



ANALYTICAL REPORT

PREPARED FOR

Attn: Terri Choy
AECOM

1001 Bishop Street
Honolulu, Hawaii 96813

Generated 9/19/2023 11:44:22 AM

JOB DESCRIPTION

Red Hill - AFFF Assessment Sampling

JOB NUMBER

580-131418-1

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
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Case Narrative

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

Job ID: 580-131418-1

Job ID: 580-131418-1

Laboratory: Eurofins Seattle

Narrative

CASE NARRATIVE

Client: AECOM
Project: Red Hill - AFFF Assessment Sampling
Report Number: 580-131418-1

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

Seven samples were received on 9/12/2023 2:28 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 4.2° C.

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

GLYCOLS

Samples AF-RHMW17D-WGN01LF-2309 (580-131418-1), AF-RHMW17D-WQFB01-2309 (580-131418-2), AF-RHMW04-WGN01LF-2309 (580-131418-3), AF-RHMW16-WGN01LF-2309 (580-131418-4), AF-RHMW03-WGN01LF-2309 (580-131418-5), AF-RHMW17-WGN01LF-2309 (580-131418-6) and AF-RHMW06-WGN01LF-2309 (580-131418-7) were analyzed for glycols in accordance with EPA SW-846 Method 8015B - DAI. The samples were analyzed on 09/14/2023 and 09/18/2023.

The closing continuing calibration verification (CCV) associated with batch 680-798455 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 has been reported.

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: 580-131418-1

Project/Site: Red Hill - AFFF Assessment Sampling

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
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: 580-131418-1

Client Sample ID: AF-RHMW17D-WGN01LF-2309

Lab Sample ID: 580-131418-1

Date Collected: 09/08/23 11:50

Matrix: Water

Date Received: 09/12/23 14:28

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	5.0	1.1	mg/L			09/14/23 00:12	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: 580-131418-1

Client Sample ID: AF-RHMW17D-WQFB01-2309

Lab Sample ID: 580-131418-2

Date Collected: 09/08/23 11:20

Matrix: Water

Date Received: 09/12/23 14:28

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			09/14/23 00:35	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: 580-131418-1

Client Sample ID: AF-RHMW04-WGN01LF-2309

Lab Sample ID: 580-131418-3

Date Collected: 09/08/23 09:20

Matrix: Water

Date Received: 09/12/23 14:28

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	5.0	1.1	mg/L			09/14/23 00:58	1

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

Client Sample Results

Client: AECOM

Job ID: 580-131418-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW16-WGN01LF-2309

Lab Sample ID: 580-131418-4

Date Collected: 09/07/23 12:35

Matrix: Water

Date Received: 09/12/23 14:28

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			09/14/23 01:21	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: 580-131418-1

Client Sample ID: AF-RHMW03-WGN01LF-2309

Lab Sample ID: 580-131418-5

Date Collected: 09/07/23 13:40

Matrix: Water

Date Received: 09/12/23 14:28

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			09/18/23 18:18	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: 580-131418-1

Client Sample ID: AF-RHMW17-WGN01LF-2309

Lab Sample ID: 580-131418-6

Date Collected: 09/08/23 13:45

Matrix: Water

Date Received: 09/12/23 14:28

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			09/14/23 02:07	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: 580-131418-1

Client Sample ID: AF-RHMW06-WGN01LF-2309

Lab Sample ID: 580-131418-7

Date Collected: 09/08/23 12:10

Matrix: Water

Date Received: 09/12/23 14:28

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			09/14/23 02:30	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: 580-131418-1

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

Lab Sample ID: MB 680-797719/18
Matrix: Water
Analysis Batch: 797719

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 M	5.0	1.1	mg/L			09/13/23 17:54	1

Lab Sample ID: LCS 680-797719/14
Matrix: Water
Analysis Batch: 797719

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	22.1		mg/L		111	50 - 150

Lab Sample ID: LCSD 680-797719/15
Matrix: Water
Analysis Batch: 797719

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	21.6		mg/L		108	50 - 150	2	50

Lab Sample ID: MB 680-798455/11
Matrix: Water
Analysis Batch: 798455

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			09/18/23 17:55	1

Lab Sample ID: LCS 680-798455/1006
Matrix: Water
Analysis Batch: 798455

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	18.4		mg/L		92	50 - 150

Lab Sample ID: LCSD 680-798455/8
Matrix: Water
Analysis Batch: 798455

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	20.9		mg/L		105	50 - 150	13	50

Lab Chronicle

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

Job ID: 580-131418-1

Client Sample ID: AF-RHMW17D-WGN01LF-2309

Lab Sample ID: 580-131418-1

Date Collected: 09/08/23 11:50

Matrix: Water

Date Received: 09/12/23 14:28

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015C GLY		1	797719	DBM	EET SAV	09/14/23 00:12

Client Sample ID: AF-RHMW17D-WQFB01-2309

Lab Sample ID: 580-131418-2

Date Collected: 09/08/23 11:20

Matrix: Water

Date Received: 09/12/23 14:28

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015C GLY		1	797719	DBM	EET SAV	09/14/23 00:35

Client Sample ID: AF-RHMW04-WGN01LF-2309

Lab Sample ID: 580-131418-3

Date Collected: 09/08/23 09:20

Matrix: Water

Date Received: 09/12/23 14:28

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015C GLY		1	797719	DBM	EET SAV	09/14/23 00:58

Client Sample ID: AF-RHMW16-WGN01LF-2309

Lab Sample ID: 580-131418-4

Date Collected: 09/07/23 12:35

Matrix: Water

Date Received: 09/12/23 14:28

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015C GLY		1	797719	DBM	EET SAV	09/14/23 01:21

Client Sample ID: AF-RHMW03-WGN01LF-2309

Lab Sample ID: 580-131418-5

Date Collected: 09/07/23 13:40

Matrix: Water

Date Received: 09/12/23 14:28

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015C GLY		1	798455	DBM	EET SAV	09/18/23 18:18

Client Sample ID: AF-RHMW17-WGN01LF-2309

Lab Sample ID: 580-131418-6

Date Collected: 09/08/23 13:45

Matrix: Water

Date Received: 09/12/23 14:28

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015C GLY		1	797719	DBM	EET SAV	09/14/23 02:07

Client Sample ID: AF-RHMW06-WGN01LF-2309

Lab Sample ID: 580-131418-7

Date Collected: 09/08/23 12:10

Matrix: Water

Date Received: 09/12/23 14:28

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015C GLY		1	797719	DBM	EET SAV	09/14/23 02:30

Laboratory References:

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

Eurofins Seattle

Accreditation/Certification Summary

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

Job ID: 580-131418-1

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: 580-131418-1

Project/Site: Red Hill - AFFF Assessment Sampling

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-131418-1	AF-RHMW17D-WGN01LF-2309	Water	09/08/23 11:50	09/12/23 14:28
580-131418-2	AF-RHMW17D-WQFB01-2309	Water	09/08/23 11:20	09/12/23 14:28
580-131418-3	AF-RHMW04-WGN01LF-2309	Water	09/08/23 09:20	09/12/23 14:28
580-131418-4	AF-RHMW16-WGN01LF-2309	Water	09/07/23 12:35	09/12/23 14:28
580-131418-5	AF-RHMW03-WGN01LF-2309	Water	09/07/23 13:40	09/12/23 14:28
580-131418-6	AF-RHMW17-WGN01LF-2309	Water	09/08/23 13:45	09/12/23 14:28
580-131418-7	AF-RHMW06-WGN01LF-2309	Water	09/08/23 12:10	09/12/23 14:28

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Chain of Custody Record

Client Information Client Contact: Marian Gascho Phone: 2245089782 Company: AECOM		Lab PM: Elaine Walker E-Mail: M.Elaine.Walker@EurofinsET.com Carrier Tracking No(s): AWP 2309AFE11 FedEx: White State of Origin: Hawaii Page: 1 of 1 Job #: 06-4886344	
Address: 1001 Bishop St. Suite 1600 City: Honolulu State, Zip: Hawaii 96813 Phone: 808-954-4512 / 770-331-0794 Email: Watson.Tanji@aecom.com / Mark.Kromis@aecom.com Project Name: CTO N6274223F0104 Site: RHSF		Analysis Requested Due Date Requested: see subcontract TAT Requested (days): Rush - 5 Day Compliance Project: Δ Yes Δ No PO #: 60697810 WO #: 60697810 Project #: 60697810 SOW#: 60697810	
Sample Identification AF-RHMW17D-WGN01LF-2309 AF-RHMW17D-WQFB01-2309		Perform Matrix: 801SC_DAL_GL_DS/2-(2-butoxyethoxy)-ethanol Field Filtered Sample (Yes or No): X A Preservation Code: A Sample Date: 9/8/23 Sample Time: 1150 Sample Type (C=comp, G=grab): G Matrix (Water, Solid, Swab, Air, etc.): W Total Number of Containers: 3 Special Instructions/Note: 580-131418 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		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 _____ Months	
Empty Kit Relinquished by: Relinquished by: Marian Gascho AECOM Date/Time: 9/8/23 1540 Relinquished by: Alex Edmonds AECOM Date/Time: 9/11/23 1000 Relinquished by: Alex Edmonds AECOM Date/Time: 9/12/23 1428		Received by: Received by: Alex Edmonds Date/Time: 9/8/23 1590 Received by: [Signature] Date/Time: 9/12/23 1428	
Custody Seals Intact: Δ Yes Δ No		Custody Seal No.: 41/4.2	



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



Chain of Custody Record

Client Information		Lab PM: Elaine Walker		COC No: 2309AFE08	
Client Contact: Tyler Nishikawa		FedEx: VATED Awaji		Page: 1 of 1	
Phone: 808-286-3840		State of Origin: Hawaii		Job #:	
E-Mail: M.Elaine.Walker@EurofinsET.com		Analysis Requested Total Number of Containers: 3 Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2SO4S E - NaHSO4 F - MeOH R - Na2S2O3 S - H2SO4 G - Amiclor H - Ascorbic Acid I - Ice J - DI Water U - Acetone V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify) Other:			
Due Date Requested: see subcontract					
TAT Requested (days): Rush - 5 Day					
Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Field Filtered Sample (Yes or No)		Special Instructions/Note:	
PO #:		8015C_DAL_GL_D5/2-2-butoxyethoxy-ethanol		A	
WO #:		Matrix (Water, Solid, Organic, Inorganic, Air, etc.)		W	
Project #:		Sample Type (C=Comp, G=grab)		G	
Site: RHSF		Sample Date		9/18/23	
Sample Identification		Sample Time		0700	
AF-RHMW04-WGN01LF-2309		Preservation Code:		A	
Possible Hazard Identification		Retention Code:		N N X	
<input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Radioactive		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 Special Instructions/QC Requirements: DOD QSM project. report standard TAT - AECOM EQUIS EDD.	
Relinquished by: Tyler Nishikawa		Date:		9/18/23	
Relinquished by: Ellie Shimatsu		Date/Time:		9/18/23 1300	
Relinquished by:		Date/Time:		9/12/23 1428	
Custody Seal Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		4.1/4.2	



Chain of Custody Record

Client Information Client Contact: Ave Aspili Phone: (332) 799-9051 PWSID:		Lab PM: Elaine Walker E-Mail: M.Elaine.Walker@EurofinsET.com		Carrier Tracking No(s): FedEx United AWB State of Origin: Hawaii Job #: 016-1806345		COC No: 2309AFEAO6 Page: 1 of 1	
Due Date Requested: see subcontract TAT Requested (days): Rush - 5 Day		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No		PO #:		Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2O4S R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 X - EDTA Y - EDA Z - other (specify)	
Address: 1001 Bishop St, Suite 1600 City: Honolulu State, Zip: Hawaii 96813 Phone: 808-954-4512 / 770-331-0794		Email: Watson.Tanj@aeocom.com / Mark.Kromis@aeocom.com Project Name: CTO N6274223F0104		WO #:		Project #: 60697810 SSOW#:	
Site: RHSE		Sample Date: 9/12/23		Sample Time: 1235		Sample Type (C=Comp, G=grab): G	
Sample Identification: AF-RHMW16-WGN01LF-2309		Matrix (Water, Solid, Gaseous, etc.):		Preservation Code: W		Field Filtered Sample (Yes or No): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Possible Hazard Identification: <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B		Deliverable Requested: I, II, III, IV, Other (specify)		Unknown <input type="checkbox"/> <input checked="" type="checkbox"/> Radoncological		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	
Relinquished by: Ave Aspili		Date/Time: 9/12/23 1415		Company: AECOM		Relinquished by: Miranda Desarmo	
Relinquished by: Miranda Desarmo		Date/Time: 9/12/23 1000		Company:		Relinquished by:	
Relinquished by:		Date/Time:		Company:		Relinquished by:	
Custody Seals Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) and Other Remarks: 4.1, 4.2		Method of Shipment:	

Chain of Custody Record

Client Information Client Contact: Yvonne Nishikawa Phone: 808-281-3810 PWSID:		Lab PI#: Elaine Walker E-Mail: M.Elaine.Walker@EurofinsET.com State of Origin: Hawaii Job #:		COC No.: 2309AFEAE02 Page: Page 1 of 1	
Due Date Requested: TAT Requested (days): Rush - 5 Day Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No PO #:		Analysis Requested Total Number of Containers: 3 Special Instructions/Note:		Preservation Codes: 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:	
Project #: 60697810 Site: RHSF		Sample Identification Sample Date: 9/17/23 Sample Time: 1340 Sample Type (C=Comp, G=grab): G Matrix (W=Water, S=Soil, B=Bi-Tissue, A=Air):		Field Filtered Sample (Yes or No): A Preservation Code: N N X 8015C_DAL_GL_D5-2-(2-butoxyethoxy)-ethanol	
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)	
Relinquished by: Yvonne Nishikawa Relinquished by: Eli Martin Relinquished by:		Date: 9/17/23 Date: 9/17/23 Date:		Method of Shipment:	
Custody Seals Intact: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Cooler Temperature(s) and Other Remarks:		Received by: Eli Martin Date/Time: 9/17/23 1530 Received by: [Signature] Date/Time: 9/17/23 1000 Received by: [Signature] Date/Time: 9/12/23 1428 Company: AECOM Company: Company: Company:	



Chain of Custody Record

Client Information Client Contact: Company: AECOM Address: 1001 Bishop St, Suite 1600 City: Honolulu State, Zip: Hawaii 96813 Phone: 808-954-4512 / 770-331-0794 Email: Watson.Tanji@aecom.com / Mark.Kromis@aecom.com Project Name: CTO N6274223F0104 Site: RHSF			Lab PM: Elaine Walker E-Mail: M.Elaine.Walker@EurofinsET.com PWSID:			Sampler: MG MU FS Phone:			Carrier Tracking No(s): FedEx United AWB: 016-4883445 State of Origin: Hawaii Page: Page 1 of 1 Job #:			COC No: 2309AFEA10 Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - NaOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDTA Other:		
Due Date Requested: see subcontract TAT Requested (days): Rush - 5 Day Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No PO #:			Analysis Requested EM 9/11/23			Total Number of Containers: 3			Special Instructions/Note:					
Sample Date: 9/18/23 Sample Time: 1345 Sample Type (C=comp, G=grab): G Matrix (W=water, S=solid, O=oils, B=bitumen, A=air): W			Field Filtered Sample (Yes or No): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 8015C_DAL_GL_DS/2-(2-butoxyethoxy)-ethanol Perle M			Return To Client: <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Archive For _____ Months			Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)					
Possible Hazard Identification <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B Deliverable Requested: I, II, III, IV, Other (specify)			Method of Shipment:			Prelim data (Level 1 or 2) = see TAT above. DoD Stage 4 report standard TAT - AECOM EQUIS EDD.			Date:					
Relinquished by: Alex Edmond Relinquished by: Alex Edmond Relinquished by: Alex Edmond			Date: 9/18/23 1530 Date: 9/11/23 1000 Date:			Company: AECOM Company: AECOM Company:			Received by: Alex Edmond Received by: Received by:					
Custody Seals Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			Cooler (Temperature(s) °C and Other Remarks): 4/1/4.2			Ver: 01/16/2019								



Chain of Custody Record

Client Information Client Contact: Tyler Nielsen Phone: 808-286-3890 PWSID:		Lab PM: Elaine Walker E-Mail: M.Elaine.Walker@EurofinsET.com Carrier Tracking No(s): Feedx United Awbi State of Origin: Hawaii Hawaii: 016--18163445		COC No: 2309AFEAO9 Page: Page 1 of 1 Job #:	
Due Date Requested: see subcontract TAT Requested (days): Rush - 5 Day		Analysis Requested 8015C_DAL_GL_DS/2-(2-butoxyethoxy)-ethanol Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Preservation Codes: 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:	
Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No PO #:		Sample Date: 9/18/23 Sample Time: 1210 Sample Type (C=Comp, G=grab): G Matrix (Metal, Seawater, Organics, BTEX, PAHs, AAs):		Total Number of Containers: 3 Special Instructions/Note:	
Project #: 60697810 SOW#:		Preservation Code: A 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 checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	
Email: Watson.Tanji@aeocom.com / Mark.Kromis@aeocom.com Project Name: CTO N6274223F0104 Site: RHSF		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"/> Unknwn <input type="checkbox"/> Radiological		Prelim data (Level 1or2)=see TAT above. DoD Stage 4 Special Instructions/QC Requirements: DOD QSM project. report standard TAT_AECOM/EQUIS/EDD	
Relinquished by: Elaine Walker Date: 9/18/23 1400 Company: AECOM		Relinquished by: Elie Shimatsu Date: 9/19/23 1000 Company: AECOM		Relinquished by: Elie Shimatsu Date: 9/19/23 1400 Company: AECOM	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:	



Login Sample Receipt Checklist

Client: AECOM

Job Number: 580-131418-1

Login Number: 131418

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	

