

**Environment Testing** 

# **ANALYTICAL REPORT**

# PREPARED FOR

5 6

Attn: Terri Choy AECOM 1001 Bishop Street Honolulu, Hawaii 96813 Generated 3/30/2023 12:32:46 PM

# JOB DESCRIPTION

Red Hill - AFFF Assessment Sampling

# **JOB NUMBER**

580-125177-1

Eurofins Seattle 5755 8th Street East Tacoma WA 98424





## **Eurofins Seattle**

## Job Notes

This report is issued solely for the use of the person or company to whom it is addressed. Any use, copying or disclosure other than by the intended recipient is unauthorized. If you have received this report in error, please notify the sender and destroy this report immediately. This report shall not be reproduced except in full, without prior express written approval by the laboratory.

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

Generated 3/30/2023 12:32:46 PM

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

# **Table of Contents**

Cover Page	1
Table of Contents	3
Case Narrative	4
Definitions	5
Client Sample Results	6
QC Sample Results	9
Chronicle	10
Certification Summary	11
Sample Summary	12
Chain of Custody	13
Receipt Checklists	19

## Job ID: 580-125177-1

#### Laboratory: Eurofins Seattle

#### Narrative

## CASE NARRATIVE Client: AECOM Project: Red Hill - AFFF Assessment Sampling Report Number: 580-125177-1

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 3/23/2023 1:00 PM. 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 5.9° 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-HDMW225303-WGN01LF-2303W3 (580-125177-1), AF-RHMW10-WGN01LF-2303W3 (580-125177-2) and AF-RHMW225401-WGN01B-2303W3 (580-125177-3) were analyzed for glycols in accordance with EPA SW-846 Method 8015B - DAI. The samples were analyzed on 03/28/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

## **Definitions/Glossary**

#### Client: AECOM Project/Site: Red Hill - AFFF Assessment Sampling

Job ID: 580-125177-1

4

## 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
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

## **Client Sample Results**

Client: AECOM Project/Site: Red Hill - AFFF Assessment Sampling Job ID: 580-125177-1

5

#### Client Sample ID: AF-HDMW225303-WGN01LF-2303W3 Lab Sample ID: 580-125177-1 Date Collected: 03/21/23 10:00 Matrix: Water Date Received: 03/23/23 13:00 Method: SW846 8015C GLY - Glycols- Direct Injection (GC/FID) Result Qualifier Analyte LOQ DL Unit D Prepared Analyzed Dil Fac 3.0 U M 2-(2-Butoxyethoxy)ethanol 5.0 1.1 mg/L 03/28/23 20:30 1

## **Client Sample Results**

Job ID: 580-125177-1

Matrix: Water

5

Lab Sample ID: 580-125177-2

Client: AECOM Project/Site: Red Hill - AFFF Assessment Sampling

### Client Sample ID: AF-RHMW10-WGN01LF-2303W3 Date Collected: 03/21/23 12:55 Date Received: 03/23/23 13:00

Method: SW846 8015C GLY -	<b>Glycols-Dir</b>	ect Injectio	n (GC/FID)						
Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
2-(2-Butoxyethoxy)ethanol	3.0	U	5.0	1.1	mg/L			03/28/23 20:54	1

## **Client Sample Results**

Client: AECOM Project/Site: Red Hill - AFFF Assessment Sampling Job ID: 580-125177-1

5

#### Client Sample ID: AF-RHMW225401-WGN01B-2303W3 Lab Sample ID: 580-125177-3 Date Collected: 03/22/23 10:15 Matrix: Water Date Received: 03/23/23 13:00 Method: SW846 8015C GLY - Glycols- Direct Injection (GC/FID) Result Qualifier Analyte LOQ DL Unit D Prepared Analyzed Dil Fac 3.0 U 2-(2-Butoxyethoxy)ethanol 5.0 1.1 mg/L 03/28/23 21:17 1

## **QC Sample Results**

#### Client: AECOM Project/Site: Red Hill - AFFF Assessment Sampling

Job ID: 580-125177-1

5 6 7

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

Lab Sample ID: MB 680-770 Matrix: Water	0129/10						•	Clie	nt Sam	ple ID: M Prep Ty		
Analysis Batch: 770129												
	Ν	IB MB										
Analyte	Res	ult Qualifier	L	DQ	DL Un	it	D	Pr	repared	Analyz	zed	Dil Fac
2-(2-Butoxyethoxy)ethanol		3.0 UM		5.0	1.1 mg	/L				03/28/23	20:07	
Lab Sample ID: LCS 680-77	70129/1006					С	lient	Sar	nple ID	: Lab Cor	ntrol Sa	ample
Matrix: Water										Prep Ty	pe: Tot	tal/N/
Analysis Batch: 770129												
			Spike	LCS	LCS					%Rec		
Analyte			Added		Qualifie	r Unit		D	%Rec	Limits		
2-(2-Butoxyethoxy)ethanol			20.0	20.1		mg/L			101	50 - 150		
Lab Sample ID: LCSD 680-	770129/7					Client	Sam	ple	ID: Lab		Sample	e Dur
Matrix: Water										Prep Ty		
Analysis Batch: 770129												
Analysis Batch: 770129			Spike	LCSD	LCSD					%Rec		RPI
			Spike Added	-	LCSD Qualifie	r Unit		D	%Rec	%Rec Limits	RPD	
Analyte			•	-		r <u>Unit</u> mg/L		<b>D</b>	% <b>Rec</b>		<b>RPD</b> 11	Limi
Analysis Batch: 770129 Analyte 2-(2-Butoxyethoxy)ethanol Lab Sample ID: 580-125177			Added	Result 22.4	Qualifie	mg/L	AF-F	_	112	Limits	11	Limi 50
Analyte 2-(2-Butoxyethoxy)ethanol	7-3 MS		Added	Result 22.4	Qualifie	mg/L	AF-F	_	112	Limits 50 - 150	11 01B-23	Limi 50
Analyte 2-(2-Butoxyethoxy)ethanol Lab Sample ID: 580-125177	7-3 MS		Added	Result 22.4	Qualifie	mg/L	AF-F	_	112	Limits 50 - 150	11 01B-23	Limi 50
Analyte 2-(2-Butoxyethoxy)ethanol Lab Sample ID: 580-125177 Matrix: Water	7-3 MS Sample S	Sample	Added	Result 22.4 Clie	Qualifie	mg/L	AF-F	_	112	Limits 50 - 150	11 01B-23	Limi 50
Analyte 2-(2-Butoxyethoxy)ethanol Lab Sample ID: 580-125177 Matrix: Water Analysis Batch: 770129		•	Added	Result 22.4 Clie MS	Qualifie	mg/L	AF-F	_	112	Limits 50 - 150 401-WGN0 Prep Ty	11 01B-23	
Analyte 2-(2-Butoxyethoxy)ethanol Lab Sample ID: 580-125177 Matrix: Water Analysis Batch: 770129 Analyte	Sample S	Qualifier	Added 20.0 Spike	Result 22.4 Clie MS	Qualifie ent San MS	mg/L	AF-F	- RHN	112 /W2254	Limits 50 - 150 401-WGN0 Prep Ty %Rec	11 01B-23	Limi 50
Analyte 2-(2-Butoxyethoxy)ethanol Lab Sample ID: 580-125177 Matrix: Water Analysis Batch: 770129 Analyte 2-(2-Butoxyethoxy)ethanol	Sample S Result C 3.0 U	Qualifier	Added 20.0 Spike Added	Result 22.4 Clic MS Result 29.8	Qualifie ent San MS Qualifie	mg/L nple ID: r <u>uple ID:</u> mg/L		EHN	112 AW2254 <u>%Rec</u> 149	Limits 50 - 150 401-WGN0 Prep Ty %Rec Limits 50 - 150	11 01B-23 pe: Tot	Limi 50 03W3 tal/NA
Analyte 2-(2-Butoxyethoxy)ethanol Lab Sample ID: 580-125177 Matrix: Water Analysis Batch: 770129 Analyte 2-(2-Butoxyethoxy)ethanol Lab Sample ID: 580-125177	Sample S Result C 3.0 U	Qualifier	Added 20.0 Spike Added	Result 22.4 Clic MS Result 29.8	Qualifie ent San MS Qualifie	mg/L nple ID: r <u>uple ID:</u> mg/L		EHN	112 AW2254 <u>%Rec</u> 149	Limits 50 - 150 401-WGN0 Prep Ty %Rec Limits 50 - 150 401-WGN0	 01B-23 pe: Tot  01B-23	Limi 503W3 tal/N/
Analyte 2-(2-Butoxyethoxy)ethanol Lab Sample ID: 580-125177 Matrix: Water Analysis Batch: 770129 Analyte 2-(2-Butoxyethoxy)ethanol Lab Sample ID: 580-125177 Matrix: Water	Sample S Result C 3.0 U	Qualifier	Added 20.0 Spike Added	Result 22.4 Clic MS Result 29.8	Qualifie ent San MS Qualifie	mg/L nple ID: r <u>uple ID:</u> mg/L		EHN	112 AW2254 <u>%Rec</u> 149	Limits 50 - 150 401-WGN0 Prep Ty %Rec Limits 50 - 150	 01B-23 pe: Tot  01B-23	Limi 503W3 tal/N/
Analyte 2-(2-Butoxyethoxy)ethanol Lab Sample ID: 580-125177 Matrix: Water	Sample S Result C 3.0 U	Qualifier	Added 20.0 Spike Added	Result 22.4 Clic MS Result 29.8	Qualifie ent San MS Qualifie ent San	mg/L nple ID: r <u>uple ID:</u> mg/L		EHN	112 AW2254 <u>%Rec</u> 149	Limits 50 - 150 401-WGN0 Prep Ty %Rec Limits 50 - 150 401-WGN0	 01B-23 pe: Tot  01B-23	Limi 50 03W3 tal/NA
Analyte 2-(2-Butoxyethoxy)ethanol Lab Sample ID: 580-125177 Matrix: Water Analysis Batch: 770129 Analyte 2-(2-Butoxyethoxy)ethanol Lab Sample ID: 580-125177 Matrix: Water	Sample S Result C 3.0 C	Qualifier	Added 20.0 Spike Added 20.0	Result 22.4 Clic MS Result 29.8 Clic MSD	Qualifie ent San MS Qualifie ent San	mg/L ple ID: <u>r</u> <u>Unit</u> mg/L ple ID:		EHN	112 AW2254 <u>%Rec</u> 149	Limits 50 - 150 401-WGN0 Prep Ty %Rec Limits 50 - 150 401-WGN0 Prep Ty	 01B-23 pe: Tot  01B-23	Limi 503W3 tal/NA

	ple ID: AF-	HDMW22530	3-WGN0	1LF-2303	W3		Lab	Sample ID:	580-125177-
Date Collecte	d: 03/21/23 1	0:00						-	Matrix: Wate
Date Receive	d: 03/23/23 1	3:00							
_	Batch	Batch		Dilution	Batch			Prepared	
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed	
					770129		EET CAV	03/28/23 20:30	
Total/NA	Analysis	8015C GLY		1	110129	JCK	EET SAV	03/20/23 20.30	
			GN01LF-2	<sup>1</sup> 2303W3	770129	JCK			580-125177-
	ple ID: AF-	RHMW10-WC	GN01LF-2	1 2303W3	770129			Sample ID:	580-125177- Matrix: Wate
Client Sam	ple ID: AF- d: 03/21/23 1	RHMW10-WC 2:55	GN01LF-2	1 2303W3	770129				
- Client Sam Date Collecte	ple ID: AF- d: 03/21/23 1	RHMW10-WC 2:55	GN01LF-2	1 2303W3 Dilution	Batch	JCK			
- Client Sam Date Collecte	ple ID: AF- d: 03/21/23 1 d: 03/23/23 1	RHMW10-WC 2:55 3:00	GN01LF-2		Batch	Analyst		Sample ID:	

Lab Chronicle

Date Received: 03/23/23 13:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8015C GLY		1	770129	JCK	EET SAV	03/28/23 21:17

Laboratory References:

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

3/30/2023

## Accreditation/Certification Summary

Client: AECOM Project/Site: Red Hill - AFFF Assessment Sampling

5

8 9 10

## Laboratory: Eurofins Savannah

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority ANAB	Program Dept. of Defense ELAP	Identification Number	Expiration Date 09-22-24
The following analytes are included in this the agency does not offer certification.	report, but the laboratory is not certifi	ed by the governing authority.	This list may include analytes for which

 Analysis Method
 Prep Method
 Matrix
 Analyte

 8015C GLY
 Water
 2-(2-Butoxyethoxy)ethanol

## Sample Summary

Collected

03/21/23 10:00 03/23/23 13:00

03/21/23 12:55 03/23/23 13:00

03/22/23 10:15 03/23/23 13:00

Received

Matrix

Water

Water

Water

### Client: AECOM Project/Site: Red Hill - AFFF Assessment Sampling

AF-HDMW225303-WGN01LF-2303W3

AF-RHMW225401-WGN01B-2303W3

AF-RHMW10-WGN01LF-2303W3

**Client Sample ID** 

Lab Sample ID

580-125177-1

580-125177-2

580-125177-3

Job	١D·	580-125177	-1
000	ю.	000 120111	

5
8
9

Page 12 of 19

**Eurofins FGS, Seattle** 

5755 8th Street East

Tacoma, WA 98424

## Chain of Custody Record

#### 🔅 eurofins Environment Testing

America

Relinguished by:     Date/Time:     J J J / J J J J J J J J J J J J J J J J																						
Land         Proc. 371-57/2         Proc.         Proc. Write (Proc. 571-57)/2         Proc. 1000000000000000000000000000000000000	Client Information	Sampler. And	y touch	المتكر			aiker								acking	) No(s	);				14	
Description         DP-2010         DEfailer Values(Electronic Electronic Electr		Phone:	<u>~</u>	**************************************											Drigin:							
Accode         Analysis Requested         Preservation Code:           Address:         Over Bus Marching         Analysis Requested         Preservation Code:           Marching         The Requesting         Analysis Requested         Preservation Code:           Marching         Constitute Requesting         Constitute Requesting         Preservation Code:           Marching         Sonple Disposed (Anal		THC -	511-51		<u>M.</u>	Elaine	Walk	er@Eu	rofin	sET.c	<u>om</u>		Ha	waii	-					Page 1 of 1		
1010 Biolog St Suite 1600       Leve subcortinat       An Regulated Gavit       Non-Regulated Gavi	AECOM			PWSID:						Апа	liysi	s Re	que	stec	ł					Job #:		
Chy         TAT Reserve (den)         TAT Res						1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1									]	T		A			-	
Honolulu         Rush-ASAP           Bind:         Complexity															1		X					
Sample Identification       Sample Date       Sample Identification       Sample Identificatidentification       Sample Identific		_	Rush -	ASAP			5								ŀ		1			C - Zn Acetate	O - AsNaO2	
Sample Identification       Sample Date       Sample Identification       Sample Identificatidentification       Sample Identific		Compilance Proje	ct: ∆ Yes	4 No		-	then		ĺ											E - NaHSO4	Q - Na2SO3	
Sample Identification       Sample Date       Sample Identification       Sample Identificatidentification       Sample Identific		PO #:				-	-						۸ V	1	鬠	1		ľ		G - Amchlor	S - H2SO4	
Sample Identification       Sample Date       Sample Identification       Sample Identificatidentification       Sample Identific	Email:	wo#:				-2	n ŝ					7	$\mathcal{Y}$	₽∼						i - Ice	U - Acetone	drate
Sample Identification       Sample Date       Sample Identification       Sample Identificatidentification       Sample Identific		Dealerstafe				- 5	vio,					$\Psi_{\omega}$	∦∕∖	{		1		ľ	ē.			
Sample Identification       Sample Date       Sample Identification       Sample Identificatidentification       Sample Identific						e e	9		Ī	1	V	$\mathcal{V}$	h-f	ð.					E.			
Sample Identification       Sample Date       Sample Identification       Sample Identificatidentification       Sample Identific		SSOW#:				- ŝi	512			K	V	1v	15							Other:		
Sample Identification     Sample Date     Sample Corony, Internative State     Second Instructions/Note:       AP-HDAW225303-WGN01LF-2303W3     5/72.1/2.3     1/200     G     W     N     X     A <td< td=""><td>Knor</td><td>-<b> </b></td><td>r</td><td>T</td><td>T</td><td>-58</td><td></td><td></td><td></td><td>1</td><td>1</td><td>&gt; `</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	Knor	- <b> </b>	r	T	T	-58				1	1	> `										
Sample Identification     Sample Date     Sample Corony, Internative State     Second Instructions/Note:       AP-HDAW225303-WGN01LF-2303W3     5/72.1/2.3     1/200     G     W     N     X     A <td< td=""><td></td><td></td><td></td><td></td><td></td><td>lter.</td><td>Ā</td><td></td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>201</td><td>E.</td><td></td><td></td><td></td></td<>						lter.	Ā		X									201	E.			
AF. HDM/V225303-WGN01LF-2303W3       5/7.1/2.3       1/200       G       W       N       N       X         AF. HDM/V225303-WGN01LF-2303W3       5/7.1/2.3       1/200       G       W       N       N       X         AF. HDM/V225303-WGN01LF-2303W3       5/7.1/2.3       1/200       G       W       N       N       X         AF. HDM/V225303-WGN01LF-2303W3       5/7.1/2.3       1/200       G       W       N       N       X         AF. HDM/V225303-WGN01LF-2303W3       5/7.1/2.5       1/2       G       W       N       N       X         Status       G       W       N       N       X       G       W       N       N       X         Status       G       W       N       N       X       G       G       W       N       N       X         Status       G       G       W       N       N       X       G       G       G       W       N       N       S       G       G       G       W       N       N       S       G       G       G       G       G       G       G       G       G       G       G       G       G       G <t< td=""><td></td><td></td><td>Sample</td><td></td><td>S=solid,</td><td>E P</td><td>្ត្រ</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>Ż</td><td></td><td></td><td></td></t<>			Sample		S=solid,	E P	្ត្រ												Ż			
AF. HDM/V225303-WGN01LF-2303W3       5/7.1/2.3       1/200       G       W       N       N       X         AF. HDM/V225303-WGN01LF-2303W3       5/7.1/2.3       1/200       G       W       N       N       X         AF. HDM/V225303-WGN01LF-2303W3       5/7.1/2.3       1/200       G       W       N       N       X         AF. HDM/V225303-WGN01LF-2303W3       5/7.1/2.3       1/200       G       W       N       N       X         AF. HDM/V225303-WGN01LF-2303W3       5/7.1/2.5       1/2       G       W       N       N       X         Status       G       W       N       N       X       G       W       N       N       X         Status       G       W       N       N       X       G       G       W       N       N       X         Status       G       G       W       N       N       X       G       G       G       W       N       N       S       G       G       G       W       N       N       S       G       G       G       G       G       G       G       G       G       G       G       G       G       G <t< td=""><td>Sample Identification</td><td>Sample Date</td><td>f .</td><td></td><td>OrwasteloE, BT=Tissue, AnAb</td><td>, 문 문</td><td>801</td><td>  </td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>ē</td><td>Special In</td><td>structions/Note</td><td>:</td></t<>	Sample Identification	Sample Date	f .		OrwasteloE, BT=Tissue, AnAb	, 문 문	801												ē	Special In	structions/Note	:
Possible Hazard Identification       3121133         Possible Hazard Identification       3121133         Possible Hazard Identification       3121133         Possible Hazard Identification       Skin Initiant         Possible Hazard Identification       Skin Initiant         Possible Hazard Identification       Preim data (Level Tor2)=see TAT above. Dub Stage         Beliverable Requested: 1.11. III. IV. Other (specify)       Preim data (Level Tor2)=see TAT above. Dub Stage         Employ Mit Relinquished by:       Date:         Time:       Method Shipment:         Regulate by:       Date:         Time:       Method Shipment:         Mandy Expression       31/21/123         Size 12, 13, 54       Company         Aventy Based No::       Date:         Custody Seals Intact:       Date:         Custody Seals Intact:       Company         Custody Seals Intact:       Context Stage No::         A ves A No       Context Stage No::		$\overline{\mathbb{N}}$	$\geq$	Preserv	ation Code:	$\otimes$					T							D	X	A second		in the second
Possible Hazard Identification       3121133         Possible Hazard Identification       3121133         Possible Hazard Identification       3121133         Possible Hazard Identification       Skin Initiant         Possible Hazard Identification       Skin Initiant         Possible Hazard Identification       Preim data (Level Tor2)=see TAT above. Dub Stage         Beliverable Requested: 1.11. III. IV. Other (specify)       Preim data (Level Tor2)=see TAT above. Dub Stage         Employ Mit Relinquished by:       Date:         Time:       Method Shipment:         Regulate by:       Date:         Time:       Method Shipment:         Mandy Expression       31/21/123         Size 12, 13, 54       Company         Aventy Based No::       Date:         Custody Seals Intact:       Date:         Custody Seals Intact:       Company         Custody Seals Intact:       Context Stage No::         A ves A No       Context Stage No::	AF-HDMW225303-WGN01LF-2303W3	312,123	1000	G	w	NI	ı X					1							3			
Sourcestrip         Possible Hazard Identification         Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)         Return To Client       Disposal By Lab         Prelim data (Level 1072)=see TAT above. DoD Stage       Special Instructions/DC Requirements: DOD QSM project.         Empty Kit Relinquished by:       Prelim data (Level 1072)=see TAT above. DoD Stage       Special Instructions/DC Requirements: DOD QSM project.         Empty Kit Relinquished by:       Pate/Time:       Date/Time:       Method of Shipment:         Relinquished by:       Date/Time:       S/2/1/23       135.4       AECOM         A FE / FL / MST / 3       Date/Time:       S/2/2/23       Company         A FE / FL / MST / 3       Date/Time:       Company         A FE / FL / MST / 3       Date/Time:       Company         A Yes Δ No       Date/Time:       Cooler Temperature(s) *C and Other Remarks:       5.9/5.9				+								1							<u>-</u>		~~~~~~	
Sourcestrip         Possible Hazard Identification         Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)         Return To Client       Disposal By Lab         Prelim data (Level 1072)=see TAT above. DoD Stage       Special Instructions/DC Requirements: DOD QSM project.         Empty Kit Relinquished by:       Prelim data (Level 1072)=see TAT above. DoD Stage       Special Instructions/DC Requirements: DOD QSM project.         Empty Kit Relinquished by:       Pate/Time:       Date/Time:       Method of Shipment:         Relinquished by:       Date/Time:       S/2/1/23       135.4       AECOM         A FE / FL / MST / 3       Date/Time:       S/2/2/23       Company         A FE / FL / MST / 3       Date/Time:       Company         A FE / FL / MST / 3       Date/Time:       Company         A Yes Δ No       Date/Time:       Cooler Temperature(s) *C and Other Remarks:       5.9/5.9						11			_		_	1					7	-	<u> </u>			
Sourcestrip         Possible Hazard Identification         Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)         Return To Client       Disposal By Lab         Prelim data (Level 1072)=see TAT above. DoD Stage       Special Instructions/DC Requirements: DOD QSM project.         Empty Kit Relinquished by:       Prelim data (Level 1072)=see TAT above. DoD Stage       Special Instructions/DC Requirements: DOD QSM project.         Empty Kit Relinquished by:       Pate/Time:       Date/Time:       Method of Shipment:         Relinquished by:       Date/Time:       S/2/1/23       135.4       AECOM         A FE / FL / MST / 3       Date/Time:       S/2/2/23       Company         A FE / FL / MST / 3       Date/Time:       Company         A FE / FL / MST / 3       Date/Time:       Company         A Yes Δ No       Date/Time:       Cooler Temperature(s) *C and Other Remarks:       5.9/5.9									. [								ĺ	1				
Sourcestrip         Possible Hazard Identification         Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)         Return To Client       Disposal By Lab         Prelim data (Level 1072)=see TAT above. DoD Stage       Special Instructions/DC Requirements: DOD QSM project.         Empty Kit Relinquished by:       Prelim data (Level 1072)=see TAT above. DoD Stage       Special Instructions/DC Requirements: DOD QSM project.         Empty Kit Relinquished by:       Pate/Time:       Date/Time:       Method of Shipment:         Relinquished by:       Date/Time:       S/2/1/23       135.4       AECOM         A FE / FL / MST / 3       Date/Time:       S/2/2/23       Company         A FE / FL / MST / 3       Date/Time:       Company         A FE / FL / MST / 3       Date/Time:       Company         A Yes Δ No       Date/Time:       Cooler Temperature(s) *C and Other Remarks:       5.9/5.9					1	П			1		-				1		1		ी			
Sourcestrip         Possible Hazard Identification         Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)         Return To Client       Disposal By Lab         Prelim data (Level 1072)=see TAT above. DoD Stage       Special Instructions/DC Requirements: DOD QSM project.         Empty Kit Relinquished by:       Prelim data (Level 1072)=see TAT above. DoD Stage       Special Instructions/DC Requirements: DOD QSM project.         Empty Kit Relinquished by:       Pate/Time:       Date/Time:       Method of Shipment:         Relinquished by:       Date/Time:       S/2/1/23       135.4       AECOM         A FE / FL / MST / 3       Date/Time:       S/2/2/23       Company         A FE / FL / MST / 3       Date/Time:       Company         A FE / FL / MST / 3       Date/Time:       Company         A Yes Δ No       Date/Time:       Cooler Temperature(s) *C and Other Remarks:       5.9/5.9			2			炐	+-				-								ND I HE		II I FALL I ALI I ALI I ALI	
Sourcestrip         Possible Hazard Identification         Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)         Return To Client       Disposal By Lab         Prelim data (Level 1072)=see TAT above. DoD Stage       Special Instructions/DC Requirements: DOD QSM project.         Empty Kit Relinquished by:       Prelim data (Level 1072)=see TAT above. DoD Stage       Special Instructions/DC Requirements: DOD QSM project.         Empty Kit Relinquished by:       Pate/Time:       Date/Time:       Method of Shipment:         Relinquished by:       Date/Time:       S/2/1/23       135.4       AECOM         A FE / FL / MST / 3       Date/Time:       S/2/2/23       Company         A FE / FL / MST / 3       Date/Time:       Company         A FE / FL / MST / 3       Date/Time:       Company         A Yes Δ No       Date/Time:       Cooler Temperature(s) *C and Other Remarks:       5.9/5.9		601	1	$\Rightarrow$		╉╍╋╌	+	┢─┼-	-													
Sourcestrip         Possible Hazard Identification         Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)         Return To Client       Disposal By Lab         Prelim data (Level 1072)=see TAT above. DoD Stage       Special Instructions/DC Requirements: DOD QSM project.         Empty Kit Relinquished by:       Prelim data (Level 1072)=see TAT above. DoD Stage       Special Instructions/DC Requirements: DOD QSM project.         Empty Kit Relinquished by:       Pate/Time:       Date/Time:       Method of Shipment:         Relinquished by:       Date/Time:       S/2/1/23       135.4       AECOM         A FE / FL / MST / 3       Date/Time:       S/2/2/23       Company         A FE / FL / MST / 3       Date/Time:       Company         A FE / FL / MST / 3       Date/Time:       Company         A Yes Δ No       Date/Time:       Cooler Temperature(s) *C and Other Remarks:       5.9/5.9		1	1																			
Sourcestrip         Possible Hazard Identification         Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)         Return To Client       Disposal By Lab         Prelim data (Level 1072)=see TAT above. DoD Stage       Special Instructions/DC Requirements: DOD QSM project.         Empty Kit Relinquished by:       Prelim data (Level 1072)=see TAT above. DoD Stage       Special Instructions/DC Requirements: DOD QSM project.         Empty Kit Relinquished by:       Pate/Time:       Date/Time:       Method of Shipment:         Relinquished by:       Date/Time:       S/2/1/23       135.4       AECOM         A FE / FL / MST / 3       Date/Time:       S/2/2/23       Company         A FE / FL / MST / 3       Date/Time:       Company         A FE / FL / MST / 3       Date/Time:       Company         A Yes Δ No       Date/Time:       Cooler Temperature(s) *C and Other Remarks:       5.9/5.9			3																			
Possible Hazard Identification       Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)         Non-Hazard       Flammable       Skin Irritant       Poison B       Dritknown       Radiological       Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)         Deliverable Requested 1; 11, 11, 11, N, Other (specify)       Prelim data (Level 1or2)=see TAT above. DoD Stage       Special Instructions/OC Requirements:       DOD QSM project.         Empty Kit Relinquished by:       PaterTime:       Date       Time:       Method of Shipment:         Relinquished by:       DateTime:       3/21/23       135 4       Company         A Lef A MON dia       DateTime:       3/22/23       Company         A Lef A MON dia       DateTime:       Company       Received by:         A Lef A MON dia       DateTime:       Company       Received by:         A Lef A MON dia       DateTime:       Company       Received by:         A Lef A MON dia       DateTime:       Company       Received by:       DateTime:         Custody Seals Intact:       Date/Vine:       Date/Time:       Cooler Temperature(s) *C and Other Remarks:       3.9/5.9		3	9						1						580	нын 0-12	5177	Ch	ain	of Custody	, 2005120013601 .	
Mon-Hazard       Flammable       Skin Imitant       Poison B       Omknown       Radiological       Return To Client       Disposal By Lab       Archive For       Months         Deliverable Requested: I, II, III, IV, Other (specify)       Prelim data (Level 1or2)=see TAT above. DoD Stage       Special Instructions/OC Requirements: DOD QSM project.       Archive For       Months         Empty Kit Relinquished by:       Date:       Date:       Time:       Method of Shipment:         Relinquished by:       Date:       Date:       Company       Regeived by:       Date://Ima:						╉╋	+				1		)								·····	
Mon-Hazard       Flammable       Skin Imitant       Poison B       Omknown       Radiological       Return To Client       Disposal By Lab       Archive For       Months         Deliverable Requested: I, II, III, IV, Other (specify)       Prelim data (Level 1or2)=see TAT above. DoD Stage       Special Instructions/OC Requirements: DOD QSM project.       Archive For       Months         Empty Kit Relinquished by:       Date:       Date:       Time:       Method of Shipment:         Relinquished by:       Date:       Date:       Company       Regeived by:       Date://Ima:		++				╀╂					-						· [	- <u>[</u> ]	Ŧ	· · · · · · · · · · · · · · ·		
Mon-Hazard       Flammable       Skin Imitant       Poison B       Omknown       Radiological       Return To Client       Disposal By Lab       Archive For       Months         Deliverable Requested: I, II, III, IV, Other (specify)       Prelim data (Level 1or2)=see TAT above. DoD Stage       Special Instructions/OC Requirements: DOD QSM project.       Archive For       Months         Empty Kit Relinquished by:       Date:       Date:       Time:       Method of Shipment:         Relinquished by:       Date:       Date:       Company       Regeived by:       Date://Ima:							1	a /1 mai 14/		~~~							• • •	- 19 19				
Deliverable Requested: I, II, III, IV, Other (specify)     Prelim data (Level 10r2)=see TAT above. DoD Stage     Special Instructions/QC Requirements: DOD QSM project.       Empty Kit Relinquished by:     Date/Time:     Date/Time:     Method of Shipment:       Relinquished by:     Date/Time:     S/21/23     1354     AECOM       Relinquished by:     Date/Time:     Method of Shipment:       Relinquished by:     Date/Time:     S/21/23     1354     AECOM       Relinquished by:     Date/Time:     S/21/23     1354     AECOM       Relinquished by:     Date/Time:     S/21/23     1354     AECOM       Relinquished by:     Date/Time:     S/22/23     Company     Received by:       AI Er Ed MON dig     Date/Time:     Company     Received by:     Date/Time:       Custody Seals Intact:     Custody Seal No.:     Date/Time:     Cooler Temperature(s) *C and Other Remarks:     5.9/5.9		<b></b>	<u> </u>			Sa	imple	Dispo	sal (	A fee	e may	bea	sses	sed	if sa	mple	is are	reta	úne	d longer than 1	-	
4 report standard TAT. AECOM EQUIS EDD.       Empty Kit Relinquished by:     Date:     Time:     Method of Shipment:       Relinquished by:     Date:     Time:     Date:     Date:       Relinquished by:     Date:     Company     Regeived by:     Date:     Date:       Relinquished by:     Date:     Company     Regeived by:     Date:     Date:       Relinquished by:     Date:     Company     Regeived by:     Date:     Date:       A (E);     E();     Date:     Company     Received by:     Date:     Date:       A (E);     E();     Date:     Date:     Company     Received by:     Date:     Date:       Company     Received by:     Date:     Company     Received by:     Date:     Date:       Custody Seals Intact:     Custody Seal No.:     Cooler Temperature(s) *C and Other Remarks:     5.9/5.9					D.0.04	_											لسب ا	Ar	chiv	/e For	Months	
Empty Kit Relinquished by:     Date:     Time:     Method of Shipment:       Relinquished by:     Andy Koung agets     Date/Time:     3/2//23     1354     Company AECOM     A If y Ecomon vic     Date/Time:     3/2//23     1354     A Ecom       Relinquished by:     Date/Time:     3/2//23     1354     Company AECOM     A If y Ecomon vic     Date/Time:     3/2//23     1354       Relinquished by:     Date/Time:     Jate/Time:     Date/Time:     Company AECOM     Received by:     Date/Time:     Date/Time:     Company       Relinquished by:     Date/Time:     Date/Time:     Company     Received by:     Date/Time:     Company       Relinquished by:     Date/Time:     Date/Time:     Company     Received by:     Date/Time:     Company       Custody Seals Intact:     Custody Seal No.:     Cooler Temperature(s) *C and Other Remarks:     5.9/5.9	Deliverable Requested: 1, 11, 11, 1V, Other (specify)	4 report standar	dITAT. AE	COM EQuil	ve. Dod Sta S EDD.	ge St	ecial	Instruct	tions	AUC F	lequi	remer	nts: 1	DOD	QSN	/ pro	ject.					
Andry torung astro     3/2/23     1354     AECOM     Alfr tormonds     3/2/23     357     AFcom       Relinguised by:     Date/Time:     Date/Time:     Company     Received by:     Date/Time:     Date/Time:     Company       Relinguised by:     Date/Time:     Date/Time:     Company     Received by:     Date/Time:     Date/Time:     Company       Custody Seals Intact:     Custody Seal No.:     Cooler Temperature(s) °C and Other Remarks:     5.9/5.9	Empty Kit Relinquished by:					Time							T	Metho	d of S	ihipme	nt:					
Relinguisted by:     Date/Time:     J/22/23     1315     Company     Received by:     Date/Time:     Date/Time:     Company       Custody Seals Intact:     A Yes A No     Custody Seal No.:     Cooler Temperature(s) *C and Other Remarks:     5.9/5.9	Andy tenning agont S	3/21/23		1			Rece A	ived by:	r L	Ed.	no	nd	ζ.		[	) 3/	ime: 211	$\mathcal{L}$	3	1354	AFEDY	~
Relinquished by:     Date/Time:     Company     Received by:       Custody Seals Intact:     Custody Seals No.:     Cooler Temperature(s) *C and Other Remarks:     3-9/5-9	Relinguished by: Entrondo	Date/Time: 3/2.2/7	z 131	s		4			7	e	2				C	3	12:00	7	5	3		
Custody Seals Intact: Custody Seal No.: Cooler Temperature(s) *C and Other Remarks: 5-9/5-9	Relinguished by:		· ·			4	Rece	verby.				·			Ċ	ate/T	me: /	<b>-</b>	<u> </u>	1300	Company	
		L					Coole	r Tempe	rature	(s) °C ;	and Ot	her Rei	marks;	;		6	al	<u> </u>	9	<u>,                                     </u>		
							1									2	14	1-	1		Ver: 01/16/2019	

Ver: 01/16/2019

**.**•

Eurofins FGS, Seattle 5755 8th Street East

Tacoma, WA 98424

## Chain of Custody Record

## Curofins Environment Testing

America

	Sampler:				ab PM:			•••••••					rier Tr	acking	No(s	):			COC No:	
Client Information	TESSA MW	-241			laine V	Vaike	Γ						dEx						2303W3AFEA03	
Client Contact	Phone: 978-382-	5207			-Mail: I.Elain:	e.Wall	ker@E	urofi	nsET.	com			te of C waii	krigin:					Page: Page 1 of 1	
Company: AECOM			PWSID:						An	alys	is Re	eque	stec	1					Job #:	
Address: 1001 Bishop St. Suite 1600	Due Date Reques									T		T		Γ					Preservation Co	des: M - Hexane
City: Honolulu	TAT Requested (		ASAP									l				И			B - NaOH C - Zn Acetate	N - None O - AsNaO2
State, Zp: Hawaii 96813	Compliance Proje					Ioned									$\vee$				D - Nitric Acid E - NaHSO4	F - Na2O4S Q - Na2SO3
Phone: 808-954-4512 / 770-331-0794	P0 #:				-	e-lyso								$\vee$	1				F - MeOH G - Amchlor H - Ascorbic Acid	R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate
Email: Watson Tanji (watson.tanji@aecom.com)/ Mark Kromis (mark.kromis@aecom.com)	WO #:				s or N	No)						3	V					2	I - ice J - Ol Water	U - Acetone V - MCAA
Project Name: CTO N6274223F0104	Project #: 60697810				Sample (Yes or No	(2-but					12	P						of containera	K - EDTA L - EDA	W - pH 4-5 Z - other (specify)
Sile: RHSF	SSOW#:				Samp	MS/MSD (Yas				TP	1							of co	Other:	
		Sample	Sample Type (C=comp,	(Winnestar, Smolid,	Ē	e à			<b>1</b>									Total Number		
Sample Identification	Sample Date	Time	G=grab)	Ommente foll B7=Yissue, Am								1 125	. 253	-		65.3	-	P.	Special In	structions/Note:
	$\sim$	$\sim$		1		X A		1.112		-		9 .3.94 4	10140	्रम्भुवि	9368	1203	2632	4		
AF-RHMW10-WGN01LF-2303W3	3121/23	1255	G	w	N	N X										$ \rightarrow $		3		
					-+1	1			_	1	—	T				J	$\geq$	<u></u>		
					44					_				4	$\square$	$\square$				
					╇				_	┢	+	<b>—</b>					_			
				ļ	╧	_	┢╡	4									_			
		-17112			74	_		-+	-+	_		<u> </u>								
	m	312112			╺┼╂		┦┥								_		_		••••••••••••••••••••••••••••••••••••••	
					44		++				_	<b> </b>						94 23 23		
											_				-	_	_			*****
Possible Hazard Identification					Ц	Ц.	<u>L_</u> L			1	Ļ			<u>_</u>	<u> </u> †			<u>_</u>		
Non-Hazard Contraction	3 Unknown	Radio	ological				e Disp Return	To C	lient	e ma	ay be	asse: Dispo	ssea Isal B	п sa у Lai	трн b	es an		anne Archi	ed longer than 1 ive For	Months
Deliverable Requested: I, II, III, IV, Other (specify)	Prelim data (Lev 4 report standar				age S	pecia	Instru	ction	is/QC	Requ										
Empty Kit Relinquished by:		Date:			Time	9:							Metho	d of S	ihipme	int:				
Relinquished by Ionaly TESSA MUCHY	Date/Time: 3/21/23	1354		Company AECOM		Å	eived by ∕ ↔	XS	şì,	27	nd	£		0	Date/1	ime: と)	/7-	3	1354	SE-24
ALEY Ednends	Date/Time: 3/22/23	131	5	Company AECO	1		eived by	2	$\sim$	2		~		C	37	P	12	17		Company
Relinquished by:	Date/Time:			Company		Rec	eived by	· /	Γ					ſ	Ja <b>ų</b> €∕T	lme:	1	;	1300	Сотрапу
Custody Seals Intact: Custody Seal No.: Δ Yes Δ No						Coel	er Temp	oe foo	re(s) "C	and (	Other R	emarks	1:			5.	91	5.	9	
																×	#			Ver: 01/16/2019

#### **Eurofins FGS, Seattle**

#### 5755 8th Street East Tacoma, WA 98424

## Chain of Custody Record

eurofins

America

5

10

Client Information	Sampler: And	in You	درير		6 PM: aine W	Valke							Carri Fed		acking	g No(:	s}:			COC No: 2303W3AFEA0	7
Client Contact	Phone: 402-	-871-5	712		Mail: Elaine	.Wal	ker@E	Eurof	insET	f.con	<u></u>		State Hav	e of O vali	rigin:					Page: Page 1 of 1	
Company: AECOM			PWSID:		Τ				A	naly	rsis	Red	ues	sted	1					Job#:	
Address: 1001 Bishop St. Suite 1600	Due Date Reques see subcontrac	t						Ι										Γ		Preservation Co A - HCL	M - Hexane
City: Honolulu State, Zip:		Rush - /	ASAP		and the second		ē										1		2 19 19 10 2 19 19 10 2 19 19 19 19	B - NaOH C - Zn Acetate D - Nitric Acid	N - None O - AsNaO2 P - Na2O4S
Hawaii 96613 Phone:	Compliance Proje	ect: A Yes	A NO									Ŵ	A	$\mathbf{F}$	r"					E - NaHSO4 F - MeOH	Q - Na2SO3 R - Na2S2O3
808-954-4512 / 770-331-0794 Email:	WO #:				or No)		etrioxy				$\sim$		$\mathbf{x}^{\mathbf{z}}$							G - Amchlor H - Ascorbic Acid I - Ice	S - H2SO4 T - TSP Dodecahydrate U - Acetone
Watson Tanji (watson.tanji@aecom.com)/ Mark Kromis (mark.kromis@aecom.com)					ŝ	or No)	λ δ				4	Č,	3						2	J - DI Water	V - MCAA
Project Name: CTO N6274223F0104	Project #: 60697810						10-7		1			2							containers	K - EDTA L - EDA	W - pH 4-5 Z - other (specify)
Site: RHSF	SSOW#:				Sampl		160				5\								of cc	Other:	
		Sample	Sampie Type (C=comp,	Matrix (Wewster, Sesoid, Orwasta/oll	Field Filtered	Penorm MSIMSD (Yes of Na)													<b>Total Number of</b>		
Sample Identification	Sample Date	Time	G=grab)	8T=Tissue, A=A	- F.F.					1.17 m	-				2.33	2002	255		Ě	Special In	structions/Note:
				ation Code:	ŦŦ	X  /		1.45			1.2.2	<u>. 1</u>		10/13	. 2003 (	38C%	( Yes	18.20	$\Delta$		
AF-RHMW225401-WGN01B-2303W3	3/22/23	1015	G	W	NI	N)	<												3		
														·				_	taun.		
											_		-+							<u> </u>	
· · · · · · · · · · · · · · · · · · ·						+				-											
			5-						┢──┥	+			+								
/	S	15			╶╂╌╂╌														- (7) - (2)		
	128	τý		l	++													-			
	31			[															nki N		
																			2.00		
																		ľ			
		,				-												-			
Possible Hazard Identification	. <b>I</b>				s	amp	le Disp	oosa	I(A)	fee n	nay l	be as	sses	sed .	if sa	mpl	es ar	e rei	aine	ed longer than 1	month)
Non-Hazard Flammable Skin Irritant Poison B	บที่ผิกอพก	Aadio	ogical				Return	To	Client			D.	ispos	al B	y La	ь	. C		Irch	ive For	Months
Deliverable Requested: I, II, III, IV, Other (specify)	Prelim data (Lev 4 report standar				ige S	pecia	il Instru	uction	ns/Q(	C Re	quire	men	ts: C	DOD	QSN	/ pro	oject.				
Empty Kit Relinquished by:		Date:	A PARE COLLS		Time	E							N	Aetho	d of S	hipm	ent			• •	
Relinguished by Joury DSHS	Date/Time: 3 [22[23			Company AECOM		Red	ceived b	۶: <u>)</u>	<i>g</i> m	25	ť	1a	50.		1	Date/	Time:	12	3	12.50	Company AECO.Y
Relinquished by: James Mason	Date/Time: 3/22/23	B	S	Company AECOH	7	Rec	ceived by		~		V	-			1	Date	12	3/2	23		Company
Relinquished by:	Date/Time:			Company		Rec	érec b	y:		1							me:	7		1300	Company
Custody Seals Intact: Custody Seal No.:						Coc	oler Tem	perat	fe(s)	°C an	d Othe	er Rei	narks:	:			5.4	<u>1/4</u>	5-'	9	
																		7			Ver: 01/16/2019

.

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

**Chain of Custody Record** 

🐝 eurofins <sub>En onmen <sup>r</sup>estin<sup>e</sup> Amer ca</sub>

Client Information	Sampler A Jury Survey	Ŷ	Lab PM: Elaine Walker	×	Carrier Tracking No(s): FedEx	COC No <sup>-</sup> 2303W3AFEA04	
	Phone: Number 2	2	E-Mait: M Elaine Wa	E-mail: M Elaine Walker@EurofinsET com	State of Origin Hawaii	Page: Page 1 of 1	
Company AECOM		DISMA		Analysis Requested	tuested	Job #:	
hop St. Suite 1600	Due Date Requested see subcontract						
	TAT Requested (days): Rush - ASAP	ASAP				B - NaOH N - None C - Zn Acetate O - AsNaO	N - None O - AsNaO2
State Zip: Hawaii 96813	iance Project: △ Yes	∆ No		onsdie			
Phone. 808-954-4512 / 770-331-0794	PO #:		stanski gon	-( <b>/</b> ×oų	<u>A</u>		decahydrate
jaecom.com)/ Mark Kromis (mark.kromis@aecom.com)	-# OM		(oN 1			1 - Ice J - DI Water	
Project Name: CTO N6274223F0104	Project #: 60697810		o sey	, , , , , , , , , , , , , , , , , , ,	P	100000000000000000000000000000000000000	pecify)
	SSOW#:		) asv			r of co Other	
Comula I Jantification	Sample Date Time	Sample Matrix Type <sup>(Mawater</sup> (C=comp, <sup>S=solid</sup> G=orab) <sup>RT=Terev</sup>	Field Filtered Perform MS/N	10-12-04-61		Tumbe Zum Totecial Instructions/Note.	Note.
	(	Preservation Code:	X	×			
AF-HDMW225303-WGN01LF-2303W3	3/21/23 100	≥ ບ	z	×		3	
a saadahaanaa aaanaanaa aa kaanaa sastaanaa haraanaa saadaa aa a							
				A CONTRACT OF A			
		N					
		<u> </u>					
	142				580-12517	580-125177 Chain of Current	
	3100					original of custody	
	nonquis a de		, t			100 million (100 m	
Possible Hazard Identification Non-Hazard	Dmknown	Radiological	Sam	Die Disposal ( A fee may be Return To Client	assessed if samples are	Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)	s
sted I II III IV Other (specify)	Prelim data (Level 1or	2)=see TAT above Dol	D Stage Spec	Special Instructions/QC Requirements DOD QSM project.	ints DOD QSM project.		
1 by	Date:		Time:		Method of Shipment:		
Relinquished by Andry Converse and Star	Date/Time: 5/24/23 135	LI Company AECOM		Received by Edmond	$\int \frac{Date/Time}{3/2/}$	N2 13 54 Company	ۍ پ
e vor as	2/23 1	315 Company	М	Received by: "	Styles	SZZ Company	
	Date/Time <sup>.</sup>	Compa		Received by	Date/Time:	1 1300 Company	
Custody Seals Intact: Custody Seal No			0	Cooler Temperature(s) °C and Other Remarks.	emarks. 5.9/	5.9	

Ver 01/16/2019

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

# **Chain of Custody Record**

Cliant Information	Sampler TECLO, ANAM OUY	Lab PM: Flaine	Lab PM: Flaine Walker	Carrier Tracking No(s): FedFx	COC No: 2303W3AFFA03	
	Contraction of the second s			1 CULA State of Odolo		
Client Contact.	978-382-5207		e-waii. M Elaine Walker@EurofinsET com	Hawaii	Page 1 of 1	
Company AECOM	<b>DISMA</b>		Analysis Requested	equested	Job #:	
Address. 1001 Bishop St. Suite 1600	Due Date Requested. see subcontract					ane
City Honolulu	TAT Requested (days): Rush - ASAP		j,		B - NaOH N - Non C - Zn Acetate O - AsN	N - None O - AsNaO2
State. Zip: Hawaii 96813	Compliance Project: $\Delta$ Yes $\Delta$ No		onsitie			04S S03 S103
Phone: 808-954-4512 / 770-331-0794	PO#:					04 Dodecahvdrate
Email: Watson Tanji (watson.tanji@aecom com)/ Mark Kromis (mark.kromis@aecom.com)	:# 0M		(on		I - Ice J - Di Water	tone
	Project #: 60697810		IO 59 <i>)</i>		K - EDTA L - EDA	W - pH 4-5 Z - other (specify)
	.#MOSS		) asv		0 Other	
Samole Identification	Sample Sample (C=comp.	Matrix (W=water S=solid, O=wasteoli, B1=Tissue, A=Arr)	Perform MS/A Perform MS/A B015C_DAI_GL	iedmu <i>k</i> istoT	Special Instructions/Note:	ons/Note:
	X	ation Code.	X			
AF-RHMW10-WGN01LF-2303W3	3121/23 1255 6	>	XZZ	<u>е</u>	~	
	Π					
	TM 3121123					
Possible Hazard Identification Non-Hazard C Flammable Skin Irrijant Polson B		,  E	Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)  Return To Client Mon	assessed if samples are retai	etained longer than 1 mont Archive For Mo	o <b>nth)</b> Months
Other (specify)	Prelim data (Leve	Tabove DoD Stage	Special Instructions/QC Requirements DOD QSM project.			
by	4 report standard 1AL. AECOM EQUIS EUD. Date:		Time	Method of Shipment:		
* TESSA MURPHY	Date/Time 1354	Company AECOM	Received by A/E/E/MAN	Date/Time	1354 Company	N Ch
dron de	Date/Time: 3/22/23 1315	Company	Received by	C/ Crawlero	~	
		Company	Received by	Date/Time:	1300 Company	<u>ر</u>
Custody Seals Intact: Custody Seal No			Cooler Temperatore(s) °C and Other Remarks:	5.91	5.9	
						Ver 01/16/2019
				•		

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

# **Chain of Custody Record**

🐝 curofins En maen Te d Amurca

ъð

			- -				+		000		
Client Information	sampler Array	Kuru	6	Lab PM Elaine Walker	L		FedEx	cking No(s)	2303	CUC NO: 2303W3AFEA07	
	Phone: 4-2 27	11-571	E-M	ail Elaine Wal	E-Mail M Elaine Walker@EurofinsET com	ISET com	State of Origin: Hawaii	gin:	Page: Page	Page: Page 1 of 1	
Company AECOM		DISMA				Analysi:	Analysis Requested		₩ qor		
Address. 1001 Bishop St. Suite 1600	Due Date Requested see subcontract								Pres A - H	ğ	es. M - Hexane
City Honolulu	TAT Requested (days	) <sup>.</sup> Rush - ASAP						<u>`</u>		B - NaOH C - Zn Acetate	N - None O - AsNaO2
State, Zip: Hawaii 96813	Compliance Project:	A Yes A No			onsrite		J		222		P - Na204S Q - Na2SO3 P - Na2SO3
./ 770-331-0794	PO #:				-(Λχοι		×		2 < <  L U I	, D	N - Na23203 S - H2SO4 T - TSP Dodecahydrate
Email: Watson Tanji (watson.tanji@aecom.com)/ Mark Kromis (mark.kromis@aecom com)	WO #			(0N .	μəλχο	<u>(}.</u>	- L				U - Acetone V - MCAA
	Project #: 60697810			10 50/	ing-z)-	7	5			K - EDTA L - EDA	W - pH 4-5 Z - other (specify)
Site: RHSF	SSOW#:			) asv	z /90	~	>		of co	L	
Samola Mantification	Samule Date	Sar T <sub>J</sub> Sample (C=c Time G=r	Sample Matrix Type (Matrix (C=comp, S=solid, G=crah) PT-Trans Control	əld Filtered ⁰erform MS/N					ledmuŃ istoľ	Special Ins	Soecial Instructions/Note:
	$\Gamma$		0	X	×				X		
AF-RHMW225401-WGN01B-2303W3	3 22 53 1	<u>را ا</u>	M 9	z z	×				8		
		Printerson de la constanti de				-					
		17									
	5									-	
	P RAN	N.									
	3100										
		a (	year and the second sec	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	 						
Possible Hazard Identification				Sam	ple Disposal ( A f Deturn To Client	al (A fee ma	Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)	if samples al	e retained Ion □ Amhue Fo	onger than 1 <sub>Cor</sub>	month) Months
ested I II IV Other (specify)	Prelim data (	1or2)=see TA	Level 10r2)=see TAT above DoD Stage		tal Instructio	uns/QC Requ	Special Instructions/QC Requirements DOD QSM project	OSM project		5	CUUDAI
стана (Via Daharana)	4 report standard TAT. AECOM EQUIS EDD.	AT. AECOM	EQuIS EDD.	Limo			Metho	Method of Shipment:			
, contraction of the second se			Company	_	Received hv			Date/Time:			Company
men source as to	5 (22/23	1250				RIMES	16200	3/2	223	1250	
James Mason	Date/Time: 3/22/23	1315	Company		Received by			Dated ine	13/23		Company
	Date/Time <sup>.</sup>		Company		Rec <del>éved</del> by			Date/Fime:	, ,	300	Company
Custody Seals Intact: Custody Seal No Δ Yes Δ No					ooler Tempera	lefe(s) °C and	Cooler Temperatifie(s) °C and Other Remarks	5.9	9/5-9	<ul> <li>A real</li> </ul>	
									2		Ver 01/16/2019

## Login Sample Receipt Checklist

#### Client: AECOM

#### Login Number: 125177 List Number: 2 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	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Job Number: 580-125177-1

List Source: Eurofins Savannah

List Creation: 03/27/23 04:45 PM