



# ANALYTICAL REPORT

## PREPARED FOR

Attn: Terri Choy  
AECOM  
1001 Bishop Street  
Honolulu, Hawaii 96813  
Generated 5/15/2023 3:30:16 PM

## JOB DESCRIPTION

Red Hill - AFFF Assessment Sampling

## JOB NUMBER

580-126957-1

# Eurofins Seattle

## Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northwest, LLC Project Manager.

## Authorization



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



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# Case Narrative

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

Job ID: 580-126957-1

**Job ID: 580-126957-1**

**Laboratory: Eurofins Seattle**

**Narrative**

## CASE NARRATIVE

**Client: AECOM**  
**Project: Red Hill - AFFF Assessment Sampling**  
**Report Number: 580-126957-1**

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**

Six samples were received on 5/6/2023 10:00 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 3.8° 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-RHMW17S-WGN01LF-2305W1 (580-126957-1), AF-RHMW17S-WQEB01-2305W1 (580-126957-2), AF-RHMW17-WGN01LF-2305W1 (580-126957-3), AF-RHMW17D-WGN01LF-2305W1 (580-126957-4), AF-RHMW17D-WQFB01-2305W1 (580-126957-5) and AF-RHMW225401-WGN01B-2305W1 (580-126957-6) were analyzed for glycols in accordance with EPA SW-846 Method 8015B - DAI. The samples were analyzed on 05/11/2023.**

The continuing calibration verification (CCV) associated with batch 680-778288 recovered above the upper control limit for 2-(2-Butoxyethoxy)ethanol. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: AF-RHMW17S-WGN01LF-2305W1 (580-126957-1), AF-RHMW17S-WQEB01-2305W1 (580-126957-2), AF-RHMW17-WGN01LF-2305W1 (580-126957-3), AF-RHMW17D-WGN01LF-2305W1 (580-126957-4), AF-RHMW17D-WQFB01-2305W1 (580-126957-5) and AF-RHMW225401-WGN01B-2305W1 (580-126957-6).

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

# Definitions/Glossary

Client: AECOM

Job ID: 580-126957-1

Project/Site: Red Hill - AFFF Assessment Sampling

## Qualifiers

### GC Semi VOA

Qualifier	Qualifier Description
J	Estimated: The analyte was positively identified; the quantitation is an estimation
M	Manual integrated compound.
Q	One or more quality control criteria failed.
U	Undetected at the Limit of Detection.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	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: 580-126957-1

Client Sample ID: AF-RHMW17S-WGN01LF-2305W1

Lab Sample ID: 580-126957-1

Date Collected: 05/03/23 09:35

Matrix: Water

Date Received: 05/06/23 10:00

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
2-(2-Butoxyethoxy)ethanol	1.7	J Q	5.0	1.1	mg/L			05/11/23 19:04	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11

# Client Sample Results

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

Job ID: 580-126957-1

**Client Sample ID: AF-RHMW17S-WQEB01-2305W1**

**Lab Sample ID: 580-126957-2**

Date Collected: 05/03/23 10:10

Matrix: Water

Date Received: 05/06/23 10:00

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
2-(2-Butoxyethoxy)ethanol	3.1	J M Q	5.0	1.1	mg/L			05/11/23 19:28	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11

# Client Sample Results

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

Job ID: 580-126957-1

Client Sample ID: AF-RHMW17-WGN01LF-2305W1

Lab Sample ID: 580-126957-3

Date Collected: 05/03/23 12:50

Matrix: Water

Date Received: 05/06/23 10:00

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
2-(2-Butoxyethoxy)ethanol	3.0	U Q	5.0	1.1	mg/L			05/11/23 19:51	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11



# Client Sample Results

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

Job ID: 580-126957-1

**Client Sample ID: AF-RHMW17D-WGN01LF-2305W1**

**Lab Sample ID: 580-126957-4**

**Date Collected: 05/03/23 10:50**

**Matrix: Water**

**Date Received: 05/06/23 10:00**

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
2-(2-Butoxyethoxy)ethanol	3.0	U Q	5.0	1.1	mg/L			05/11/23 20:14	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11

# Client Sample Results

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

Job ID: 580-126957-1

Client Sample ID: AF-RHMW17D-WQFB01-2305W1

Lab Sample ID: 580-126957-5

Date Collected: 05/03/23 10:25

Matrix: Water

Date Received: 05/06/23 10:00

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
2-(2-Butoxyethoxy)ethanol	3.0	U M Q	5.0	1.1	mg/L			05/11/23 20:38	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11

# Client Sample Results

Client: AECOM

Job ID: 580-126957-1

Project/Site: Red Hill - AFFF Assessment Sampling

**Client Sample ID: AF-RHMW225401-WGN01B-2305W1**

**Lab Sample ID: 580-126957-6**

**Date Collected: 05/04/23 11:00**

**Matrix: Water**

**Date Received: 05/06/23 10:00**

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
2-(2-Butoxyethoxy)ethanol	3.0	U M Q	5.0	1.1	mg/L			05/11/23 21:01	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11

# QC Sample Results

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

Job ID: 580-126957-1

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

**Lab Sample ID: MB 680-778288/9**  
**Matrix: Water**  
**Analysis Batch: 778288**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
2-(2-Butoxyethoxy)ethanol	3.0	U	5.0	1.1	mg/L			05/11/23 18:18	1

**Lab Sample ID: LCS 680-778288/5**  
**Matrix: Water**  
**Analysis Batch: 778288**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2-(2-Butoxyethoxy)ethanol	20.0	21.8		mg/L		109	50 - 150

**Lab Sample ID: LCSD 680-778288/6**  
**Matrix: Water**  
**Analysis Batch: 778288**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2-(2-Butoxyethoxy)ethanol	20.0	18.2		mg/L		91	50 - 150	18	50

**Lab Sample ID: 580-126957-1 MS**  
**Matrix: Water**  
**Analysis Batch: 778288**

**Client Sample ID: AF-RHMW17S-WGN01LF-2305W1**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
2-(2-Butoxyethoxy)ethanol	1.7	J Q	20.0	27.9		mg/L		131	50 - 150

**Lab Sample ID: 580-126957-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 778288**

**Client Sample ID: AF-RHMW17S-WGN01LF-2305W1**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2-(2-Butoxyethoxy)ethanol	1.7	J Q	20.0	29.7		mg/L		140	50 - 150	6	50

# Lab Chronicle

Client: AECOM

Job ID: 580-126957-1

Project/Site: Red Hill - AFFF Assessment Sampling

**Client Sample ID: AF-RHMW17S-WGN01LF-2305W1**

**Lab Sample ID: 580-126957-1**

**Date Collected: 05/03/23 09:35**

**Matrix: Water**

**Date Received: 05/06/23 10:00**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015C GLY		1	778288	GEM	EET SAV	05/11/23 19:04

**Client Sample ID: AF-RHMW17S-WQEB01-2305W1**

**Lab Sample ID: 580-126957-2**

**Date Collected: 05/03/23 10:10**

**Matrix: Water**

**Date Received: 05/06/23 10:00**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015C GLY		1	778288	GEM	EET SAV	05/11/23 19:28

**Client Sample ID: AF-RHMW17-WGN01LF-2305W1**

**Lab Sample ID: 580-126957-3**

**Date Collected: 05/03/23 12:50**

**Matrix: Water**

**Date Received: 05/06/23 10:00**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015C GLY		1	778288	GEM	EET SAV	05/11/23 19:51

**Client Sample ID: AF-RHMW17D-WGN01LF-2305W1**

**Lab Sample ID: 580-126957-4**

**Date Collected: 05/03/23 10:50**

**Matrix: Water**

**Date Received: 05/06/23 10:00**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015C GLY		1	778288	GEM	EET SAV	05/11/23 20:14

**Client Sample ID: AF-RHMW17D-WQFB01-2305W1**

**Lab Sample ID: 580-126957-5**

**Date Collected: 05/03/23 10:25**

**Matrix: Water**

**Date Received: 05/06/23 10:00**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015C GLY		1	778288	GEM	EET SAV	05/11/23 20:38

**Client Sample ID: AF-RHMW225401-WGN01B-2305W1**

**Lab Sample ID: 580-126957-6**

**Date Collected: 05/04/23 11:00**

**Matrix: Water**

**Date Received: 05/06/23 10:00**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015C GLY		1	778288	GEM	EET SAV	05/11/23 21:01

**Laboratory References:**

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

# Accreditation/Certification Summary

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

Job ID: 580-126957-1

## 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 analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015C GLY		Water	2-(2-Butoxyethoxy)ethanol



# Sample Summary

Client: AECOM

Job ID: 580-126957-1

Project/Site: Red Hill - AFFF Assessment Sampling

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-126957-1	AF-RHMW17S-WGN01LF-2305W1	Water	05/03/23 09:35	05/06/23 10:00
580-126957-2	AF-RHMW17S-WQEB01-2305W1	Water	05/03/23 10:10	05/06/23 10:00
580-126957-3	AF-RHMW17-WGN01LF-2305W1	Water	05/03/23 12:50	05/06/23 10:00
580-126957-4	AF-RHMW17D-WGN01LF-2305W1	Water	05/03/23 10:50	05/06/23 10:00
580-126957-5	AF-RHMW17D-WQFB01-2305W1	Water	05/03/23 10:25	05/06/23 10:00
580-126957-6	AF-RHMW225401-WGN01B-2305W1	Water	05/04/23 11:00	05/06/23 10:00

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**Chain of Custody Record**

<b>Client Information</b> Client Contact:			Sampler: <b>Avie Aspili</b> Phone: <b>(732) - 799-9957</b>	Lab PM: Elaine Walker E-Mail: <b>M.Elaine.Walker@EurofinsET.com</b>	Carrier Tracking No(s): FedEx State of Origin: Hawaii	COC No: <b>2305W1AFEA12</b> Page: Page 1 of 1 Job #:																										
Company: <b>AECOM</b> Address: <b>1001 Bishop St. Suite 1600</b> City: <b>Honolulu</b> State, Zip: <b>Hawaii 96813</b> Phone: <b>808-954-4512 / 770-331-0794</b> Email: <b>Watson Tanji (watson.tanji@aecom.com) / Mark Kromis (mark.kromis@aecom.com)</b> Project Name: <b>CTO N6274223F0104</b> Site: <b>RHSF</b>			Due Date Requested: see subcontract TAT Requested (days): <b>Rush - 5 Day</b> Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No PO #: WC #: Project #: <b>60697810</b> SSOW#:	<b>Analysis Requested</b> 			Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify) Other:																									
<table border="1"> <thead> <tr> <th>Sample Identification</th> <th>Sample Date</th> <th>Sample Time</th> <th>Sample Type (C=Comp, G=grab)</th> <th>Matrix (Water, Sewage, Oil, etc.)</th> <th>Field Filtered Sample (Yes or No)</th> <th>8018C_DAL_GL_Def Z-(2-butoxyethoxy)-ethanol</th> <th>Total Number of Containers</th> <th>Special Instructions/Note:</th> </tr> </thead> <tbody> <tr> <td><del>AF-RHMM17S-WGN01LF-2305W1</del></td> <td><del>5/13/23</del></td> <td><del>09:35</del></td> <td><del>G</del></td> <td><del>W</del></td> <td><del>N</del></td> <td><del>N</del></td> <td><del>X</del></td> <td><del>3</del></td> </tr> <tr> <td>AF-RHMM17S-WQEB01-2305W1</td> <td>5/13/23</td> <td>10:10</td> <td>G</td> <td>W</td> <td>N</td> <td>N</td> <td>X</td> <td>3</td> </tr> </tbody> </table>			Sample Identification				Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Sewage, Oil, etc.)	Field Filtered Sample (Yes or No)	8018C_DAL_GL_Def Z-(2-butoxyethoxy)-ethanol	Total Number of Containers	Special Instructions/Note:	<del>AF-RHMM17S-WGN01LF-2305W1</del>	<del>5/13/23</del>	<del>09:35</del>	<del>G</del>	<del>W</del>	<del>N</del>	<del>N</del>	<del>X</del>	<del>3</del>	AF-RHMM17S-WQEB01-2305W1	5/13/23	10:10	G	W	N	N	X	3
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Sewage, Oil, etc.)	Field Filtered Sample (Yes or No)	8018C_DAL_GL_Def Z-(2-butoxyethoxy)-ethanol	Total Number of Containers	Special Instructions/Note:																								
<del>AF-RHMM17S-WGN01LF-2305W1</del>	<del>5/13/23</del>	<del>09:35</del>	<del>G</del>	<del>W</del>	<del>N</del>	<del>N</del>	<del>X</del>	<del>3</del>																								
AF-RHMM17S-WQEB01-2305W1	5/13/23	10:10	G	W	N	N	X	3																								
<b>Possible Hazard Identification</b> <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological			<b>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</b> <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			Deliverable Requested: I, II, III, IV, Other (specify) _____ Prelim data (Level 1 or 2) = see TAT above. DoD Stage 4 report standard TAT. AECOM, EQUIS, EDD. Special Instructions/QC Requirements: DOD QSM project.																										
<b>Empty Kit Relinquished by:</b> Relinquished by: <b>Avie Aspili</b> Relinquished by: <b>Alex Edmonds</b> Relinquished by:			<b>Date/Time:</b> Date/Time: <b>5/13/23 1405</b> Date/Time: <b>5/14/23 1340</b> Date/Time:			<b>Company:</b> Company: <b>AECOM</b> Company: <b>AECOM</b> Company:			<b>Received by:</b> Received by: <b>Alex Edmonds</b> Received by: <b>10/23/23</b> Received by:		<b>Date/Time:</b> Date/Time: <b>5/13/23 1405</b> Date/Time: <b>5/14/23 10:00</b> Date/Time:		<b>Company:</b> Company: <b>AECOM</b> Company: <b>AECOM</b> Company:																			
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No			Custody Seal No.:			Cooler Temperature(s) °C and Other Remarks: <b>3.8 / 3.6</b>																										





### Chain of Custody Record

<b>Client Information</b> Client Contact:		Sampler: <b>Avie Aspili</b>		Lab PM: <b>Elaine Walker</b>		Carrier Tracking No(s): <b>FedEx</b>		COC No: <b>2305W1AFEAT0</b>			
Company: <b>AECOM</b>		Phone: <b>(702) 799-9957</b>		E-Mail: <b>M.Elaine.Walker@EurofinsET.com</b>		State of Origin: <b>Hawaii</b>		Page: <b>Page 1 of 1</b>			
Address: <b>1001 Bishop St. Suite 1600</b>		Due Date Requested: <b>see subcontract</b>		<b>Analysis Requested</b>		<b>Preservation Codes:</b> A - HCL          M - Hexane B - NaOH        N - None C - Zn Acetate    O - AsNaO2 D - Nitric Acid    P - Na2O4S E - NaHSO4        Q - Na2SO3 F - MeOH          R - Na2S2O3 G - Amchlor        S - H2SO4 H - Ascorbic Acid   T - TSP Dodecahydrate I - Ice              U - Acetone J - DI Water        V - MCAA K - EDTA            W - pH 4-5 L - EDA             Z - other (specify)		Job #:			
City: <b>Honolulu</b>		TAT Requested (days): <b>Rush - 5 Day</b>									
State, Zip: <b>Hawaii 96813</b>		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No									
Phone: <b>808-954-4512 / 770-331-0794</b>		PO #:									
Email: <b>Watson Tanji (watson.tanji@aecom.com) / Mark Kromis (mark.kromis@aecom.com)</b>		WG #:		Field Filled Sample (Yes or No) 801SC_DAL_GL_DS/2-(2-butoxyethoxy)-ethanol <b>ST/LS</b>		Total Number of Containers <b>(4)</b>		Other:			
Project Name: <b>CTO N6274223F0104</b>		Project #: <b>60697810</b>									
Site: <b>RHSF</b>		SSOW#:									
<b>Sample Identification</b>		<b>Sample Date</b>	<b>Sample Time</b>	<b>Sample Type (C=Comp, G=grab)</b>	<b>Matrix (W=water, S=solid, O=soils/oils, ST=Soils, As=Asst)</b>	<b>Field Filled Sample (Yes or No)</b>		<b>Special Instructions/Note:</b>			
<b>AF-RHMW17-WGN01LF-2305W1</b>		<b>5/3/23</b>	<b>1250</b>	<b>G</b>	<b>W</b>	<b>N</b>	<b>N</b>	<b>X</b>	<b>3</b>		
<b>Possible Hazard Identification</b> <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		<b>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</b> <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months		<b>Deliverable Requested:</b> I, II, III, IV, Other (specify)						<b>Prelim data (Level 1or2)</b> —see TAT above. DoD Stage <b>4</b> report standard TAT. AECOM EQUS EDD.	
<b>Empty Kit Relinquished by:</b> <b>Avie Aspili</b>		<b>Date:</b> 5/3/23 <b>Time:</b> 1905		<b>Company:</b> AECOM		<b>Received by:</b> <b>Alex Edmunds</b>		<b>Date/Time:</b> 5/3/23 1905 <b>Company:</b> AECOM			
<b>Relinquished by:</b> <b>Alex Edmunds</b>		<b>Date/Time:</b> 5/10/23 1325		<b>Company:</b> AECOM		<b>Received by:</b> <b>Waterbury</b>		<b>Date/Time:</b> 5/10/23 10:00 <b>Company:</b> Eurofins			
<b>Custody Seals Intact:</b> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<b>Custody Seal No.:</b>		<b>Cooler Temperature(s) °C and Other Remarks:</b> <b>3.8/3.0</b>							

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

# Chain of Custody Record


**eurofins** Environment Testing  
America

<b>Client Information</b>		Sampler: <u>Avie Asoli</u>		Lab PM: Elaine Walker		Carrier Tracking No(s): FedEx		GOC No: 2305W1AFEA11	
Client Contact:		Phone: <u>(732) 799-9957</u>		E-Mail: M.Elaine.Walker@EurofinsET.com		State of Origin: Hawaii		Page: Page 1 of 1	
Company: AECOM		Due Date Requested: see subcontract		Analysis Requested		Preservation Codes:		A - HCL                      M - Hexane B - NaOH                    N - None C - Zn Acetate            O - AsNaO2 D - Nitric Acid            P - Na2O4S E - NaHSO4                Q - Na2SO3 F - MeOH                    R - Na2S2O3 G - Amchlor                S - H2SO4 H - Ascorbic Acid        T - TSP Dodecahydrate I - Ice                        U - Acetone J - DI Water                V - MCAA K - EDTA                    W - pH 4-5 L - EDA                      Z - other (specify)	
Address: 1001 Bishop St. Suite 1600		TAT Requested (days): <u>Rush - 5 Day</u>							
City: Honolulu		Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No							
State, Zip: Hawaii 96813		PO #:							
Phone: 808-954-4512 / 770-331-0794		WO #:							
Email: Watson Tanji (watson.tanji@aecom.com) / Mark Kromis (mark.kromis@aecom.com)		Project #: 60697810		Field Filtered Sample (Yes or No)		Total Number of Containers		Special Instructions/Note:	
Project Name: CTO N6274223F0104		SSOW#:							
Site: RHSF		PWSID:		8016C_DAL_GL_DS/4-(2-butoxyethoxy)-ethanol		3		3	
<b>Sample Identification</b>		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Water, Solid, Organic, etc.)	Preservation Code:			
AF-RHMW17D-WGN01LF-2305W1		5/13/23	1050	G	W	N N X			
AF-RHMW17D-WQFB01-2305W1		5/13/23	1025	G	W	N N X			
Possible Hazard Identification		Deliverable Requested: I, II, III, IV, Other (specify)		Prelim data (Level 1 or 2) - see TAT above. DoD Stage 4 report standard TAT. AECOM EQUIS EDD.		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		Special Instructions/QC Requirements: DOD QSM project.	
<input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Date: 5/13/23 1405		Time: 5/13/23 1300		Method of Shipment:		Received by: Alex Edwards	
Empty Kit Relinquished by: <u>Avie Asoli</u>		Date/Time: 5/13/23 1405		Company: AECOM		Received by: <u>Alex Edwards</u>		Date/Time: 5/13/23 1405	
Relinquished by: <u>Alex Edwards</u>		Date/Time: 5/13/23 1300		Company: AECOM		Received by: <u>Avie Asoli</u>		Date/Time: 5/13/23 1000	
Relinquished by: <u>Avie Asoli</u>		Date/Time: 5/13/23		Company: AECOM		Received by: <u>Avie Asoli</u>		Date/Time: 5/13/23	
Custody Seals Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 3.8/3.6					

### Chain of Custody Record

<b>Client Information</b>		Sample: <i>CRABBEA ALUEN</i>	Lab PIM: Elaine Walker	Carrier Tracking No(s): FedEx	COC No: 2305W1AFAE07														
Client Contact:		Phone: <i>808 954 4512</i>	E-Mail: M.Elaine.Walker@EurofinsET.com	State of Origin: Hawaii	Page: Page 1 of 1														
Company: AECOM		PWSID:	<b>Analysis Requested</b>																
Address: 1001 Bishop St. Suite 1600		Due Date Requested: see subcontract																	
City: Honolulu		TAT Requested (days): <b>Rush - 5 Day</b>																	
State, Zip: Hawaii 96813		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No																	
Phone: 808-954-4512 / 770-331-0794		PO #:																	
Email: Watson Tanji (watson.tanji@aecom.com) / Mark Kromis (mark.kromis@aecom.com)		WO #:																	
Project Name: CTO N6274223F0104		Project #: 60697810	<table border="1"> <tr> <th>Field Filtered Sample (Yes or No)</th> <th>8018C_DAI_GL_D01/2-(2-butylxyethoxy)-ethanol</th> <th>Total Number of containers</th> </tr> <tr> <td>X</td> <td>A</td> <td>3</td> </tr> </table>			Field Filtered Sample (Yes or No)	8018C_DAI_GL_D01/2-(2-butylxyethoxy)-ethanol	Total Number of containers	X	A	3								
Field Filtered Sample (Yes or No)	8018C_DAI_GL_D01/2-(2-butylxyethoxy)-ethanol	Total Number of containers																	
X	A	3																	
Site: RHSF		SSOW#:	<table border="1"> <tr> <th>Sample Identification</th> <th>Sample Date</th> <th>Sample Time</th> <th>Sample Type (C=Comp, G=grab)</th> <th>Matrix (Water, Seawater, Oil, etc.)</th> <th>Preservation Code:</th> <th>Special Instructions/Note:</th> </tr> <tr> <td>AF-RHWW225401-WGN01B-2305W1</td> <td><i>5/10/23</i></td> <td><i>11:00</i></td> <td>G</td> <td>W</td> <td>N N X</td> <td></td> </tr> </table>			Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Seawater, Oil, etc.)	Preservation Code:	Special Instructions/Note:	AF-RHWW225401-WGN01B-2305W1	<i>5/10/23</i>	<i>11:00</i>	G	W	N N X	
Sample Identification	Sample Date	Sample Time				Sample Type (C=Comp, G=grab)	Matrix (Water, Seawater, Oil, etc.)	Preservation Code:	Special Instructions/Note:										
AF-RHWW225401-WGN01B-2305W1	<i>5/10/23</i>	<i>11:00</i>	G	W	N N X														
<b>Possible Hazard Identification</b> <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		<b>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</b> <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months																	
Deliverable Requested: I, II, III, IV, Other (specify)		Prelim data (Level 1or2)=see TAT above. DoD Stage 4 report standard TAT. AECOM EQUIS FDD.																	
Empty Kit Relinquished by:		Date:	Time:	Method of Shipment:															
Relinquished by: <i>CHRISTIE ALLEN</i>		Date/Time: <i>5/10/23 1325</i>	Company: AECOM	Received by: <i>Alex Edwards</i>	Date/Time: <i>5/10/23 1325</i>	Company: <i>AECOM</i>													
Relinquished by: <i>Alex Edwards</i>		Date/Time: <i>5/14/23 1340</i>	Company: <i>AECOM</i>	Received by: <i>Wakool</i>	Date/Time: <i>5/16/23 10:00</i>	Company: <i>AECOM</i>													
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: <i>3.8/3.6</i>															

## Chain of Custody Record

<b>Client Information</b>			Sampler <i>Avie Aspili</i>			Lab PM: Elaine Walker			Carrier Tracking No(s) FedEx			COC No. 2305W1AFEA12					
Client Contact:			Phone: <i>(932) 799-9951</i>			E-Mail: M.Elaine.Walker@EurofinsET.com			State of Origin: Hawaii			Page: Page 1 of 1					
Company AECOM						Analysis Requested						Job #:					
Address 1001 Bishop St Suite 1600						Due Date Requested see subcontract						<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>Field Filtered Sample (Yes or No)</p> <p>Perform MS/MSD (Yes or No)</p> <p>8015C_DAL_GL_DS/2-(2-butoxyethoxy)-ethanol</p> </div> <div style="width: 45%; border: 1px solid black;"> <p style="font-size: 2em; transform: rotate(-45deg);">6/3/23</p>  <p style="text-align: center;">580-126957 Chain of Custody</p> </div> </div>					
City: Honolulu						TAT Requested (days) <b>Rush - 5 Day</b>											
State/Zip Hawaii 96813						Compliance Project. <input type="checkbox"/> Yes <input type="checkbox"/> No											
Phone 808-954-4512 / 770-331-0794						PO #											
Email Watson Tanji (watson.tanji@aecom.com)/ Mark Kromis (mark.kromis@aecom.com)						WO #											
Project Name: CTO N6274223F0104						Project #: 60697810											
Site RHSF						SSOW#											

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)			Perform MS/MSD (Yes or No)			Total Number of Containers	Special Instructions/Note:
					Field Filtered	Sample	Time	MS/MSD	Sample	Time		
					<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
AF-RHMW17S-WGN01LF-2305W1	5/3/23	09:35	G	W	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	3	
AF-RHMW17S-WQEB01-2305W1	5/3/23	10:10	G	W	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	3	

**Possible Hazard Identification**

Non-Hazard    Flammable    Skin Irritant    Poison B    Unknown    Radiological

**Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)**

Return To Client    Disposal By Lab    Archive For \_\_\_\_\_ Months

Deliverable Requested I, II, III, IV, Other (specify)			Prelim data (Level 1 or 2)=see TAT above DoD Stage 4 report standard TAT. AECOM EQUS EDD.			Special Instructions/QC Requirements DOD QSM project.					
---	--	--	---	--	--	---	--	--	--	--	--

Empty Kit Relinquished by:			Date			Time			Method of Shipment.								
Relinquished by: <i>Avie Aspili</i>			Date/Time: 5/3/23 1405			Company: AECOM			Received by: <i>Alex Edmunds</i>			Date/Time: 5/3/23 1405			Company: AECOM		
Relinquished by: <i>Alex Edmunds</i>			Date/Time: 5/9/23 1340			Company: AECOM			Received by: <i>Waterman</i>			Date/Time: 5/16/23 10:00			Company: AECOM		

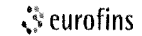
Custody Seals Intact  Yes  No      Custody Seal No

Cooler Temperature(s) °C and Other Remarks.      *3.8/3.6*

**Eurofins FGS, Seattle**

5755 8th Street East  
Tacoma, WA 98424

**Chain of Custody Record**



Environment Testing  
America

<b>Client Information</b>			Sampler: <i>Anne Aspili</i>		Lab PM: Elaine Walker		Carrier Tracking No(s): FedEx		COC No. 2305W1AFE10																																																																																						
Client Contact:			Phone: <i>(732) 799-4957</i>		E-Mail: M.Elaine.Walker@EurofinsET.com		State of Origin: Hawaii		Page 1 of 1																																																																																						
Company: AECOM			PWSID		<b>Analysis Requested</b>							Job #																																																																																			
Address: 1001 Bishop St Suite 1600			Due Date Requested: see subcontract		<table border="1"> <tr> <td colspan="2">TAT Requested (days): <b>Rush - 5 Day</b></td> <td colspan="2">Compliance Project. <input type="checkbox"/> Yes <input type="checkbox"/> No</td> <td colspan="2">PO #</td> <td colspan="2">WC #</td> <td colspan="2">Project # 60697810</td> <td colspan="2">SSOW#</td> </tr> <tr> <td colspan="2">City: Honolulu</td> <td colspan="2">Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)</td> <td colspan="2">Field Filtered Sample (Yes or No)</td> <td colspan="2">Perform MS/MSD (Yes or No)</td> <td colspan="2">8015C_DAL_GL_D5/2-(2-butoxyethoxy)-ethanol</td> <td colspan="2">Total Number of containers</td> </tr> <tr> <td colspan="2">State/Zip: Hawaii 96813</td> <td colspan="2">Preservation Codes</td> <td colspan="2">A HCL</td> <td colspan="2">M Hexane</td> <td colspan="2">B NaOH</td> <td colspan="2">N None</td> </tr> <tr> <td colspan="2">Phone: 808-954-4512 / 770-331-0794</td> <td colspan="2">C Zn Acetate</td> <td colspan="2">O AsNaO2</td> <td colspan="2">D Nitric Acid</td> <td colspan="2">P Na2O4S</td> <td colspan="2">Q Na2SO3</td> </tr> <tr> <td colspan="2">Email: Watson Tanji (watson.tanji@aecom.com) / Mark Kromis (mark.kromis@aecom.com)</td> <td colspan="2">F MeOH</td> <td colspan="2">R Na2S2O3</td> <td colspan="2">G Amchlor</td> <td colspan="2">S H2SO4</td> <td colspan="2">T TSP Dodecahydrate</td> </tr> <tr> <td colspan="2">Project Name: CTO N6274223F0104</td> <td colspan="2">H Ascorbic Acid</td> <td colspan="2">U Acetone</td> <td colspan="2">I Ice</td> <td colspan="2">V MCAA</td> <td colspan="2">W pH 4-5</td> </tr> <tr> <td colspan="2">Site: RHSF</td> <td colspan="2">K EDTA</td> <td colspan="2">Z other (specify)</td> <td colspan="2">L EDA</td> <td colspan="2">Other</td> <td colspan="2"></td> </tr> </table>							TAT Requested (days): <b>Rush - 5 Day</b>		Compliance Project. <input type="checkbox"/> Yes <input type="checkbox"/> No		PO #		WC #		Project # 60697810		SSOW#		City: Honolulu		Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		8015C_DAL_GL_D5/2-(2-butoxyethoxy)-ethanol		Total Number of containers		State/Zip: Hawaii 96813		Preservation Codes		A HCL		M Hexane		B NaOH		N None		Phone: 808-954-4512 / 770-331-0794		C Zn Acetate		O AsNaO2		D Nitric Acid		P Na2O4S		Q Na2SO3		Email: Watson Tanji (watson.tanji@aecom.com) / Mark Kromis (mark.kromis@aecom.com)		F MeOH		R Na2S2O3		G Amchlor		S H2SO4		T TSP Dodecahydrate		Project Name: CTO N6274223F0104		H Ascorbic Acid		U Acetone		I Ice		V MCAA		W pH 4-5		Site: RHSF		K EDTA		Z other (specify)		L EDA		Other			
TAT Requested (days): <b>Rush - 5 Day</b>		Compliance Project. <input type="checkbox"/> Yes <input type="checkbox"/> No		PO #								WC #		Project # 60697810		SSOW#																																																																															
City: Honolulu		Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)		Field Filtered Sample (Yes or No)								Perform MS/MSD (Yes or No)		8015C_DAL_GL_D5/2-(2-butoxyethoxy)-ethanol		Total Number of containers																																																																															
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Email: Watson Tanji (watson.tanji@aecom.com) / Mark Kromis (mark.kromis@aecom.com)		F MeOH		R Na2S2O3		G Amchlor		S H2SO4		T TSP Dodecahydrate																																																																																					
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Empty Kit Relinquished by			Date		Time		Method of Shipment: <i>12/3/23</i>																																																																																								
Relinquished by: <i>Anne Aspili</i>			Date/Time: <i>5/13/23 1405</i>		Company: AECOM		Received by: <i>Alex Edmunds</i>		Date/Time: <i>5/13/23 1405</i>		Company: AECOM																																																																																				
Relinquished by: <i>Alex Edmunds</i>			Date/Time: <i>5/17/23 1325</i>		Company: AECOM		Received by: <i>Waterbury</i>		Date/Time: <i>5/16/23 1000</i>		Company: Eurofins																																																																																				
Relinquished by:			Date/Time:		Company:		Received by:		Date/Time:		Company:																																																																																				
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No			Custody Seal No		Cooler Temperature(s) °C and Other Remarks: <i>3.8/3.0</i>																																																																																										

Ver 01/16/2019

<b>Client Information</b> Client Contact: <b>Alice Aspill</b> Phone: (360) 709-9951 PWSID:		Lab PM: <b>Elaine Walker</b> E-Mail: <b>M.Elaine.Walker@EurofinsET.com</b>		Carrier Tracking No(s): FedEX State of Origin: Hawaii		COC No: 2305W1AFEAT12 Page: Page 1 of 1 Job #:	
Due Date Requested: See subcontract TAT Requested (days): <b>Rush - 5 Day</b>		Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<b>Analysis Requested</b>		Preservation Codes: A HCL B NaOH C Zn Acetate D Nitric Acid E NH4SO4 F MeOH G Amchlor H Ascorbic Acid I Ices J DI Water K EDTA L EDA Other:	
PO #:		WO #:				M Hexane N None O AsNaO2 P Na2O4S Q Na2SO3 R Na2SSO3 S H2SO4 T TSP Dodecahydrate U Acetone V MCAA W pH 4-5 Z other (specify)	
Project #: 60697810 SOW#:		Matrix (Water, Seawater, Urine, Acid)		Perform MS/MSD (Yes or No)		Total Number of containers	
Sample Identification		Sample Date 5/13/23 09:35 5/13/23 10:10 5/13/23		Sample Type (C=Comp, G=grab)		Special Instructions/Note:	
AF-RHMW17S-WGN01LF-2305W1 AF-RHMW17S-WQEB01-2305W1		Preservation Code: G W W		Field Filtered Sample (Yes or No)		580-126957 Chain of Custody	
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Deliverable Requested: I, II, III, IV, Other (specify)		Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
Relinquished by: <b>Alice Aspill</b> Relinquished by: <b>Alex Edwards</b> Relinquished by:		Date/Time: 5/13/23 1405 Date/Time: 5/13/23 1330 Date/Time:		Received by: <b>Alex Edwards</b> Received by: <b>Alex Edwards</b> Received by:		Date/Time: 5/15/23 1765 Date/Time: 5/13/23 10:05 Date/Time:	
Custody Seals Intact: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Custody Seal No		Cooler Temperature(s) °C and Other Remarks: <b>3.8/3.6</b>		Method of Shipment:		Company: <b>AESOR</b> Company: Company:	



**Chain of Custody Record**

<b>Client Information</b>		Sampler: <u>Alex Aspell</u>		Lab PM: <u>Elaine Walker</u>		Carrier Tracking No(s): <u>2305W1AFE10</u>	
Client Contact:		Phone: <u>(360) 749-5415</u>		E-Mail: <u>M.Elaine.Walker@EurofinsET.com</u>		Page: <u>1 of 1</u>	
Company: <u>AECOM</u>		Address: <u>1001 Bishop St. Suite 1600</u>		City: <u>Honolulu</u>		State of Origin: <u>Hawaii</u>	
City: <u>Honolulu</u>		State Zip: <u>Hawaii 96813</u>		Phone: <u>808-954-4512 / 770-331-0794</u>		Job #:	
Email: <u>Watson.Tanji@aecom.com / Mark.Kromis@aecom.com</u>		Project #: <u>60697810</u>		Project Name: <u>CTO N6274223F0104</u>		Preservation Codes:	
Site: <u>RHSF</u>		SSOW #:		Compliance Project: <u>Yes</u> <input type="checkbox"/> <u>No</u> <input type="checkbox"/>		A HCL B NaOH C Zn Acetate D Nitric Acid E NaHSO4 F MeOH G Amchlor H Ascorbic Acid I Ice J DI Water K EDTA L EDA M Hexane N None O AsNaO2 P Na2O4S Q Na2SO3 R Na2S2O3 S H2SO4 T TSP Dodecahydrate U Acetone V MCAA W pH 4-5 Z other (specify)	
Due Date Requested: <u>see subcontract</u>		TAT Requested (days): <u>Rush - 5 Day</u>		Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> <u>Yes</u> <input type="checkbox"/> <u>No</u>		Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/> <u>Yes</u> <input type="checkbox"/> <u>No</u>	
Sample Identification		Sample Date: <u>5/13/23</u>		Sample Time: <u>1250</u>		Sample Type (C=Comp, G=grab): <u>G</u>	
AF-RHMW17-WGN01LF-2305W1		Matrix (Water, Solid, Swab, Soil, etc.): <u>Water</u>		Preservation Code: <u>W</u>		Total Number of Containers: <u>3</u>	
Possible Hazard Identification		<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B		<input type="checkbox"/> Unknown <input type="checkbox"/> Microbiological		Special Instructions/Notes:	
Deliverable Requested: I, II, III, IV, Other (specify)		Empty Kit Relinquished by: <u>Alex Aspell</u>		Relinquished by: <u>Alex Edmunds</u>		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
Relinquished by: <u>Alex Aspell</u>		Date/Time: <u>5/13/23 1305</u>		Company: <u>AECOM</u>		<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	
Relinquished by: <u>Alex Edmunds</u>		Date/Time: <u>5/13/23 1325</u>		Company: <u>AECOM</u>		Special Instructions/QC Requirements: <u>DOD GSM project</u>	
Relinquished by:		Date/Time:		Company:		Method of Shipment: <u>234/12</u>	
Custody Seals Intact: <u>Yes</u> <input checked="" type="checkbox"/> <u>No</u> <input type="checkbox"/>		Cooler Temperature(s) °C and Other Remarks: <u>38/3.0</u>		Received by: <u>Alex Edmunds</u>		Date/Time: <u>5/13/23 1305</u>	
Company: <u>AECOM</u>		Date/Time: <u>5/13/23 1305</u>		Company: <u>AECOM</u>		Date/Time: <u>5/13/23 1305</u>	
Company: <u>AECOM</u>		Date/Time: <u>5/13/23 1325</u>		Company: <u>AECOM</u>		Date/Time: <u>5/13/23 1305</u>	
Company: <u>AECOM</u>		Date/Time:		Company:		Date/Time:	



# Chain of Custody Record

<b>Client Information</b>		Lab Pk: Elaine Walker		Carrier Tracking No(s): 2305W1AFEA11	
Client Contact: Aivek Aspin		E-Mail: M.Elaine.Walker@EurofinsET.com		Page: Page 1 of 1	
Company: AECOM		PWSID:		Job #:	
Address: 1001 Bishop St. Suite 1600		Due Date Requested: see subcontract		Analysis Requested	
City: Honolulu		TAT Requested (days): Rush - 5 Day		Total Number of Containers	
State, Zip: Hawaii 96813		Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Preservation Codes:	
Phone: 808-954-4512 / 770-331-0794		PO #:		A HCL B NaOH C Zn Acetate D Nitric Acid E NaHSO4 F MeOH G Amchlor H Ascorbic Acid I Ice J DI Water K EDTA L EDA Other	
Email: Watson.Tanji@aeom.com / Mark.Kromis@aeom.com		WO #:		M Hexane N None O AsNaO2 P Na2O4S Q Na2SO3 R Na2SO3 S H2SO4 T TSP Dodecylhydrate U Acetone V MCAA W PH 4-5 Z other (specify)	
Project Name: CTO N6274223F0104		Project #: 60697810		Special Instructions/Note:	
Site: RH5F		SSOW#:		8015C_DAL_GL_DS/2-(2-butoxyethoxy)-ethanol	
<b>Sample Identification</b>		Perform MS/MSD (Yes or No)		Field Filtered Sample (Yes or No)	
Sample Date	Sample Time	Sample Type (C-comp, G-grab)	Preservation Code	<input checked="" type="checkbox"/> A	<input checked="" type="checkbox"/> N
5/13/23	1050	G	W	<input checked="" type="checkbox"/> X	<input checked="" type="checkbox"/> N
5/13/23	1025	G	W	<input checked="" type="checkbox"/> X	<input checked="" type="checkbox"/> N
<p><b>Possible Hazard Identification</b>  <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological          Deliverable Requested: I, II, III, IV, Other (specify)</p>					
<p><b>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</b>  <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months</p>					
<p>Special Instructions/OC Requirements: DOD QSM project.          4 report standard TAT - AECOM/EQUIS FDD.</p>					
Date/Time: 5/13/23 1405		Date/Time: 5/13/23 1405		Date/Time: 5/13/23 1405	
Received by: Aivek Aspin		Received by: Alex Edwards		Received by: Alex Edwards	
Company: AECOM		Company: AECOM		Company: AECOM	
Date/Time: 5/13/23 1405		Date/Time: 5/13/23 1405		Date/Time: 5/13/23 1405	
Received by: Alex Edwards		Received by: Alex Edwards		Received by: Alex Edwards	
Company: AECOM		Company: AECOM		Company: AECOM	
Date/Time: 5/13/23 1405		Date/Time: 5/13/23 1405		Date/Time: 5/13/23 1405	
Received by: Alex Edwards		Received by: Alex Edwards		Received by: Alex Edwards	
Company: AECOM		Company: AECOM		Company: AECOM	
Custody Seal No. 3-8/B.L.U					
Cooler Temperature(s) °C and Other Remarks:					





### Chain of Custody Record

<b>Client Information</b>		Company: AECOM		Lab PM: Elaine Walker		Carrier Tracking No(s): 2305W1AFEAO7	
Client Contact: JARON ALON		E-Mail: M.Elaine.Walker@EurofinsET.com		States of Origin: Hawaii		Page: Page 1 of 1	
Address: 1001 Bishop St. Suite 1600		City: Honolulu		State: HI		Job #:	
State, Zip: Hawaii 96813		Phone: 808-954-4512 / 770-331-0794		Project Name: CTO N627423F0104		Site: RH5F	
Email: Watson.Tanji@aecom.com / Mark.Kromis@aecom.com		Project #: 60697810		SSOW #:		Analysis Requested	
Due Date Requested: See subcontract		TAT Requested (days): <b>Rush - 5 Day</b>		Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		PO #:	
WO #:		Sample Date: 5/4/23		Sample Time: 1000		Sample Type (C=Comp, G=grab)	
Matrix (W=Water, S=solid, O=Other, A=Aspirate, T=Titration, A=Aspirate)		Sample Preservation Code: G		Matrix		Sample Date	
Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/>		Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/>		Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/>		Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/>	
Form MS/MSD (Yes or No) <input checked="" type="checkbox"/>		Form MS/MSD (Yes or No) <input checked="" type="checkbox"/>		Form MS/MSD (Yes or No) <input checked="" type="checkbox"/>		Form MS/MSD (Yes or No) <input checked="" type="checkbox"/>	
8015C_DAL_GL_D5/2-(2-butoxyethoxy)-ethanol		8015C_DAL_GL_D5/2-(2-butoxyethoxy)-ethanol		8015C_DAL_GL_D5/2-(2-butoxyethoxy)-ethanol		8015C_DAL_GL_D5/2-(2-butoxyethoxy)-ethanol	
Total Number of containers		3		Total Number of containers		3	
Special Instructions/Note:							
Preservation Codes		M Hexane		N None		O AsNaO2	
A HCL		C Zn Acetate		D Nitric Acid		E NaHSO4	
B NaOH		F MeOH		G Amchlor		H Ascorbic Acid	
C Zn Acetate		I Ice		J DI Water		K EDTA	
D Nitric Acid		L EDA		M Hexane		N None	
E NaHSO4		Other		O AsNaO2		P Na2SO3	
F MeOH				Q Na2SO3		R Na2SO3	
G Amchlor				S H2SO4		T TSP Dodecylhydrate	
H Ascorbic Acid				U Acetone		V MCAA	
I Ice				W pH 4-5		X other (specify)	
J DI Water				Y MCAA		Z other (specify)	
K EDTA							
L EDA							
M Hexane							
N None							
O AsNaO2							
P Na2SO3							
Q Na2SO3							
R Na2SO3							
S H2SO4							
T TSP Dodecylhydrate							
U Acetone							
V MCAA							
W pH 4-5							
X other (specify)							
Z other (specify)							

Possible Hazard Identification		<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological	
Deliverable Requested: I, II, III, IV, Other (specify)		Prelim data (Level 1 or 2) = see TAT above. DOD Stage 4: report standard IAL, AECOM EQUUS EDD.	
Empty Kit Relinquished by		Date:	
Relinquished by: JARON ALON		Date/Time: 5/4/23 1325	
Relinquished by: ALEX EDWARDS		Date/Time: 5/4/23 1347	
Relinquished by:		Date/Time:	
Custody Seals Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No	
Cooler Temperature(s) °C and Other Remarks: 38/3.0		Received by: ALEX EDWARDS	
		Received by: ALEX EDWARDS	
		Received by: ALEX EDWARDS	



# Login Sample Receipt Checklist

Client: AECOM

Job Number: 580-126957-1

**Login Number: 126957**

**List Number: 2**

**Creator: Johnson, Corey M**

**List Source: Eurofins Savannah**

**List Creation: 05/09/23 12:59 PM**

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	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	

