

 **ANALYTICAL REPORT****PREPARED FOR**

Attn: Terri Choy  
AECOM  
1001 Bishop Street  
Honolulu, Hawaii 96813  
Generated 5/11/2023 1:21:55 PM

**JOB DESCRIPTION**

Red Hill - AFFF Assessment Sampling

**JOB NUMBER**

580-126874-1

# 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



Generated  
5/11/2023 1:21:55 PM

---

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



# Table of Contents

Cover Page . . . . .	1
Table of Contents . . . . .	3
Case Narrative . . . . .	4
Definitions . . . . .	5
Client Sample Results . . . . .	6
QC Sample Results . . . . .	8
Chronicle . . . . .	9
Certification Summary . . . . .	10
Sample Summary . . . . .	11
Chain of Custody . . . . .	12
Receipt Checklists . . . . .	18

# Case Narrative

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

Job ID: 580-126874-1

**Job ID: 580-126874-1**

**Laboratory: Eurofins Seattle**

**Narrative**

## CASE NARRATIVE

**Client: AECOM**  
**Project: Red Hill - AFFF Assessment Sampling**  
**Report Number: 580-126874-1**

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**

Two samples were received on 5/4/2023 10:30 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 2.4° C and 5.6° C.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

### **GLYCOLS**

**Samples AF-HDMW225303-WGN01LF-2305W1 (580-126874-1) and AF-RHMW10-WGN01LF-2305W1 (580-126874-2) were analyzed for glycols in accordance with EPA SW-846 Method 8015B - DAI. The samples were analyzed on 05/07/2023.**

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

# Definitions/Glossary

Client: AECOM

Job ID: 580-126874-1

Project/Site: Red Hill - AFFF Assessment Sampling

## Qualifiers

### GC Semi VOA

Qualifier	Qualifier Description
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: 580-126874-1

**Client Sample ID: AF-HDMW225303-WGN01LF-2305W1**

**Lab Sample ID: 580-126874-1**

**Date Collected: 05/02/23 10:05**

**Matrix: Water**

**Date Received: 05/04/23 10:30**

**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	5.0	1.1	mg/L			05/07/23 16:29	1

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

# Client Sample Results

Client: AECOM

Job ID: 580-126874-1

Project/Site: Red Hill - AFFF Assessment Sampling

**Client Sample ID: AF-RHMW10-WGN01LF-2305W1**

**Lab Sample ID: 580-126874-2**

**Date Collected: 05/02/23 12:15**

**Matrix: Water**

**Date Received: 05/04/23 10:30**

**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	5.0	1.1	mg/L			05/07/23 16:52	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: 580-126874-1

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

**Lab Sample ID: MB 680-777342/18**  
**Matrix: Water**  
**Analysis Batch: 777342**

**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	-		05/07/23 04:05	1

**Lab Sample ID: LCS 680-777342/12**  
**Matrix: Water**  
**Analysis Batch: 777342**

**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	19.1		mg/L	-	96	50 - 150

**Lab Sample ID: LCSD 680-777342/13**  
**Matrix: Water**  
**Analysis Batch: 777342**

**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	19.3		mg/L	-	97	50 - 150	1	50



# Lab Chronicle

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

Job ID: 580-126874-1

**Client Sample ID: AF-HDMW225303-WGN01LF-2305W1**

**Lab Sample ID: 580-126874-1**

**Date Collected: 05/02/23 10:05**

**Matrix: Water**

**Date Received: 05/04/23 10:30**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015C GLY		1	777342	GEM	EET SAV	05/07/23 16:29

**Client Sample ID: AF-RHMW10-WGN01LF-2305W1**

**Lab Sample ID: 580-126874-2**

**Date Collected: 05/02/23 12:15**

**Matrix: Water**

**Date Received: 05/04/23 10:30**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015C GLY		1	777342	GEM	EET SAV	05/07/23 16:52

**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: 580-126874-1

## 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

Project/Site: Red Hill - AFFF Assessment Sampling

Job ID: 580-126874-1

---

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-126874-1	AF-HDMW225303-WGN01LF-2305W1	Water	05/02/23 10:05	05/04/23 10:30
580-126874-2	AF-RHMW10-WGN01LF-2305W1	Water	05/02/23 12:15	05/04/23 10:30

1

2

3

4

5

6

7

8

9

10

11



**Chain of Custody Record**

016-87850443

<b>Client Information</b>		Sampler: <i>Tyler Nishikawa</i>		Lab PM: Elaine Walker		Carrier Tracking No(s): FedEx		COC No: 2305W1AFAE04																																																																						
Client Contact:		Phone: <i>808-286-3420</i>		E-Mail: M.Elaine.Walker@EurofinsET.com		State of Origin: Hawaii		Page: 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 rowspan="5" style="writing-mode: vertical-rl; transform: rotate(180deg);">Field Filtered Sample (Yes or No)</td> <td rowspan="5" style="writing-mode: vertical-rl; transform: rotate(180deg);">Pesticide Methyl DP (Yes or No)</td> <td rowspan="5" style="writing-mode: vertical-rl; transform: rotate(180deg);">8015C_DAL_GI_DS/2-(p-butylxythoxy)-ethanol</td> <td colspan="9"> <table border="1"> <tr> <th>Sample Date</th> <th>Sample Time</th> <th>Sample Type (C=Comp, G=grab)</th> <th>Matrix (Water, Swab, Overhead, ET+Thru, Air)</th> <th>Preservation Code:</th> <th colspan="4">Total Number of Containers</th> <th rowspan="2">Special Instructions/Note:</th> </tr> <tr> <td><i>5/2/23</i></td> <td><i>1005</i></td> <td><i>G</i></td> <td><i>W</i></td> <td><i>N N X</i></td> <td><i>3</i></td> <td colspan="3"></td> </tr> </table> </td> </tr> <tr> <td colspan="2">City: Honolulu</td> <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">WO #:</td> <td colspan="2">Project #:</td> </tr> <tr> <td colspan="2">State, Zip: Hawaii 96813</td> <td colspan="2">Project #: 60697B10</td> <td colspan="2">SSOW#:</td> <td colspan="2">Project Name: CTO N6274223F0104</td> <td colspan="2">Project #:</td> <td colspan="2">SSOW#:</td> </tr> <tr> <td colspan="2">Phone: 808-954-4512 / 770-331-0794</td> <td colspan="2">Site: RHSF</td> <td colspan="2">Project #:</td> <td colspan="2">Project Name: CTO N6274223F0104</td> <td colspan="2">Project #:</td> <td colspan="2">SSOW#:</td> </tr> </table>						Field Filtered Sample (Yes or No)	Pesticide Methyl DP (Yes or No)	8015C_DAL_GI_DS/2-(p-butylxythoxy)-ethanol	<table border="1"> <tr> <th>Sample Date</th> <th>Sample Time</th> <th>Sample Type (C=Comp, G=grab)</th> <th>Matrix (Water, Swab, Overhead, ET+Thru, Air)</th> <th>Preservation Code:</th> <th colspan="4">Total Number of Containers</th> <th rowspan="2">Special Instructions/Note:</th> </tr> <tr> <td><i>5/2/23</i></td> <td><i>1005</i></td> <td><i>G</i></td> <td><i>W</i></td> <td><i>N N X</i></td> <td><i>3</i></td> <td colspan="3"></td> </tr> </table>									Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Swab, Overhead, ET+Thru, Air)	Preservation Code:	Total Number of Containers				Special Instructions/Note:	<i>5/2/23</i>	<i>1005</i>	<i>G</i>	<i>W</i>	<i>N N X</i>	<i>3</i>				City: Honolulu		TAT Requested (days): <b>Rush - 5 Day</b>		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No		PO #:		WO #:		Project #:		State, Zip: Hawaii 96813		Project #: 60697B10		SSOW#:		Project Name: CTO N6274223F0104		Project #:		SSOW#:		Phone: 808-954-4512 / 770-331-0794		Site: RHSF		Project #:		Project Name: CTO N6274223F0104		Project #:		SSOW#:		Preservation Codes:	
Field Filtered Sample (Yes or No)	Pesticide Methyl DP (Yes or No)	8015C_DAL_GI_DS/2-(p-butylxythoxy)-ethanol	<table border="1"> <tr> <th>Sample Date</th> <th>Sample Time</th> <th>Sample Type (C=Comp, G=grab)</th> <th>Matrix (Water, Swab, Overhead, ET+Thru, Air)</th> <th>Preservation Code:</th> <th colspan="4">Total Number of Containers</th> <th rowspan="2">Special Instructions/Note:</th> </tr> <tr> <td><i>5/2/23</i></td> <td><i>1005</i></td> <td><i>G</i></td> <td><i>W</i></td> <td><i>N N X</i></td> <td><i>3</i></td> <td colspan="3"></td> </tr> </table>										Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Swab, Overhead, ET+Thru, Air)	Preservation Code:	Total Number of Containers				Special Instructions/Note:	<i>5/2/23</i>	<i>1005</i>	<i>G</i>	<i>W</i>	<i>N N X</i>	<i>3</i>																																																		
			Sample Date										Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Swab, Overhead, ET+Thru, Air)	Preservation Code:	Total Number of Containers				Special Instructions/Note:																																																									
			<i>5/2/23</i>										<i>1005</i>	<i>G</i>	<i>W</i>	<i>N N X</i>	<i>3</i>																																																													
			City: Honolulu										TAT Requested (days): <b>Rush - 5 Day</b>		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No		PO #:		WO #:		Project #:																																																									
			State, Zip: Hawaii 96813		Project #: 60697B10		SSOW#:		Project Name: CTO N6274223F0104		Project #:		SSOW#:																																																																	
Phone: 808-954-4512 / 770-331-0794		Site: RHSF		Project #:		Project Name: CTO N6274223F0104		Project #:		SSOW#:																																																																				
City: Honolulu		TAT Requested (days): <b>Rush - 5 Day</b>		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No		PO #:		WO #:		Project #:																																																																				
State, Zip: Hawaii 96813		Project #: 60697B10		SSOW#:		Project Name: CTO N6274223F0104		Project #:		SSOW#:																																																																				
Phone: 808-954-4512 / 770-331-0794		Site: RHSF		Project #:		Project Name: CTO N6274223F0104		Project #:		SSOW#:																																																																				
Email: Watson Tanji (watson.tanji@aecom.com) / Mark Kromis (mark.kromis@aecom.com)		Project #:		SSOW#:		Project Name: CTO N6274223F0104		Project #:		SSOW#:																																																																				
Project Name: CTO N6274223F0104		Project #:		SSOW#:		Project Name: CTO N6274223F0104		Project #:		SSOW#:																																																																				
Site: RHSF		Project #:		SSOW#:		Project Name: CTO N6274223F0104		Project #:		SSOW#:																																																																				

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



Environment Testing  
 America

### Chain of Custody Record

016-871 50943

<b>Client Information</b> Client Contact: <u>Mark Kromis</u> Phone: <u>808-286-3870</u> E-Mail: <u>M.Elaine.Walker@EurofinsET.com</u>		Lab Pk: <u>Elaine Walker</u> Fed/Ex: <u>Hawaii</u>		COC No: <u>2305W1AE04</u> Page: <u>Page 1 of 1</u> Job #: <u>1</u>	
Address: <u>1001 Bishop St Suite 1600</u> City: <u>Honolulu</u> State, Zip: <u>Hawaii 96813</u> Phone: <u>808-954-4512 / 770-331-0794</u> Email: <u>Mark.Kromis@eurofins.com</u>		PMSID: <u>106-Nishikawa</u> Rush - 5 Day Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - NaOH G - Ascorbic Acid H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDTA Other:	
Project #: <u>60697810</u> SOW#: <u>RHSF</u>		Sample Date: <u>5/2/23</u> Sample Time: <u>1005</u> Sample Type (C=Comp, G=Grab): <u>G</u> Preservation Code: <u>W</u>		Special Instructions/Note: <u>3</u>	
Sample Identification: <u>AF-HDMW225303-WGN01LF-2305W1</u>		Matrix: <u>6015C_DAI_GL_DS/2-(2-butoxyethoxy)-ethanol</u>		Total Number of Containers: <u>3</u>	
Possible Hazard Identification: <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Radiochemical		Field Filtered Sample (Yes or No): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For <u>Months</u>	
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 FDD.		Special Instructions/QC Requirements: <u>DoD QSM project</u>	
Empty Kit Relinquished by:		Date:		Method of Shipment:	
Relinquished by: <u>Alex Edwards</u>		Date/Time: <u>5/2/23 1330</u>		Company: <u>AECOM</u>	
Relinquished by: <u>Alex Edwards</u>		Date/Time: <u>5/3/23 1330</u>		Company: <u>AECOM</u>	
Relinquished by: <u>Alex Edwards</u>		Date/Time: <u>5/4/23 10:30</u>		Company: <u>AECOM</u>	
Custody Seals Intact: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:	

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

**eurofins** Environment Testing  
 America

**Chain of Custody Record**

016-8785043


<b>Client Information</b> Company: AECOM Address: 1001 Bishop St Suite 1600 City: Honolulu State, Zip: Hawaii 96813 Phone: 808-954-4512 / 770-331-0794 Email: watson.tanj@aecom.com / Mark.Kromis@aecom.com Project Name: CTO N6274223F0104 Site: RH5F		<b>Supplier</b> Supplier: Julie Nishikawa Phone: 808-286-3940 FWSID:		<b>Lab Pk</b> Lab Pk: Elaine Walker Email: M.Elaine.Walker@EurofinsE.com State of Origin: Hawaii		<b>Carrier Tracking No(s)</b> Carrier Tracking No(s): 2305W1AFEAO3 Page: Page 1 of 1 Job #:	
<b>Due Date Requested:</b> see subcontract <b>TAT Requested (days):</b> Rush - 5 Day <b>Compliance Project:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <b>PO #:</b> <b>WO #:</b> <b>Project #:</b> B0687810 <b>SSOW#:</b>		<b>Analysis Requested</b> 8016C, DM, GL, DV, 2-(2-butoxyethoxy)-ethanol Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> A 8016C, DM, GL, DV, 2-(2-butoxyethoxy)-ethanol <input checked="" type="checkbox"/> A		<b>Preservation Codes:</b> M - Hexane N - None O - Asht02 P - NaClOAS Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify) Other:		<b>Special Instructions/Note:</b> Total Number of Containers: 3	
<b>Sample Identification</b> AF-RHAW10-WGN01LF-2305W1		<b>Sample Date</b> 5/2/23	<b>Sample Time</b> 12:15	<b>Sample Type (C=Comp, G=Grab)</b> G	<b>Matrix (W=Water, S=Soil, O=Organic, Q=Quartz)</b> W	<b>Field Filtered Sample (Yes or No)</b> <input checked="" type="checkbox"/> A <input checked="" type="checkbox"/> N <input checked="" type="checkbox"/> 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"/> Bioblogical Deliverable Requested: I, II, III, IV, Other (specify)		<b>Date/Time:</b> Date: 5/2/23 Time: 1330 Company: AECOM		<b>Date/Time:</b> Date: 5/2/23 Time: 1330 Company: AECOM		<b>Date/Time:</b> Date: 5/11/23 Time: 10:00 Company: AECOM	
<b>Empty Kit Relinquished by:</b> Relinquished by: Julie Nishikawa Relinquished by: Alex Nishikawa Relinquished by: Alex Nishikawa		<b>Return To Client</b> <input type="checkbox"/> <b>Disposal By Lab</b> <input type="checkbox"/> <b>Archive For</b> _____ Months <b>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</b> Special Instructions/OC Requirements: DOD QSM project.		<b>Method of Shipment:</b>		<b>Cooler Temperature(s) °C and Other Remarks:</b>	



1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11

**Chain of Custody Record**

016-87850943

<b>Client Information</b>		Sampler Tyler Nishikane	Lab PM Elaine Walker	Carrier Tracking No(s) FedEx	COC No: 2305W1AFE04																																				
Client Contact:		Phone 808-286-3470	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		<table border="1"> <tr> <td rowspan="5">Field Filtered Sample (Yes or No)</td> <td rowspan="5">Perform MS/MSD (Yes or No)</td> <td rowspan="5">8015C_DAI_GL_DS/2-(2-butoxyethoxy)-ethanol</td> <td rowspan="5">Total Number of containers</td> <td colspan="2">Preservation Codes</td> </tr> <tr> <td>A HCL</td> <td>M Hexane</td> </tr> <tr> <td>B NaOH</td> <td>N None</td> </tr> <tr> <td>C Zn Acetate</td> <td>O AsNaO2</td> </tr> <tr> <td>D Nitric Acid</td> <td>P Na2O4S</td> </tr> <tr> <td>E NaHSO4</td> <td>Q Na2SO3</td> </tr> <tr> <td>F MeOH</td> <td>R Na2S2O3</td> </tr> <tr> <td>G Amchlor</td> <td>S H2SO4</td> </tr> <tr> <td>H Ascorbic Acid</td> <td>T TSP Dodecahydrate</td> </tr> <tr> <td>I Ice</td> <td>U Acetone</td> </tr> <tr> <td>J DI Water</td> <td>V MCAA</td> </tr> <tr> <td>K EDTA</td> <td>W pH 4-5</td> </tr> <tr> <td>L EDA</td> <td>Z other (specify)</td> </tr> <tr> <td colspan="2">Other</td> <td colspan="2"></td> <td colspan="2"></td> </tr> </table>		Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015C_DAI_GL_DS/2-(2-butoxyethoxy)-ethanol	Total Number of containers	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					
Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015C_DAI_GL_DS/2-(2-butoxyethoxy)-ethanol	Total Number of containers							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																																									
City Honolulu		TAT Requested (days) Rush - 5 Day																																							
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 #																																							
<b>Sample Identification</b>		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)	8015C_DAI_GL_DS/2-(2-butoxyethoxy)-ethanol	Total Number of containers	Special Instructions/Note:																															
AF-HDMW225303-WGN01LF-2305W1		5/2/23	1005	G	W	N	N	X	3																																
 580-126874 Chain of Custody		<div style="text-align: right; font-size: 2em; font-weight: bold;">5/11/23</div> <div style="text-align: right; font-size: 1.5em; font-weight: bold;">STATS</div>																																							
<b>Possible Hazard Identification</b>						<b>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</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						<input type="checkbox"/> Return To Client <input 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 EQUS EDD.			Special Instructions/QC Requirements DOD QSM project																																			
Empty Kit Relinquished by		Date	Time	Method of Shipment:																																					
Relinquished by: Tyler Nishikane		Date/Time: 5/2/23 1330	Company: AECOM	Received by: Alex Edmonds		Date/Time: 5/2/23 1330	Company: AECOM																																		
Relinquished by: Alex Edmonds		Date/Time: 5/3/23 1330	Company:	Received by: [Signature]		Date/Time: 5/4/23 10:30	Company:																																		
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: 16/1.4																																					

1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11



**Chain of Custody Record**

016-87850943

<b>Client Information</b>		Sampler Tyler Nishikawa		Lab PM: Elaine Walker		Carrier Tracking No(s) FedEx		COC No 2305W1AFEAO3																																				
Client Contact:		Phone 808-786-3840		E-Mail: M.Elaine.Walker@EurofinsET.com		State of Origin: Hawaii		Page 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 rowspan="5" style="writing-mode: vertical-rl; transform: rotate(180deg);">Field Filtered Sample (Yes or No)</td> <td rowspan="5" style="writing-mode: vertical-rl; transform: rotate(180deg);">Perform MS/MSD (Yes or No)</td> <td colspan="6" rowspan="5" style="text-align: center; vertical-align: middle;">           8015C_DAL_GL_DS/2-(2-butoxyethoxy)-ethanol         </td> <td rowspan="5" style="writing-mode: vertical-rl; transform: rotate(180deg);">Total Number of Containers</td> </tr> <tr><td colspan="6"></td></tr> <tr><td colspan="6"></td></tr> <tr><td colspan="6"></td></tr> <tr><td colspan="6"></td></tr> </table>						Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015C_DAL_GL_DS/2-(2-butoxyethoxy)-ethanol						Total Number of Containers																									Preservation Codes	
Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015C_DAL_GL_DS/2-(2-butoxyethoxy)-ethanol																	Total Number of Containers																									
City Honolulu		TAT Requested (days) Rush - 5 Day		Compliance Project. <input type="checkbox"/> Yes <input type="checkbox"/> No		A HCL M Hexane		B NaOH N None																																				
State Zip Hawaii 96813		PO #		WO #		C Zn Acetate O AsNaO2		D Nitric Acid P Na2O4S																																				
Phone 808-954-4512 / 770-331-0794		Project # 60697810		SSOW#		E NaHSO4 Q Na2SO3		F MeOH R Na2S2O3																																				
Email Watson Tanji (watson.tanji@aecom.com)/ Mark Kromis (mark.kromis@aecom.com)		Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)																																				
Project Name CTO N6274223F0104		Sample Date 5/2/23		Sample Time 1215		G		W																																				
Site RHSEF		Sample Date		Sample Time		G		W																																				
<b>Sample Identification</b>		Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)																																				
AF-RHMW10-WGN01LF-2305W1		5/2/23		1215		G		W																																				
Preservation Code		Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)																																				
A		5/2/23		1215		G		W																																				
Total Number of Containers		Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)																																				
3		5/2/23		1215		G		W																																				
<b>Possible Hazard Identification</b>		Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)																																				
<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		5/2/23		1215		G		W																																				
<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months		5/2/23		1215		G		W																																				
Deliverable Requested I, II, III, IV, Other (specify)		Prelim data (Level 1or2)=see TAT above DoD Stage 4 report standard TAT. AECOM EQUIS FDD.		Special Instructions/QC Requirements		DOD QSM project.																																						
Empty Kit Relinquished by:		Date		Time		Method of Shipment:																																						
Relinquished by Tyler Nishikawa		Date/Time 5/2/23 1330		Company AECOM		Received by Alex Edmunds		Date/Time 5/2/23 1330																																				
Relinquished by Alex Edmunds		Date/Time 5/3/23 1330		Company		Received by Victor		Date/Time 5/4/23 10:30																																				
Relinquished by		Date/Time		Company		Received by		Date/Time																																				
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks.		1.6/1.4																																						

# Login Sample Receipt Checklist

Client: AECOM

Job Number: 580-126874-1

**Login Number: 126874**

**List Number: 2**

**Creator: Johnson, Corey M**

**List Source: Eurofins Savannah**

**List Creation: 05/05/23 04:48 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	

