



ANALYTICAL REPORT

PREPARED FOR

Attn: Terri Choy
AECOM

1001 Bishop Street
Honolulu, Hawaii 96813

Generated 12/19/2023 3:11:45 PM

JOB DESCRIPTION

Red Hill - AFFF Assessment Sampling

JOB NUMBER

580-134883-1

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
Tracy Dutton, Client Relations Manager
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(253)248-4970



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Case Narrative

Client: AECOM
Project: Red Hill - AFFF Assessment Sampling

Job ID: 580-134883-1

Job ID: 580-134883-1

Eurofins Seattle

Job Narrative 580-134883-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Receipt

The samples were received on 12/12/2023 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 time was 5.1°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.

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

Samples AF-HDMW225303-WGN01LF-2312 (134883-1), AF-RHMW02-WGFD01LF-2312 (134883-4), AF-RHMW02-WGN01LF-2312 (134883-3) and AF-RHMW03-WGN01LF-2312 (134883-2) were analyzed for Glycols- Direct Injection (GC/FID). The samples were analyzed on 12/18/2023.

The closing continuing calibration verification (CCV) associated with batch 680-814101 recovered outside acceptance criteria, low biased, for 2-(2-Butoxyethoxy)ethanol. A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte, the data has been reported.

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Definitions/Glossary

Client: AECOM

Job ID: 580-134883-1

Project/Site: Red Hill - AFFF Assessment Sampling

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
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

Job ID: 580-134883-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-HDMW225303-WGN01LF-2312

Lab Sample ID: 580-134883-1

Date Collected: 12/08/23 09:55

Matrix: Water

Date Received: 12/12/23 13:00

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			12/18/23 22:10	1

- 1
- 2
- 3
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- 10
- 11

Client Sample Results

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

Job ID: 580-134883-1

Client Sample ID: AF-RHMW03-WGN01LF-2312

Lab Sample ID: 580-134883-2

Date Collected: 12/08/23 12:45

Matrix: Water

Date Received: 12/12/23 13:00

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			12/18/23 22:34	1

- 1
- 2
- 3
- 4
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- 9
- 10
- 11

Client Sample Results

Client: AECOM

Job ID: 580-134883-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW02-WGN01LF-2312

Lab Sample ID: 580-134883-3

Date Collected: 12/08/23 11:05

Matrix: Water

Date Received: 12/12/23 13:00

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			12/18/23 22:57	1

- 1
- 2
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- 10
- 11

Client Sample Results

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

Job ID: 580-134883-1

Client Sample ID: AF-RHMW02-WGFD01LF-2312

Lab Sample ID: 580-134883-4

Date Collected: 12/08/23 11:05

Matrix: Water

Date Received: 12/12/23 13:00

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			12/18/23 23:21	1

- 1
- 2
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QC Sample Results

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

Job ID: 580-134883-1

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

Lab Sample ID: MB 680-814101/11
Matrix: Water
Analysis Batch: 814101

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			12/18/23 20:13	1

Lab Sample ID: LCS 680-814101/1006
Matrix: Water
Analysis Batch: 814101

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	17.2		mg/L		86	50 - 150

Lab Sample ID: LCSD 680-814101/7
Matrix: Water
Analysis Batch: 814101

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	15.4		mg/L		77	50 - 150	11	50

Lab Sample ID: 580-134883-1 MS
Matrix: Water
Analysis Batch: 814101

Client Sample ID: AF-HDMW225303-WGN01LF-2312
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
2-(2-Butoxyethoxy)ethanol	3.0	U Q	20.0	18.4		mg/L		92	50 - 150

Lab Sample ID: 580-134883-1 MSD
Matrix: Water
Analysis Batch: 814101

Client Sample ID: AF-HDMW225303-WGN01LF-2312
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	3.0	U Q	20.0	16.5		mg/L		83	50 - 150	11	50

Lab Chronicle

Client: AECOM

Job ID: 580-134883-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-HDMW225303-WGN01LF-2312

Lab Sample ID: 580-134883-1

Date Collected: 12/08/23 09:55

Matrix: Water

Date Received: 12/12/23 13:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015C GLY		1	814101	DBM	EET SAV	12/18/23 22:10

Client Sample ID: AF-RHMW03-WGN01LF-2312

Lab Sample ID: 580-134883-2

Date Collected: 12/08/23 12:45

Matrix: Water

Date Received: 12/12/23 13:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015C GLY		1	814101	DBM	EET SAV	12/18/23 22:34

Client Sample ID: AF-RHMW02-WGN01LF-2312

Lab Sample ID: 580-134883-3

Date Collected: 12/08/23 11:05

Matrix: Water

Date Received: 12/12/23 13:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015C GLY		1	814101	DBM	EET SAV	12/18/23 22:57

Client Sample ID: AF-RHMW02-WGFD01LF-2312

Lab Sample ID: 580-134883-4

Date Collected: 12/08/23 11:05

Matrix: Water

Date Received: 12/12/23 13:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015C GLY		1	814101	DBM	EET SAV	12/18/23 23:21

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: 580-134883-1

Laboratory: Eurofins Savannah

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

<u>Authority</u>	<u>Program</u>	<u>Identification Number</u>	<u>Expiration Date</u>
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.

<u>Analysis Method</u>	<u>Prep Method</u>	<u>Matrix</u>	<u>Analyte</u>
8015C GLY		Water	2-(2-Butoxyethoxy)ethanol

- 1
- 2
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- 10
- 11

Sample Summary

Client: AECOM

Job ID: 580-134883-1


Project/Site: Red Hill - AFFF Assessment Sampling

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-134883-1	AF-HDMW225303-WGN01LF-2312	Water	12/08/23 09:55	12/12/23 13:00
580-134883-2	AF-RHMW03-WGN01LF-2312	Water	12/08/23 12:45	12/12/23 13:00
580-134883-3	AF-RHMW02-WGN01LF-2312	Water	12/08/23 11:05	12/12/23 13:00
580-134883-4	AF-RHMW02-WGFD01LF-2312	Water	12/08/23 11:05	12/12/23 13:00

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- 11

Chain of Custody Record

AWB: 016-96783083

Client Information		Sampler: <u>Laine Sakai</u>		Lab PM: <u>Elaine Walker</u> FO 12/14/23		Carrier Tracking No(s): <u>FedEx United Cargo</u>		COC No: <u>2312AFEA04</u>			
Client Contact:		Phone:		E-Mail: <u>M.Elaine.Walker@EurofinsET.com</u>		State of Origin: <u>Hawaii</u>		Page: <u>Page 1 of 1</u>			
Company: <u>AECOM</u>		PWSID:		Analysis Requested						Job #:	
Address: <u>1001 Bishop St. Suite 1600</u>		Due Date Requested: <u>see subcontract</u>		Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> Perform MSMSD (Yes or No) <input checked="" type="checkbox"/> <small>8015C_DAL_GL_DS/2-(2-butoxyethoxy)ethanol</small>		L/S $12.09.23$ $P.5$		Total Number of containers 3		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)	
City: <u>Honolulu</u>		TAT Requested (days): <u>Rush - 5 Day</u>									
State, Zip: <u>Hawaii 96813</u>		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No									
Phone: <u>808-954-4512 / 770-331-0794</u>		PO #:									
Email: <u>Watson Tanji (watson.tanji@aecom.com) / Mark Kromis (mark.kromis@aecom.com)</u>		WO #:									
Project Name: <u>CTO N6274223F0104</u>		Project #: <u>60697810</u>		Special Instructions/Note:							
Site: <u>RHSF</u>		SSOW#:									
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=oil, T=tissue, A=air)	Field Filtered Sample (Yes or No)	Perform MSMSD (Yes or No)	Preservation Code:	Special Instructions/Note:		
AF-HDMW225303-WGN01LF-2312		12.09.23	0959	G	W	N	N	X			
<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="font-size: 24pt; font-weight: bold;">3</div> <div style="text-align: center;">  580-134883 Chain of Custody </div> </div>											
Possible Hazard Identification				Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)							
<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 EQHS FDD.			Special Instructions/QC Requirements: DOD QSM project.				
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:					
Relinquished by: <u>Laine Sakai</u>		Date/Time: <u>12.09.23 1320</u>		Company: <u>AECOM</u>		Received by: <u>Alex Edmonds</u>		Date/Time: <u>12/18/23 1320</u>		Company: <u>AECOM</u>	
Relinquished by: <u>Brittany Tominez for Alex Edmonds</u>		Date/Time: <u>12/14/23 1310</u>		Company: <u>AECOM</u>		Received by: <u>[Signature]</u>		Date/Time: <u>CS 12/14/23</u>		Company:	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time: <u>12/14/23 1300</u>		Company:	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:			Cooler Temperature(s) °C and Other Remarks: <u>12/17/23 4.8/5.1</u>						

Chain of Custody Record

AWG: 016-96783083

Client Information				Sampler: <u>Matt Yin</u>	Lab PM: Elaine Walker <u>12/11/23</u>	Carrier Tracking No(s): <u>FedEx United Cargo</u>	COC No: 2312AFEA02																																						
Client Contact:				Phone:	E-Mail: <u>M.Elaine.Walker@EurofinsET.com</u>	State of Origin: Hawaii	Page: Page 1 of 1																																						
Company: <u>AECOM</u>				PWSID:			Job #:																																						
Address: 1001 Bishop St. Suite 1600				Due Date Requested: see subcontract				Analysis Requested <div style="border: 1px solid black; padding: 5px; text-align: center;"> <u>MA 12/18/23</u> </div>																																					
City: Honolulu				TAT Requested (days): <u>Rush - 5 Day</u>																																									
State, Zip: Hawaii 96813				Compliance Project: <input type="checkbox"/> Yes <input checked="" 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				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 K - DI Water V - MCAA L - EDA W - pH 4-5 Z - other (specify)																																					
Site: RHSF				SSOW#:																																									
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, Sealed, Overstuffed, BT=Toxic, 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	Special Instructions/Note:																																			
AF-RHWW03-WGN01LF-2312		<u>12/8/23</u>	<u>1245</u>	G	W	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	3																																	
<u>NY 12/8/23</u>																																													
<table border="0" style="width: 100%;"> <tr> <td colspan="5"> 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"/> Unknown <input type="checkbox"/> Radiological </td> <td colspan="6"> Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months </td> </tr> <tr> <td colspan="4">Deliverable Requested: I, II, III, IV, Other (specify)</td> <td colspan="4">Prelim data (Level 1or2)=see TAT above. DoD Stage 4 report standard TAT. AECOM EQUIS EDD.</td> <td colspan="3">Special Instructions/QC Requirements: DOD QSM project.</td> </tr> </table>											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"/> Unknown <input type="checkbox"/> Radiological					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <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 EDD.				Special Instructions/QC Requirements: DOD QSM project.															
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"/> Unknown <input type="checkbox"/> Radiological					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months																																								
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<table border="0" style="width: 100%;"> <tr> <td colspan="2">Empty Kit Relinquished by:</td> <td colspan="3">Date:</td> <td colspan="2">Time:</td> <td colspan="4">Method of Shipment:</td> </tr> <tr> <td colspan="2">Relinquished by: <u>Matt Yin</u></td> <td colspan="3">Date/Time: <u>12/8/23 1437</u></td> <td colspan="2">Company: <u>AECOM</u></td> <td colspan="2">Received by: <u>Brittany Tominez</u></td> <td colspan="2">Date/Time: <u>12/8/23 1437</u></td> <td colspan="1">Company: <u>AECOM</u></td> </tr> <tr> <td colspan="2">Relinquished by: <u>Brittany Tominez</u></td> <td colspan="3">Date/Time: <u>12/8/23 1310</u></td> <td colspan="2">Company: <u>AECOM</u></td> <td colspan="2">Received by: <u>[Signature]</u></td> <td colspan="2">Date/Time: <u>12/12/23 1300</u></td> <td colspan="1">Company: _____</td> </tr> </table>											Empty Kit Relinquished by:		Date:			Time:		Method of Shipment:				Relinquished by: <u>Matt Yin</u>		Date/Time: <u>12/8/23 1437</u>			Company: <u>AECOM</u>		Received by: <u>Brittany Tominez</u>		Date/Time: <u>12/8/23 1437</u>		Company: <u>AECOM</u>	Relinquished by: <u>Brittany Tominez</u>		Date/Time: <u>12/8/23 1310</u>			Company: <u>AECOM</u>		Received by: <u>[Signature]</u>		Date/Time: <u>12/12/23 1300</u>		Company: _____
Empty Kit Relinquished by:		Date:			Time:		Method of Shipment:																																						
Relinquished by: <u>Matt Yin</u>		Date/Time: <u>12/8/23 1437</u>			Company: <u>AECOM</u>		Received by: <u>Brittany Tominez</u>		Date/Time: <u>12/8/23 1437</u>		Company: <u>AECOM</u>																																		
Relinquished by: <u>Brittany Tominez</u>		Date/Time: <u>12/8/23 1310</u>			Company: <u>AECOM</u>		Received by: <u>[Signature]</u>		Date/Time: <u>12/12/23 1300</u>		Company: _____																																		
Custody Seals Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:				Cooler Temperature (°C) and Other Remarks: <u>4-8/5.1</u>																																							

Chain of Custody Record

AWB: 016-96783183

Client Information		Sampler: <u>Maxt Yin</u>	Lab PM: <u>Elaine Walker</u>	Carrier Tracking No(s): <u>FedEx United Cargo</u>	COC No: <u>2312AFE01</u>					
Client Contact:		Phone: <u>808-349-4738</u>	E-Mail: <u>M.Elaine.Walker@EurofinsET.com</u>	State of Origin: <u>Hawaii</u>	Page: <u>Page 1 of 1</u>					
Company: <u>AECOM</u>		PWSID:	Analysis Requested		Job #:					
Address: <u>1001 Bishop St. Suite 1600</u>		Due Date Requested: <u>see subcontract</u>	<div style="border: 1px solid black; padding: 5px;"> <p>Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/></p> <p>Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/></p> <p>8018C.DAL.GL.D8/2-(2-butoxyethoxy)-ethanol</p> <p style="text-align: center; font-size: 2em; font-weight: bold;">MY 12/8/23</p> </div>		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: <u>Honolulu</u>		TAT Requested (days): <u>Rush - 5 Day</u>								
State, Zip: <u>Hawaii 96813</u>		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No								
Phone: <u>808-954-4512 / 770-331-0794</u>		PO #:								
Email: <u>Watson Tanji (watson.tanji@aecom.com) / Mark Kromis (mark.kromis@aecom.com)</u>		WO #:								
Project Name: <u>CTO N6274223F0104</u>		Project #: <u>60697810</u>								
Site: <u>RHSF</u>		SSOW#:								
Sample Identification		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=organic/soil, BT=Tissue, AA=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8018C.DAL.GL.D8/2-(2-butoxyethoxy)-ethanol	Total Number of Containers	Special Instructions/Note:
				Preservation Code:		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	A		
<u>AF-RHMW02-WGN01LF-2312</u>		<u>12/8/23</u>	<u>1105</u>	<u>G</u>	<u>W</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	X	<u>3</u>	
<u>AF-RHMW02-WGFD01LF-2312</u>		<u>12/8/23</u>	<u>1105</u>	<u>G</u>	<u>W</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	X	<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"/> Unknown <input type="checkbox"/> Radiological				Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)				
						<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 EQ/IS EDD.				Special Instructions/QC Requirements: DOD QSM project.				
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:				
Relinquished by: <u>Maxt Yin</u>		Date/Time: <u>12/8/23 1437</u>		Company: <u>AECOM</u>		Received by: <u>Brittany Tominez</u>		Date/Time: <u>12/8/23 1437</u>		Company: <u>AECOM</u>
Relinquished by: <u>Brittany Tominez</u>		Date/Time: <u>12/11/23 1310</u>		Company: <u>AECOM</u>		Received by: <u>[Signature]</u>		Date/Time: <u>12/12/23 1300</u>		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: <u>4.8/5.1</u>				

Login Sample Receipt Checklist

Client: AECOM

Job Number: 580-134883-1

Login Number: 134883

List Source: Eurofins Seattle

List Number: 1

Creator: Johnson, Corey M

Question	Answer	Comment
Radioactivity wasn't checked or is \leq 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 <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

