	Company
	Date/Time:	Сотралу		Received by:		Date/Time:		Company
Custody Seals Intact: Custody Seal No				Cooler Temperature(s) °C and Other Remarks.	r Remarks.	21/2		
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N - None
O - Ashao2
P - Na2O4S
Q - Na2S03
R - Na2S233
S - L2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - PH 4-5
Z - other (specify) Epry onment Testing Special Instructions/Note: Company Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client Disposal By Lab Archive For Mont reservation Codes. COC No: 2303W4AFEA02 💸 eurofins A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
F - NaBSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid Page: Page 1 of 1 I - Ice J - DI Water K - EDTA L - EDA 1020 Total Number of containers 4.5.23 Date/Time: 15/1 Special Instructions/QC Requirements DOD QSM project. Method of Shipment: Carrier Tracking No(s):
FedEx
State of Origin.
Hawaii **Analysis Requested** Cooler Temperature(s) °C and Other Remarks: Lab PM: Elaine Walker E-Mail. M Elaine.Walker@EurofinsET com 200 Received by: Received by: Received by **Chain of Custody Record** 8015C\_DAI\_GL\_D5/ 2-(2-butoxyethoxy)-ethanol × Perform MS/MSD (Yes or No) Field Filtered Sample (Yes or No) z Prelim data (Level 10r2)=see TAT above. DoD Stage 4 report standard TAT. AECOM EQuIS EDD. | Tin Matrix
(W=water
S=solid,
O=waste/oil,
BT=Tissue, A=At) Preservation Code: Company AECOM Company ≥ G=qrab) Sample (C=comp, Due Date Requested: see subconfract TAT Requested (days): Rush - ASAP Type ტ Kadiological 7 555 1550 Compliance Project: △ Yes △ No PO #: 12. Sample Time 12-128-23H shout 1325 Thrown Date/Time: 3/30/23
Date/Time: Sample Date S Project #: 60697810 SSOW#: 3/30 WO #: Poison B Linen: Watson Tanji (watson.tanji@aecom.com)/ Mark Kromis (mark.kromis@aecom.com) Skin Irritant Deliverable Requested I, II III IV Other (specify) ひの女 Custody Seals Intact: Custody Seal No ∆ Yes ∆ No 001 AF-RHMW03-WGN01LF-2303W4 frey some 808-954-4512 / 770-331-0794 1001 Bishop St. Suite 1600 1 Empty Kit Relinquished by Client Information Sample Identification Project Name: CTO N6274223F0104 Tacoma WA 98424 5755 8th Street East State Zip: Hawaıı 96813 Relinquished by Relinquished by elinquished by Company: AECOM Honolulu RHSF

Eurofins FGS, Seattle

Eurofins FGS, Seattle 5755 8th Street East Tacoma, WA 98424	S	hain o	f Cust	Chain of Custody Record	cord					• •	🛟 eurofins	Erv on man Testing America
Client Information	Sampler	Š	8	Lab PM Elaine	Lab PM Elaine Walker			Carrier Tracking No(s): FedEx	ıg No(s):	33.0	COC No 2303W4AFEA01	1
Client Contact	Phone:	757	5	E-Mail M Elai	E-Mail M Elaine Walker@EurofinsET com	EurofinsET	woo	State of Origin. Hawaii		Pa Pa	Page: Page 1 of 1	
Company AECOM			PWSID			Ą	Analysis Requested	nested		gor	#	
Address: 1001 Bishop St. Suite 1600	Due Date Requested see subcontract									Pre	Preservation Codes	des M Hexane
City Honolulu	TAT Requested (day	s) <sup>-</sup> Rush - ASAP	AP.		ļc					က်ပဲ	B - NaOH C - Zn Acetate	
State, Zip Hawaii 96813	Compliance Project:	∆ Yes	o No	l	oueyja			-1/-	· /	ىسم	Nitric Acid NaHSO4	
Phone: 808-954-4512 / 770-331-0794	PO#:			100				\ \ \		ட்மு	MeOH Amchlor	R Na2S203 S-H2S04 T TSB Podosh deats
Email: Watson Tanji (watson.tanji@aecom.com.) Mark Kromis (mark.kromis@aecom.com.)	WO#:			10 50	(oN )		1				I - Ice J - DI Water	
Project Name: CTO N6274223F0104	Project #: 60697810			X) 91	o sə)		11	レ		-	EDTA EDA	W - pH 4-5 Z - other (specify)
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	1 or 0	1 1or2)=see	TAT above	DoD Stage	Special ins	tructions/Q(	Special Instructions/QC Requirements. DOD QSM project.	nts. DOD Q	SM project.			
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Relinquished by ) > < - > C	Date/Time:	r	V	Company	Received by	<b>♂</b> <u>*</u>	7		Date/Time:	77	1030	Company
Relinquished by	Date/Time:		o	Company	Received by	l by			Date/Time:	,		Company
Custody Seals Infact Custody Seal No	:				Cooler T	emperature(s)	Cooler Temperature(s) °C and Other Remarks.	marks.	15	5%		
									_			Ver 01/16/2019

N - None
O - Asha02
P - Na2045
Q - Na2S03
R - Na2S23
S - H2S04
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - PH 4-5
Z - other (specify) Erv onment Testing Special Instructions/Note: (Company ompany reservation Codes: COC No. 2303W4AFEA10 : eurofins A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
F - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid 10.30 Page: Page 1 of 1 Job #: I - Ice J - DI Water K - EDTA L - EDA 31172 Total Number of containers Date/Time: Date/Time Carrier Tracking No(s): FedEx State of Origin. Hawaii **Analysis Requested** 1 Tas 5 2,0 Cooler Temperature(s) °C and Other Remarks: Lab PM: Elaine Walker E-Mail M Elaine Walker@EurofinsET com Received by: Received by: Received by Chain of Custody Record 8012C DALGL D5/ 2-(2-butoxyethoxy)-ethanol × Perform MS/MSD (Yes or No) Field Filtered Sample (Yes or No) 5 Matrix
(W=water
S=solid,
O=wastefoll,
BT=Tissue, A=Air) Preservation Code: Company
AECOM
Company ≥ G=grab) Sample (C=comp, Type ပ TAT Requested (days):
Rush - ASAP はない 7 Compliance Project: A Yes A No Phone: Sample Time 137E1 Sampler TESSA MURPHY Due Date Requested see subcontract 1 Sample Date Date/Time: 3/S1/23
Date/Time: Project #: 60697810 SSOW#: 3/31/23 .# O∧ # 00 Poison B Watson Tanji (watson.tanji@aecom.com)/ Mark Kromis (mark.kromis@aecom.com) TESSED MURRHY Skin Irritant Deliverable Requested 1 II III, IV Other (specify) Custody Seal No 11 Non-Hazard Flammable AF-RHMW17-WGN01LF-2303W4 **Eurofins FGS, Seattle** ossible Hazard Identification 808-954-4512 / 770-331-0794 elinquished by 1001 Bishop St. Suite 1600 Empty Kit Relinquished by Custody Seals Intact: △ Yes △ No Ö Client Information Sample Identification Project Name: CTO N6274223F0104 Tacoma WA 98424 5755 8th Street East State, Zip. Hawaii 96813 Relinquished by elinquished by Client Contact: Honolulu Company AECOM

- Eurofins Savannah Triage Checklist
- D Date  $\frac{4-5/23}{}$
- D Time 1030
- Checked By
- D Number of Coolers \_\_\_\_\_
- ☐ Cooler Type Hard Styrofoam Box
- D Ice Type (Wet) Dry GelPack None Other
- D Received Via Fed-Ex ) UPS ( ) Bus
  Client Drop Off US Mail Courier
  BlueStreak Dash Other
- Courier Tracking Number
- O Client Kow
- □ Thermometer ID <u>CUIR\_32</u>
- □ Uncorrected Cooler Temps (°C) 1-5
- □ Correction Factor 6.0
- □ Corrected Cooler Temps (°C) 1.5
- □ Other/ Comments
- D Foreign soil Yes / No

Eurofins FGS, Seattle 5755 8th Street East Tacoma WA 98424	ວົ	ain of Cu	Chain of Custody Record	cord				💸 eurofins	Er ronnen Testing Ame ca
	Sampler TESSA MUYAPHY	7*	Lab PM: Elaine	Lab PM: Elaine Walker		Carrier Tracking No(s): FedEx		COC No: 2303W4AFEA11	
Client Contact:	Phone: -282-520	C	E-Mail: M Ela	ne Walker	E-Mail: M Elaine Walker@EurofinsET com	State of Origin Hawaii		Page: Page 1 of 1	
Company AECOM		DWSID			Analysis	Analysis Requested		Job #:	
hop St. Suite 1600	Due Date Requested: see subcontract								es: M - Hexane
City Honolulu	TAT Requested (days):	): Rush - ASAP		ĮC				B - NaOH C - Zn Acetate	N - None O - AsNaO2
State Zip Hawaii 96813	Compliance Project:	∆ Yes ∆ No		ousdie					0 - Na203
/ 770-331-0794	PO #:								S - H2SO4 T - TSP Dodecahydrate
om)/ Mark Kromis (mark.kromis@aecom.com)	: MO #:			(ON I			ers		U - Acetone V - MCAA
Project Name: CTO N6274223F0104	Project #: 60697810		, , , , , , , , , , , , , , , , , , ,	o se,		<u>ş</u>	nleind	K - EDTA L - EDA	W - pH 4-5 Z - other (specify)
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	S	Sample Type Sample (C=comp,	Matrix (W=vater S=soild, O=waste/oil,	ield Filtered Perform MS/I 19_IAG_D216			otal Numbe	<u> </u>	Poosial Institutefi one Mixto
Sample Identification	1	+	tion Code:	$\times$			X		
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AF-RHMW17D-WQFB01-2303W4	3/3/123	9 88	×	× z			က		
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						580-1	580-125692 Chain of Custody	Custody	
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ant		- Kadiological		Sample \textstyle	Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)  Return To Client  Disposal By Lab  Mon	t be assessed if san	umples are retair tb Arc	etained longer than Archive For	1 month) Months
	Prelim data (Le	evel 1or2)=see TAT above DoI	above DoD Stage	Special	Special Instructions/QC Requirements	rements DOD QSM project.			
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Relinquished by ) may tayen	Date/Time·	345	Company オディク		Received by	-	Date/Time:	1630	Company
Relinquished by:	Date/Time:		Сотрапу	Rece	Received by:		Date/Time:		Сотрапу
Custody Seals Intact: Custody Seal No				Coole	Cooler Temperature(s) °C and Other Remarks:	her Remarks:	5-1/5-1		
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Eurofins FGS, Seattle 5755 8th Street East Tacoma WA 98424	Cha	Chain of Custody Record	stody R	ecor	75			🗞 eurofins	INS Env onnen, Testing Ame, ca
ormation	1	25.53	Lab P Elain	Lab PM: Elaine Walker		Carrier Tracking No(s): FedEx	ng No(s):	COC No: 2303W4AFEA02	EA02
act:	Phone: 102-87	2115	E-Mail M El	sine Wall	E-Mail M Elaine Walker@EurofinsET com	State of Origin Hawaii		Page: Page 1 of 1	
Company AECOM		PWSID			Analysis	Analysis Requested		Job #:	
Address. 1001 Bishop St. Surte 1600	Due Date Requested see subcontract							Preservation Codes.	Codes. M - Hexane
n	l w	): Rush - ASAP					÷ .	B - NaOH C - Zn Acetate	
State Zip Hawaii 96813	Compliance Project A	Δ Yes Δ No						D - Nitric Acid E - NaHSO4	
/ 770-331-0794	PO #-				Man	- L		G - Amchlor H - Ascorbic	
om)/ Mark Kromis (mark.kromis@aecom.com)	WO#:			(on a		\$\frac{1}{2}			U - Acetone V - MCAA
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Custody Seals Intact: Custody Seal No.				Ö	Cooler Temperature(s) °C and Other Remarks.	Other Remarks.	4.5-18	18	
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Color   Information	Eurofins FGS, Seattle 5755 8th Street East Tacoma WA 98424	0	hain o	of Cust	Chain of Custody Record	cord					💸 eurofins	IS Erv romant Testing «menca
Figure   F	Client Information	فراس	l .	1	Lab PM Elaine	Walker			ner Tracking N JEx	lo(s):	COC No: 2303W4AFEA	01
Sign   Figure   Companies Project   Area Andrew   Companies Project   Companies Project   Companies Project   Area Andrew   Companies Project   Companies	Client Contact	١	1	12	E-Mail: M Elai	ne Walker	@EurofinsET		e of Origin wall		Page: Page 1 of 1	
The Date State Section Training   The Companies of Training	Company AECOM			PWSID			Ā	alysis Reque	sted		Job #:	
Note   Continued	Address. 1001 Bishop St. Suite 1600	Due Date Requeste see subcontract	;;;;, <sub>1</sub>							1	Preservation C	
Sample Date   Sample Date   Sample Date   Sample   Caronis   Control   Caronis   Control   Caronis   Car	City Honolulu	TAT Requested (da	ays): Rush - A3	SAP		ļc					B - NaOH C Zn Acetate	
Sample Date   Sample   Sample Date   Sample   Samp	State, Zip* Hawaii 96813	Compliance Project		No		ethan			1		D - Nitric Acid E - NaHSO4	
Sample   Date   Time   Sample   Cropen   Sample   Cropen   Cropen   Sample   Sample   Cropen   Sample   Sampl	Phone: 808-954-4512 / 770-331-0794	#0A			(ON						F - MeOH G - Amchlor H - Assorbic Acid	
Somple Operation   Somple   Cocons   Somple   Somple   Somple   Somple   Cocons   Somple	Email Watson Tanji (watson.tanji@aecom.com) Mark Kromis (mark.kromis@aecom.com)	WO #:			10 80	(oN 1		7		310		
Sample Date   Sample Date   Sample   Matrix   Sample   Matrix   Sample   Matrix   Sample   Matrix   Sample   Matrix   Sample   Matrix   Sample	Project Name: CTO N6274223F0104	Project#: 60697810			X) #IC	o se)			+,	nietm		W - pH 4-5 Z other (specify)
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Eurofins FGS, Seattle 5755 8th Street East Tacoma WA 98424	Chai	n of Cus	Chain of Custody Record	cord				🕏 eurofins	Env roamen Testing America
Client Information	Sampler TESSP M VR.PHY		Lab PM: Elaine Walker	Walker		Carrier Tracking No(s): FedEx	1 No(s):	COC No: 2303W4AFEA10	0
	Phone:	6	E-Mail: M Elair	e Walker(	E-Mail: M Elaine Walker@EurofinsET com	State of Origin Hawaii		Page: Page 1 of 1	
Сомралу   АЕСОМ		PWSID			Analysi	Analysis Requested	S	Job #:	
nop St. Suite 1600	Due Date Requested see subcontract						<i>A</i>	Preservation Codes.	
	TAT Requested (days). Rus	). Rush - ASAP		ļ			`\	B - NaOH C - Zn Acetate	
State, Zip: Hawaii 96813	iance Project:	∆ Yes ∆ No		oueyja				D - Nitric Acid	
Phone: 808-954-4512 / 770-331-0794	PO #:		(0)					G - Amchlor H - Ascorbic Acid	
om)/ Mark Kromis (mark.kromis@aecom.com)	: MO#:		10 58	(ON )					
	Project #: 60697810		Y) elc	o sey					w - pH 4-5 Z - other (specify)
	SSOW#:		Same	) asv				Other	
Samule Identification	Sample Date Time	Sample Type ple (C=comp,	Matrix et (N=water E. S=solid, O=waterloll,	erform MS/l o1sc_DAI_GI				Cotal Mumbe	Special Instructions/Note
	/_	T	ation Code:	$\mathbf{x}$					
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sted   II III IV Other (specify)	Prelim data (Leve	1 1 1 1 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1 1 or 2) = see TAT above. DoD Stage	Special In	structions/QC Req	Special Instructions/QC Requirements DOD QSM project.	1	Samuel Malatana and a samuel an	
quished by	-			Time		Method of	Method of Shipment:		
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	Date/Time:	1	Company	Received by	NR .na pa	water and dispersion of the local dispersion of the lo	Date/Time; 2	3 /030	Company
Relinquished by:	Date/Time:		Сотрапу	Received by	ed by:		Date/Time:		Company
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									Ver 01/16/2019

Client: AECOM Job Number: 580-125692-1

Login Number: 125692 List Source: Eurofins Seattle

List Number: 1

Creator: Presley, Kim A

Answer	Comment
N/A	
True	
N/A	
	N/A N/A N/A N/A N/A True True True True N/A

**Eurofins Seattle** 

Client: AECOM Job Number: 580-125692-1

Login Number: 125692 List Source: Eurofins Savannah List Number: 2 List Creation: 04/08/23 02:53 PM

Creator: Johnson, Corey M

Sample containers have legible labels.

Sample collection date/times are provided.

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

Containers requiring zero headspace have no headspace or bubble is

Appropriate sample containers are used.

Containers are not broken or leaking.

Sample bottles are completely filled.

Multiphasic samples are not present.

Samples do not require splitting or compositing.

Sample Preservation Verified.

Residual Chlorine Checked.

HTs)

MS/MSDs

<6mm (1/4").

, · · ·		
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	True	

True

True

True

True

True

N/A

True

N/A

True

True

N/A