

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

Attn: Terri Choy
AECOM
1001 Bishop Street
Honolulu, Hawaii 96813
Generated 5/3/2023 10:22:48 AM

JOB DESCRIPTION

Red Hill - AFFF Assessment Sampling

JOB NUMBER

580-126567-1

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
5/3/2023 10:22:48 AM

Authorized for release by
Marie Walker, Senior Project Manager
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	11
Chronicle	12
Certification Summary	13
Sample Summary	14
Chain of Custody	15
Receipt Checklists	23

Case Narrative

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

Job ID: 580-126567-1

Job ID: 580-126567-1

Laboratory: Eurofins Seattle

Narrative

CASE NARRATIVE

Client: AECOM
Project: Red Hill - AFFF Assessment Sampling
Report Number: 580-126567-1

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

Five samples were received on 4/26/2023 10:30 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 0.6° 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-RHMW16-WGN01LF-2304W4 (580-126567-1), AF-RHMW12A-WGN01LF-2304W4 (580-126567-2), AF-RHMW12A-WGFD01LF-2304W4 (580-126567-3), AF-RHMW06-WGN01LF-2304W4 (580-126567-4) and AF-RHMW04-WGN01LF-2304W4 (580-126567-5) were analyzed for glycols in accordance with EPA SW-846 Method 8015B - DAI. The samples were analyzed on 05/01/2023.

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

Definitions/Glossary

Client: AECOM

Job ID: 580-126567-1

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: 580-126567-1

Client Sample ID: AF-RHMW16-WGN01LF-2304W4

Lab Sample ID: 580-126567-1

Date Collected: 04/24/23 12:55

Matrix: Water

Date Received: 04/26/23 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			05/01/23 17:18	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: 580-126567-1

Client Sample ID: AF-RHMW12A-WGN01LF-2304W4

Lab Sample ID: 580-126567-2

Date Collected: 04/24/23 10:00

Matrix: Water

Date Received: 04/26/23 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			05/01/23 17:42	1

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

Client Sample Results

Client: AECOM

Job ID: 580-126567-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW12A-WGFD01LF-2304W4

Lab Sample ID: 580-126567-3

Date Collected: 04/24/23 10:00

Matrix: Water

Date Received: 04/26/23 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			05/01/23 18:05	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: 580-126567-1

Client Sample ID: AF-RHMW06-WGN01LF-2304W4

Lab Sample ID: 580-126567-4

Date Collected: 04/24/23 10:45

Matrix: Water

Date Received: 04/26/23 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			05/01/23 19:15	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: 580-126567-1

Client Sample ID: AF-RHMW04-WGN01LF-2304W4

Lab Sample ID: 580-126567-5

Date Collected: 04/24/23 09:30

Matrix: Water

Date Received: 04/26/23 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			05/01/23 19:38	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: 580-126567-1

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

Lab Sample ID: MB 680-776218/9
Matrix: Water
Analysis Batch: 776218

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			05/01/23 14:59	1

Lab Sample ID: LCS 680-776218/5
Matrix: Water
Analysis Batch: 776218

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	18.0		mg/L		90	50 - 150

Lab Sample ID: LCSD 680-776218/6
Matrix: Water
Analysis Batch: 776218

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	17.6		mg/L		88	50 - 150	2	50

Lab Sample ID: 580-126567-3 MS
Matrix: Water
Analysis Batch: 776218

Client Sample ID: AF-RHMW12A-WGFD01LF-2304W4
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	20.0	18.2		mg/L		91	50 - 150

Lab Sample ID: 580-126567-3 MSD
Matrix: Water
Analysis Batch: 776218

Client Sample ID: AF-RHMW12A-WGFD01LF-2304W4
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	20.0	20.1		mg/L		100	50 - 150	10	50

Lab Chronicle

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

Job ID: 580-126567-1

Client Sample ID: AF-RHMW16-WGN01LF-2304W4

Lab Sample ID: 580-126567-1

Date Collected: 04/24/23 12:55

Matrix: Water

Date Received: 04/26/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015C GLY		1	776218	GEM	EET SAV	05/01/23 17:18

Client Sample ID: AF-RHMW12A-WGN01LF-2304W4

Lab Sample ID: 580-126567-2

Date Collected: 04/24/23 10:00

Matrix: Water

Date Received: 04/26/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015C GLY		1	776218	GEM	EET SAV	05/01/23 17:42

Client Sample ID: AF-RHMW12A-WGFD01LF-2304W4

Lab Sample ID: 580-126567-3

Date Collected: 04/24/23 10:00

Matrix: Water

Date Received: 04/26/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015C GLY		1	776218	GEM	EET SAV	05/01/23 18:05

Client Sample ID: AF-RHMW06-WGN01LF-2304W4

Lab Sample ID: 580-126567-4

Date Collected: 04/24/23 10:45

Matrix: Water

Date Received: 04/26/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015C GLY		1	776218	GEM	EET SAV	05/01/23 19:15

Client Sample ID: AF-RHMW04-WGN01LF-2304W4

Lab Sample ID: 580-126567-5

Date Collected: 04/24/23 09:30

Matrix: Water

Date Received: 04/26/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015C GLY		1	776218	GEM	EET SAV	05/01/23 19:38

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: 580-126567-1

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: 580-126567-1

Project/Site: Red Hill - AFFF Assessment Sampling

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-126567-1	AF-RHMW16-WGN01LF-2304W4	Water	04/24/23 12:55	04/26/23 10:30
580-126567-2	AF-RHMW12A-WGN01LF-2304W4	Water	04/24/23 10:00	04/26/23 10:30
580-126567-3	AF-RHMW12A-WGFD01LF-2304W4	Water	04/24/23 10:00	04/26/23 10:30
580-126567-4	AF-RHMW06-WGN01LF-2304W4	Water	04/24/23 10:45	04/26/23 10:30
580-126567-5	AF-RHMW04-WGN01LF-2304W4	Water	04/24/23 09:30	04/26/23 10:30

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

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

Chain of Custody Record

eurofins Environment Testing
 America

Client Information		Sampler: <i>Zoe Diemer</i>		Lab PM: Elaine Walker		Carrier Tracking No(s): FedEx		COC No: 2304W4AFE06			
Client Contact:		Phone: <i>805 218 9453</i>		E-Mail: M.Elaine.Walker@EurofinsET.com		State of Origin: Hawaii		Page: Page 1 of 1			
Company: AECOM		PWSID:		Analysis Requested				Job #: <i>126567</i>			
Address: 1001 Bishop St. Suite 1600 City: Honolulu State, Zip: Hawaii 96813 Phone: 808-954-4512 / 770-331-0794 Email: Watson Tanji (watson.tanji@aecom.com) / Mark Kromis (mark.kromis@aecom.com)		Due Date Requested: see subcontract TAT Requested (days): Rush - 5 Day Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No PO #: WO #:		Field Filtered Sample (Yes or No) 8018C_DAL_GL_DS 2-(2-butoxyethoxy)-ethanol <i>AN 4/24/23</i>				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 - EDTA Z - other (specify) Other:	
Project Name: CTO N6274223F0104 Site: RHSF		Project #: 60597810 SSOW#:								Special Instructions/Note:	
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Solid, Organic, Inorganic, etc.)	Preservation Code:					
AF-RHMW18-WGN01LF-2304W4		<i>4/24/23</i>	<i>1255</i>	<i>G</i>	<i>W</i>	<i>N</i>	<i>N</i>	<i>X</i>			
<i>AN 4/24/23</i>											
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 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 EQUS EDD.			Special Instructions/QC Requirements: DOD QSM project.						
Empty Kit Relinquished by:		Date:	Time:	Method of Shipment:							
Relinquished by: <i>Zoe Diemer</i>		Date/Time: <i>4/24/23 1401</i>	Company: AECOM	Received by: <i>Alex Edmonds</i>		Date/Time: <i>4/24/23 1401</i>	Company: <i>AECOM</i>				
Relinquished by: <i>Alex Edmonds</i>		Date/Time: <i>4/24/23 1415</i>	Company: AECOM	Received by: <i>[Signature]</i>		Date/Time: <i>4/26/23 1030</i>	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: <i>0.6/1.2</i>							



1
2
3
4
5
6
7
8
9
10
11

Chain of Custody Record

Client Information		Sampler: <i>M. Gascho</i>		Lab PM: Elaine Walker		Carrier Tracking No(s): FedEx		COC No: 2304W4AFE05																									
Client Contact:		Phone: <i>224-508-9732</i>		E-Mail: M.Elaine.Walker@EurofinsET.com		State of Origin: Hawaii		Page: Page 1 of 1																									
Company: AECOM		PWSID:		Analysis Requested				Job #:																									
Address: 1001 Bishop St. Suite 1600		Due Date Requested: see subcontract		Field Filtered Sample (Yes or No) 8015C_DAL_GL_DS/2-(2-butylthiophenyl)-ethanol <i>SPW</i> <i>4/25/23</i>				Preservation Codes:																									
City: Honolulu		TAT Requested (days): Rush - 5 Day						A - HCL		M - Hexane																							
State, Zip: Hawaii 96813		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No						B - NaOH		N - None																							
Phone: 808-954-4512 / 770-331-0794		PO #:						C - Zn Acetate		O - AsNaO2																							
Email: Watson Tanji (watson.tanji@aecom.com) / Mark Kromis (mark.kromis@aecom.com)		WD #:						D - Nitric Acid		P - Na2O4S																							
Project Name: CTO N6274223F0104		Project #: 60697810						E - NaHSO4		Q - Na2SO3																							
Site: RH5F		SSGW:		F - MeOH		R - Na2S2O3																											
Sample Identification		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Matrix (W=water, S=solid, O=organic, BT=Trace, A=Air)																									
						Preservation Code:		Total Number of containers																									
AF-RHMW12A-WGN01LF-2304W4		4/24/23		1000		G W		N N X																									
AF-RHMW12A-WGFD01LF-2304W4		4/24/23		1000		G W		N N X																									
<i>dn</i>		<i>4/24/23</i>																															
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.																																	
Empty Kit Relinquished by: <table border="1"> <thead> <tr> <th>Relinquished by:</th> <th>Date/Time:</th> <th>Company:</th> <th>Received by:</th> <th>Date/Time:</th> <th>Company:</th> </tr> </thead> <tbody> <tr> <td><i>Zoe Diermier</i></td> <td><i>4/24/23 1200</i></td> <td><i>AECOM</i></td> <td><i>Alex Edwards</i></td> <td><i>4/24/23 1200</i></td> <td><i>AECOM</i></td> </tr> <tr> <td><i>Alex Edwards</i></td> <td><i>4/24/23 1210</i></td> <td><i>AECOM</i></td> <td><i>[Signature]</i></td> <td><i>4/26/23 1020</i></td> <td><i>Company</i></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>										Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:	<i>Zoe Diermier</i>	<i>4/24/23 1200</i>	<i>AECOM</i>	<i>Alex Edwards</i>	<i>4/24/23 1200</i>	<i>AECOM</i>	<i>Alex Edwards</i>	<i>4/24/23 1210</i>	<i>AECOM</i>	<i>[Signature]</i>	<i>4/26/23 1020</i>	<i>Company</i>						
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:																												
<i>Zoe Diermier</i>	<i>4/24/23 1200</i>	<i>AECOM</i>	<i>Alex Edwards</i>	<i>4/24/23 1200</i>	<i>AECOM</i>																												
<i>Alex Edwards</i>	<i>4/24/23 1210</i>	<i>AECOM</i>	<i>[Signature]</i>	<i>4/26/23 1020</i>	<i>Company</i>																												
Custody Seals Intact: <input type="checkbox"/> Custody Seal No.:					Cooler Temperature(s) °C and Other Remarks:																												

0.6/1.2

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

Chain of Custody Record



Client Information		Sampler: <i>Nate Hogsten</i>		Lab PM: Elaine Walker		Carrier Tracking No(s):		COC No: 2304W4AFE09	
Client Contact:		Phone: <i>804-873-0525</i>		E-Mail: M.Elaine.Walker@EurofinsET.com		FedEx		Page: Page 1 of 1	
Company: AECOM		PWSID:		Analysis Requested		State of Origin: Hawaii		Job #:	
Address: 1001 Bishop St. Suite 1600		Due Date Requested: see subcontract		Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> Matrix (Water, Seach, Overstabil, etc.) 801EC, DAL, GL, DS, 2-(2-hydroxyethyl)-ethanol		Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - Ash/O2 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)		Total Number of containers: 3	
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 (wtanji@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 (Water, Seach, Overstabil, etc.)	Preservation Code:		Special instructions/Note:	
AF-RHMW06-WGNO1LF-2304W4		4/24/23	1045	G	W	N	N	X	N/A 4/24/23
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.			
Empty Kit Relinquished by:		Date:	Time:	Method of Shipment:					
Relinquished by: <i>W. JA</i>		Date/Time: 4/24/23 1135	Company: AECOM	Received by: <i>Alex Edwards</i>		Date/Time: 4/24/23 1135	Company: AECOM		
Relinquished by: <i>Alex Edwards</i>		Date/Time: 4/24/23 1201	Company: AECOM	Received by: <i>[Signature]</i>		Date/Time: 4/26/23	Company: 1030		
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:					

Ver: 01/16/2019

0.6/1.2

Eurofins FGS, Seattle
5755 6th Street East
Tacoma, WA 98424

Chain of Custody Record

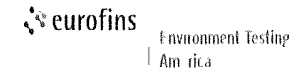


Client Information		Sampler: <i>Kaitlin Osterman</i>	Lab PM: Efalne Walker	Carrier Tracking No(s): FedEx	COC No: 2304W4AFEAO8						
Client Contact:		Phone: <i>614-558-6231</i>	E-Mail: <i>M.Elaine.Walker@EurofinsET.com</i>	State of Origin: Hawaii	Page: Page 1 of 1						
Company: AECOM		PWSID:		Job #:							
Address: 1001 Bishop St. Suite 1600		Due Date Requested: see subcontract		Analysis Requested 801SC_DAL_GL_DS_2-(butoxyethoxy)-ethanol <i>KO</i> <i>4/24/23</i>							
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 #:		Preservation Codes:							
Project Name: CTO N6274223F0104		Project #: 60697810		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)							
Site: RHSF		SSOW#:		Other:							
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Soil, Dioxin/Foil, BT+Pipes, A-N)	Field Filtered Sample (Yes or No)	Preserved (Yes or No)	Total Number of Containers	Special Instructions/Note:		
AF-RHMW04-WGN01LF-2304W4		4/24/23	0930	G	W	N	N	X	3		
KO		4/24/23									
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 EQHS EDD.			Special Instructions/QC Requirements: DOD QSM project.						
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:					
Relinquished by: <i>Kaitlin Osterman</i>		Date/Time: <i>4/24/23 1135</i>		Company: AECOM		Received by: <i>Alex Edwards</i>		Date/Time: <i>4/24/23 1135</i>		Company: AECOM	
Relinquished by: <i>Alex Edwards</i>		Date/Time: <i>4/24/23 1200</i>		Company: AECOM		Received by:		Date/Time: <i>4/26/23</i>		Company: <i>1070</i>	
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 (°C) and Other Remarks: <i>0-6/1.7</i>							

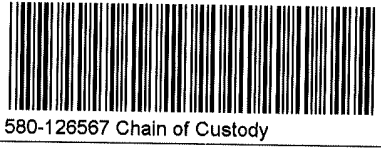
Ver: 01/16/2019

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

Chain of Custody Record



Client Information		Sampler <i>Zoe Diermer</i>	Lab PM: Elaine Walker	Carrier Tracking No(s) FedEx	COC No. 2304W4AFEAO6																												
Client Contact:		Phone <i>611 9453</i>	E-Mail M.Elaine.Walker@EurofinsET.com	State of Origin Hawaii	Page Page 1 of 1																												
Company AECOM		PWSID	Analysis Requested																														
Address 1001 Bishop St Suite 1600		Due Date Requested see subcontract	<table border="1"> <tr><td colspan="3">Field Filtered Sample (Yes or No)</td></tr> <tr><td colspan="3">Perform MS/MSD (Yes or No)</td></tr> <tr><td colspan="3">8015C_DAL_GL_DSr/2-(2-butoxyethoxy)-ethanol</td></tr> <tr><td colspan="3"><i>1/1/23</i></td></tr> </table>			Field Filtered Sample (Yes or No)			Perform MS/MSD (Yes or No)			8015C_DAL_GL_DSr/2-(2-butoxyethoxy)-ethanol			<i>1/1/23</i>																		
Field Filtered Sample (Yes or No)																																	
Perform MS/MSD (Yes or No)																																	
8015C_DAL_GL_DSr/2-(2-butoxyethoxy)-ethanol																																	
<i>1/1/23</i>																																	
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 #	<table border="1"> <tr><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 LDA</td><td>Z other (specify)</td></tr> <tr><td colspan="2">Other</td></tr> </table>			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 LDA	Z other (specify)	Other	
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 LDA	Z other (specify)																																
Other																																	
Project Name CTO N6274223F0104		Project # 60697810	<table border="1"> <tr><td colspan="2">Special Instructions/Note:</td></tr> <tr><td colspan="2"></td></tr> </table>			Special Instructions/Note:																											
Special Instructions/Note:																																	
Site RH5F		SSOW#	<table border="1"> <tr><td colspan="2">Sample Identification</td></tr> <tr><td>Sample Date</td><td>Sample Time</td><td>Sample Type (C=comp, G=grab)</td><td>Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)</td><td>Field Filtered Sample (Yes or No)</td><td>Perform MS/MSD (Yes or No)</td><td>8015C_DAL_GL_DSr/2-(2-butoxyethoxy)-ethanol</td><td>Total Number of containers</td></tr> <tr><td colspan="8">Preservation Code</td></tr> <tr><td>AF-RH5F16-WGN01LF-2304W4</td><td><i>4/24/23</i></td><td><i>1255</i></td><td>G</td><td>W</td><td>N</td><td>N</td><td>X</td><td>3</td></tr> </table>			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)	8015C_DAL_GL_DSr/2-(2-butoxyethoxy)-ethanol	Total Number of containers	Preservation Code								AF-RH5F16-WGN01LF-2304W4	<i>4/24/23</i>	<i>1255</i>	G	W	N	N	X	3	
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)	8015C_DAL_GL_DSr/2-(2-butoxyethoxy)-ethanol	Total Number of containers																										
Preservation Code																																	
AF-RH5F16-WGN01LF-2304W4	<i>4/24/23</i>	<i>1255</i>	G	W	N	N	X	3																									
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 EQIS EDD.		Special Instructions/QC Requirements DOD QSM project.																													
Empty Kit Relinquished by:		Date	Time	Method of Shipment:																													
Relinquished by: <i>Zoe Diermer</i>		Date/Time: <i>4/21/23 1401</i>	Company: AECOM	Received by: <i>Alex ...</i>		Date/Time: <i>4/20/23 1030</i>																											
Relinquished by: <i>Alex ...</i>		Date/Time: <i>4/21/23 141</i>	Company: <i>AECOM</i>	Received by: <i>[Signature]</i>		Date/Time: <i>4/20/23 1030</i>																											
Relinquished by:		Date/Time:	Company:	Received 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: <i>0.6/1.2</i>																															



1
2
3
4
5
6
7
8
9
10
11

Chain of Custody Record

Client Information		Sampler: <i>M. Wischo</i>		Lab PM: Elaine Walker		Carrier Tracking No(s): FedEx		COC No. 2304W4AFE05																										
Client Contact:		Phone: <i>224 508 9732</i>		E-Mail: M.Elaine.Walker@EurofinsET.com		State of Origin: Hawaii		Page: Page 1 of 1																										
Company: AECOM		PWSID:		Analysis Requested						Job #:																								
Address: 1001 Bishop St Suite 1600		Due Date Requested: see subcontract		<table border="1"> <tr> <td>Field Filtered Sample (Yes or No)</td> <td>Perform MS/MSD (Yes or No)</td> <td>8015C_DAL_GL_DS/2-(2-butoxyethoxy)-ethanol</td> <td rowspan="5"> <i>SP 6/4</i> <i>4/24/23</i> </td> <td rowspan="5"> <i>SP 6/4</i> <i>4/24/23</i> </td> <td rowspan="5"> <i>SP 6/4</i> <i>4/24/23</i> </td> <td rowspan="5"> <i>SP 6/4</i> <i>4/24/23</i> </td> <td rowspan="5"> <i>SP 6/4</i> <i>4/24/23</i> </td> <td rowspan="5"> <i>SP 6/4</i> <i>4/24/23</i> </td> <td rowspan="5"> <i>SP 6/4</i> <i>4/24/23</i> </td> <td rowspan="5"> <i>SP 6/4</i> <i>4/24/23</i> </td> </tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </table>						Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015C_DAL_GL_DS/2-(2-butoxyethoxy)-ethanol	<i>SP 6/4</i> <i>4/24/23</i>	<i>SP 6/4</i> <i>4/24/23</i>	<i>SP 6/4</i> <i>4/24/23</i>	<i>SP 6/4</i> <i>4/24/23</i>	<i>SP 6/4</i> <i>4/24/23</i>	<i>SP 6/4</i> <i>4/24/23</i>	<i>SP 6/4</i> <i>4/24/23</i>	<i>SP 6/4</i> <i>4/24/23</i>													Preservation Codes:	
Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015C_DAL_GL_DS/2-(2-butoxyethoxy)-ethanol	<i>SP 6/4</i> <i>4/24/23</i>							<i>SP 6/4</i> <i>4/24/23</i>	<i>SP 6/4</i> <i>4/24/23</i>	<i>SP 6/4</i> <i>4/24/23</i>									<i>SP 6/4</i> <i>4/24/23</i>	<i>SP 6/4</i> <i>4/24/23</i>	<i>SP 6/4</i> <i>4/24/23</i>	<i>SP 6/4</i> <i>4/24/23</i>										
City: Honolulu		TAT Requested (days): Rush - 5 Day		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No		A HCL		M Hexane																										
State Zip: Hawaii 96813		PO #:		WO #:		B NaOH		N None																										
Phone: 808-954-4512 / 770-331-0794		Project Name: CTO N6274223F0104		Project #: 60697810		C Zn Acetate		O AsNaO2																										
Email: Watson Tanji (watson.tanji@aecom.com) / Mark Kromis (mark.kromis@aecom.com)		Site: RHSF		SSOW#:		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:																										

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)	8015C_DAL_GL_DS/2-(2-butoxyethoxy)-ethanol	Total Number of Containers	Special Instructions/Note
AF-RHMW12A-WGN01LF-2304W4	4/24/23	1000	G	W	N	N	X	3	
AF RHMW12A-WGFD01LF-2304W4	4/24/23	1000	G	W	N	N	X	3	
<i>dn 4/24/23</i>									

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 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				

Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:	
Relinquished by: <i>Zoe Diermier</i>		Date/Time: <i>4/24/23 1200</i>		Company: AECOM		Received by: <i>Alex Edwards</i>	
Relinquished by: <i>Alex Edwards</i>		Date/Time: <i>4/24/23 1211</i>		Company: AECOM		Received by: <i>[Signature]</i>	
Relinquished by:		Date/Time:		Company:		Received by:	

Custody Seals Intact Custody Seal No Cooler Temperature(s) °C and Other Remarks.

06/102

Chain of Custody Record

Client Information			Sampler <i>Nate Hagsten</i>	Lab PM Elaine Walker	Carrier Tracking No(s) FedEx	COC No: 2304W4AFE09																																									
Client Contact			Phone <i>804-873-0525</i>	E-Mail M.Elaine.Walker@EurofinsET.com	State of Origin Hawaii	Page Page 1 of 1																																									
Company AECOM			PWSID	Analysis Requested				Job #																																							
Address 1001 Bishop St Suite 1600			Due Date Requested see subcontract	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td rowspan="7" style="writing-mode: vertical-rl; transform: rotate(180deg);"> Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) 8015C_DAL_GAL_DS/2-(2-butoxyethoxy)-ethanol </td> <td style="text-align: center;">Total Number of containers</td> <td rowspan="7" style="text-align: center; vertical-align: middle;"> Preservation Codes A HCL M Hexane B NaOH N None C Zn Acetale 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: </td> </tr> <tr><td style="text-align: center;">3</td></tr> </table>				Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) 8015C_DAL_GAL_DS/2-(2-butoxyethoxy)-ethanol	Total Number of containers	Preservation Codes A HCL M Hexane B NaOH N None C Zn Acetale 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:	3	City Honolulu	TAT Requested (days) Rush - 5 Day	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>Sample Identification</th> <th>Sample Date</th> <th>Sample Time</th> <th>Sample Type (C=Comp, G=grab)</th> <th>Matrix (W=Water, S=solid, O=waste/soil, BT=Tissue, A=Air)</th> <th>Field Filtered Sample (Yes or No)</th> <th>Perform MS/MSD (Yes or No)</th> <th>8015C_DAL_GAL_DS/2-(2-butoxyethoxy)-ethanol</th> <th>Total Number of containers</th> <th>Special Instructions/Note</th> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>AF-RHMMW06-WGN01LF-2304W4</td> <td><i>4/24/23</i></td> <td><i>1045</i></td> <td>G</td> <td>W</td> <td>N</td> <td>N</td> <td>X</td> <td style="text-align: center;">3</td> <td style="text-align: center; vertical-align: bottom;"><i>NK</i> <i>4/24/23</i></td> </tr> </table>			Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=Water, S=solid, O=waste/soil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015C_DAL_GAL_DS/2-(2-butoxyethoxy)-ethanol	Total Number of containers	Special Instructions/Note											AF-RHMMW06-WGN01LF-2304W4	<i>4/24/23</i>	<i>1045</i>	G	W	N	N	X	3	<i>NK</i> <i>4/24/23</i>	Compliance Project. <input type="checkbox"/> Yes <input type="checkbox"/> No
Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) 8015C_DAL_GAL_DS/2-(2-butoxyethoxy)-ethanol	Total Number of containers	Preservation Codes A HCL M Hexane B NaOH N None C Zn Acetale 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:																																													
	3																																														
	Sample Identification		Sample Date						Sample Time		Sample Type (C=Comp, G=grab)	Matrix (W=Water, S=solid, O=waste/soil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015C_DAL_GAL_DS/2-(2-butoxyethoxy)-ethanol	Total Number of containers	Special Instructions/Note																														
	AF-RHMMW06-WGN01LF-2304W4		<i>4/24/23</i>						<i>1045</i>		G	W	N	N	X	3	<i>NK</i> <i>4/24/23</i>																														
	City Honolulu								PO #					Preservation Codes																																	
	State, Zip Hawaii 96813			WO #				Other:																																							
Phone 808-954-4512 / 770-331-0794			Project # 60697810																																												
Email Watson Tanji (watson.tanji@aecom.com)/ Mark Kromis (mark.kromis@aecom.com)			SSOW#																																												
Project Name CTO N6274223F0104																																															
Site RHSF																																															

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 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: <i>[Signature]</i>	Date/Time: <i>4/24/23 1135</i>	Company: AECOM	Received by: <i>[Signature]</i>	Date/Time: <i>4/24/23 1135</i>	Company: AECOM
Relinquished by: <i>Alcy Edwards</i>	Date/Time: <i>4/24/23 1201</i>	Company: AECOM	Received by: <i>[Signature]</i>	Date/Time: <i>4/26/23</i>	Company: 1030
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:

Custody Seals Intact. Yes No

Custody Seal No: _____ Cooler Temperature(s) °C and Other Remarks: _____

06/1.2

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

Chain of Custody Record

eurofins | Environment Testing
 America

Client Information		Sampler: <i>Kaitlin Osterman</i>		Lab PM: Elaine Walker		Carrier Tracking No(s) FedEx		COC No: 2304W4AFE08																																														
Client Contact:		Phone <i>614-556-6231</i>		E-Mail: M.Elaine.Walker@EurofinsET.com		State of Origin: Hawaii		Page Page 1 of 1																																														
Company AECOM		PWSID:		Analysis Requested						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="8" rowspan="5" style="text-align: center; vertical-align: middle;"> <i>ko</i> <i>4/24/23</i> </td> <td rowspan="5" style="writing-mode: vertical-rl; transform: rotate(180deg);">Total Number of containers</td> </tr> <tr><td colspan="8">8015C_DAI_GL_DS/2-(2-butoxyethoxy)-ethanol</td></tr> <tr><td colspan="8"></td></tr> <tr><td colspan="8"></td></tr> <tr><td colspan="8"></td></tr> </table>						Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	<i>ko</i> <i>4/24/23</i>								Total Number of containers	8015C_DAI_GL_DS/2-(2-butoxyethoxy)-ethanol																																Preservation Codes	
Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	<i>ko</i> <i>4/24/23</i>																			Total Number of containers																																	
																						8015C_DAI_GL_DS/2-(2-butoxyethoxy)-ethanol																																
City Honolulu		TAT Requested (days) Rush - 5 Day		A HCL		M Hexane																																																
State Zip Hawaii 96813		Compliance Project. <input type="checkbox"/> Yes <input type="checkbox"/> No		B NaOH		N None																																																
Phone 808-954-4512 / 770-331-0794		PO #		C Zn Acetate		O AsNaO2																																																
Email: Watson Tanji (watson.tanji@aecom.com)/ Mark Kromis (mark.kromis@aecom.com)		WO #		D Nitric Acid		P Na2O4S																																																
Project Name CTO N6274223F0104		Project # 60697810		E NaHSO4		Q Na2SO3																																																
Site: RHSF		SSOW#		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 EDTA		Z other (specify)																																																
				Other:																																																		

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Analysis Requested								Total Number of containers	Special Instructions/Note:							
AF-RHMW04-WGN01LF-2304W4	<i>4/24/23</i>	<i>0930</i>	G	W	N	N	X															3	
<i>ko</i> <i>4/24/23</i>																							

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 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 EQHS EDD.											
Empty Kit Relinquished by:												Method of Shipment:											
Relinquished by: <i>Kaitlin Osterman</i>				Date/Time: <i>4/24/23 1135</i>				Company: AECOM				Received by: <i>Alex Edwards</i>				Date/Time: <i>4/24/23 1135</i>				Company: <i>AECOM</i>			
Relinquished by: <i>Alex Edwards</i>				Date/Time: <i>4/29/23 1205</i>				Company: AECOM				Received by: <i>[Signature]</i>				Date/Time: <i>4/26/23</i>				Company: <i>1070</i>			
Relinquished by:				Date/Time:				Company:				Received by:				Date/Time:				Company:			
Custody Seals Intact						Custody Seal No						Cooler Temperature(s) °C and Other Remarks: <i>06/1-2</i>											
<input type="checkbox"/> Yes <input type="checkbox"/> No																							

Ver: 01/16/2019



Login Sample Receipt Checklist

Client: AECOM

Job Number: 580-126567-1

Login Number: 126567

List Number: 2

Creator: Johnson, Corey M

List Source: Eurofins Savannah

List Creation: 04/28/23 12:15 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	

