



ANALYTICAL REPORT

PREPARED FOR

Attn: Terri Choy
AECOM
1001 Bishop Street
Honolulu, Hawaii 96813
Generated 4/12/2023 4:31:34 PM

JOB DESCRIPTION

Red Hill - AFFF Assessment Sampling

JOB NUMBER

580-125692-1

Job Notes

This report is issued solely for the use of the person or company to whom it is addressed. Any use, copying or disclosure other than by the intended recipient is unauthorized. If you have received this report in error, please notify the sender and destroy this report immediately. This report shall not be reproduced except in full, without prior express written approval by the laboratory.

The data in the report relate to the field sample(s) as received by the laboratory and associated QC. All results have been reviewed and have been found to be compliant with laboratory and accreditation requirements, with the exception of the noted deviation(s). For questions, please contact the Project Manager.

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

Authorization



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Authorized for release by
Marie Walker, Senior Project Manager
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(253)248-4972



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Case Narrative

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

Job ID: 580-125692-1

Job ID: 580-125692-1

Laboratory: Eurofins Seattle

Narrative

CASE NARRATIVE

Client: AECOM
Project: Red Hill - AFFF Assessment Sampling
Report Number: 580-125692-1

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 4/5/2023 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 1.5° 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-2303W4 (580-125692-1), AF-RHMW17D-WQFB01-2303W4 (580-125692-2), AF-RHMW03-WGN01LF-2303W4 (580-125692-3), AF-RHMW02-WGN01LF-2303W4 (580-125692-4) and AF-RHMW17-WGN01LF-2303W4 (580-125692-5) were analyzed for glycols in accordance with EPA SW-846 Method 8015B - DAI. The samples were analyzed on 04/12/2023.

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

Definitions/Glossary

Client: AECOM

Job ID: 580-125692-1

Project/Site: Red Hill - AFFF Assessment Sampling

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
M	Manual integrated compound.
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: 580-125692-1

Client Sample ID: AF-RHMW17D-WGN01LF-2303W4

Lab Sample ID: 580-125692-1

Date Collected: 03/31/23 10:35

Matrix: Water

Date Received: 04/05/23 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 M	5.0	1.1	mg/L			04/12/23 02:11	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: 580-125692-1

Client Sample ID: AF-RHMW17D-WQFB01-2303W4

Lab Sample ID: 580-125692-2

Date Collected: 03/31/23 09:35

Matrix: Water

Date Received: 04/05/23 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			04/12/23 03:21	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: 580-125692-1

Client Sample ID: AF-RHMW03-WGN01LF-2303W4

Lab Sample ID: 580-125692-3

Date Collected: 03/30/23 13:25

Matrix: Water

Date Received: 04/05/23 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			04/12/23 03:44	1

- 1
- 2
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- 7
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- 10
- 11

Client Sample Results

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

Job ID: 580-125692-1

Client Sample ID: AF-RHMW02-WGN01LF-2303W4

Lab Sample ID: 580-125692-4

Date Collected: 03/30/23 11:15

Matrix: Water

Date Received: 04/05/23 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 M	5.0	1.1	mg/L			04/12/23 04:07	1

- 1
- 2
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- 7
- 8
- 9
- 10
- 11

Client Sample Results

Client: AECOM

Job ID: 580-125692-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW17-WGN01LF-2303W4

Lab Sample ID: 580-125692-5

Date Collected: 03/31/23 12:20

Matrix: Water

Date Received: 04/05/23 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 M	5.0	1.1	mg/L			04/12/23 04:30	1

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

QC Sample Results

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

Job ID: 580-125692-1

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

Lab Sample ID: MB 680-772684/9
Matrix: Water
Analysis Batch: 772684

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			04/11/23 16:23	1

Lab Sample ID: LCS 680-772684/5
Matrix: Water
Analysis Batch: 772684

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 680-772684/6
Matrix: Water
Analysis Batch: 772684

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: 580-125692-1 MS
Matrix: Water
Analysis Batch: 772684

Client Sample ID: AF-RHMW17D-WGN01LF-2303W4
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 M	20.0	19.1		mg/L		96	50 - 150

Lab Sample ID: 580-125692-1 MSD
Matrix: Water
Analysis Batch: 772684

Client Sample ID: AF-RHMW17D-WGN01LF-2303W4
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 M	20.0	18.3		mg/L		91	50 - 150	4	50

Lab Chronicle

Client: AECOM

Job ID: 580-125692-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW17D-WGN01LF-2303W4

Lab Sample ID: 580-125692-1

Date Collected: 03/31/23 10:35

Matrix: Water

Date Received: 04/05/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015C GLY		1	772684	JCK	EET SAV	04/12/23 02:11

Client Sample ID: AF-RHMW17D-WQFB01-2303W4

Lab Sample ID: 580-125692-2

Date Collected: 03/31/23 09:35

Matrix: Water

Date Received: 04/05/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015C GLY		1	772684	JCK	EET SAV	04/12/23 03:21

Client Sample ID: AF-RHMW03-WGN01LF-2303W4

Lab Sample ID: 580-125692-3

Date Collected: 03/30/23 13:25

Matrix: Water

Date Received: 04/05/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015C GLY		1	772684	JCK	EET SAV	04/12/23 03:44

Client Sample ID: AF-RHMW02-WGN01LF-2303W4

Lab Sample ID: 580-125692-4

Date Collected: 03/30/23 11:15

Matrix: Water

Date Received: 04/05/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015C GLY		1	772684	JCK	EET SAV	04/12/23 04:07

Client Sample ID: AF-RHMW17-WGN01LF-2303W4

Lab Sample ID: 580-125692-5

Date Collected: 03/31/23 12:20

Matrix: Water

Date Received: 04/05/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015C GLY		1	772684	JCK	EET SAV	04/12/23 04:30

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: 580-125692-1

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: 580-125692-1

Project/Site: Red Hill - AFFF Assessment Sampling

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-125692-1	AF-RHMW17D-WGN01LF-2303W4	Water	03/31/23 10:35	04/05/23 10:30
580-125692-2	AF-RHMW17D-WQFB01-2303W4	Water	03/31/23 09:35	04/05/23 10:30
580-125692-3	AF-RHMW03-WGN01LF-2303W4	Water	03/30/23 13:25	04/05/23 10:30
580-125692-4	AF-RHMW02-WGN01LF-2303W4	Water	03/30/23 11:15	04/05/23 10:30
580-125692-5	AF-RHMW17-WGN01LF-2303W4	Water	03/31/23 12:20	04/05/23 10:30

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Chain of Custody Record

Client Information			Sampler: TESSA MURPHY			Lab PM: Elaine Walker			Carrier Tracking No(s): FedEx			COC No: 2303W4AFE11					
Client Contact:			Phone: 978-382-5207			E-Mail: M.Elaine.Walker@EurofinsET.com			State of Origin: Hawaii			Page: Page 1 of 1					
Company: AECOM						FWSID:						Analysis Requested					
Address: 1001 Bishop St. Suite 1600						Due Date Requested: see subcontract						Preservation Codes:					
City: Honolulu						TAT Requested (days): Rush - ASAP						A - HCL M - Hexane					
State, Zip: Hawaii 96813						Compliance Project: Δ Yes Δ 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 - EDA Z - other (specify)					
												Other:					
Sample Identification		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=oils/muls, BT=Baseline, Ar=Air)	Field Filtered Sample (Yes or No)	Parent Matrix (Yes or No)						Total Number of Containers	Special Instructions/Note:			
				Preservation Code:													
AF-RHMW17D-WGN01LF-2303W4		3/31/23	1035	G	W	N	N	X						3			
AF-RHMW17D-WQFB01-2303W4		3/31/23	0935	G	W	N	N	X						3			
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 EQuIS EDD.						Special Instructions/QC Requirements: DOD QSM project.					
Empty Kit Relinquished by:						Date:			Time:			Method of Shipment:					
Relinquished by: <i>TESSA MURPHY</i>		Date/Time: 3/31/23 1326		Company: AECOM		Received by: <i>James Mason</i>		Date/Time: 3/31/23 1326		Company: AECOM							
Relinquished by: <i>James Mason</i>		Date/Time: 4/3/23 1345		Company: AECOM		Received by: <i>JM</i>		Date/Time: 4-5-23 1030		Company: <i>JM</i>							
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:							
Custody Seals Intact: Δ Yes Δ No		Custody Seal No.:				Cooler Temperature(s) °C and Other Remarks: 1.5/15											



Chain of Custody Record

Client Information		Sampler: <i>Andy Young</i>		Lab PM: Elaine Walker		Carrier Tracking No(s): FedEx		COC No: 2303W4AFEA02																																																																																																																																					
Client Contact:		Phone: <i>402-871-5712</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="2">City: Honolulu</td> <td colspan="2">TAT Requested (days): Rush - ASAP</td> <td colspan="2" rowspan="5"> Field Filtered Samples (Yes or No) 801SC_DAL_GL_D8r 2-(2-butoxyethoxy)ethanol </td> <td colspan="2" rowspan="5"> Total Number of Containers 3 </td> </tr> <tr> <td colspan="2">State, Zip: Hawaii 96813</td> <td colspan="2">Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No</td> </tr> <tr> <td colspan="2">Phone: 808-954-4512 / 770-331-0794</td> <td colspan="2">PO #:</td> </tr> <tr> <td colspan="2">Email: Watson Tanji (watson.tanji@aecom.com) / Mark Kromis (mark.kromis@aecom.com)</td> <td colspan="2">WO #:</td> </tr> <tr> <td colspan="2">Project Name: CTO N6274223FD104</td> <td colspan="2">Project #: 60697810</td> </tr> <tr> <td colspan="2">Site: RHSF</td> <td colspan="2">SSOW#:</td> <td colspan="6"> 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: </td> </tr> <tr> <td colspan="2">Sample Identification</td> <td colspan="2">Sample Date</td> <td colspan="2">Sample Time</td> <td colspan="2">Sample Type (C=comp, G=grab)</td> <td colspan="2">Matrix (Water, Soild, Overstst/oil, BT+Tissue, ARA)</td> <td colspan="2">Preservation Code:</td> <td colspan="2">Special Instructions/Note:</td> </tr> <tr> <td colspan="2">AF-RHMW03-WGN01LF-2303W4</td> <td colspan="2"><i>3/30/23</i></td> <td colspan="2"><i>1325</i></td> <td colspan="2">G</td> <td colspan="2">W</td> <td colspan="2">N N X</td> <td colspan="2"></td> </tr> <tr> <td colspan="2">Possible Hazard Identification</td> <td colspan="2"> <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="2">Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</td> <td colspan="2"> <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months </td> <td colspan="2">Deliverable Requested: I, II, III, IV, Other (specify)</td> <td colspan="2">Prelim data (Level 1or2)-see TAT above. DoD Stage 4 report standard TAT AECOM EQUIS EDD</td> <td colspan="2">Special Instructions/QC Requirements: DOD QSM project.</td> </tr> <tr> <td colspan="2">Empty Kit Relinquished by:</td> <td colspan="2">Date:</td> <td colspan="2">Time:</td> <td colspan="2">Method of Shipment:</td> <td colspan="2">Relinquished by: <i>Andy Young</i></td> <td colspan="2">Date/Time: <i>3/30/23 1530</i></td> <td colspan="2">Company: AECOM</td> </tr> <tr> <td colspan="2">Relinquished by: <i>James Mason</i></td> <td colspan="2">Date/Time: <i>4/3/23 1345</i></td> <td colspan="2">Company: AECOM</td> <td colspan="2">Received by: <i>James Mason</i></td> <td colspan="2">Date/Time: <i>3/30/23 1530</i></td> <td colspan="2">Company: AECOM</td> <td colspan="2">Received by: <i>AM</i></td> </tr> <tr> <td colspan="2">Relinquished by:</td> <td colspan="2">Date/Time:</td> <td colspan="2">Company:</td> <td colspan="2">Received by:</td> <td colspan="2">Date/Time:</td> <td colspan="2">Company:</td> <td colspan="2">Received by:</td> </tr> <tr> <td colspan="2">Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No</td> <td colspan="2">Custody Seal No.:</td> <td colspan="2">Cooler Temperature(s) °C and Other Remarks: <i>4.5/4.5</i></td> <td colspan="2"></td> <td colspan="2"></td> <td colspan="2"></td> <td colspan="2"></td> </tr> </table>						City: Honolulu		TAT Requested (days): Rush - ASAP		Field Filtered Samples (Yes or No) 801SC_DAL_GL_D8r 2-(2-butoxyethoxy)ethanol		Total Number of Containers 3		State, Zip: Hawaii 96813		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No		Phone: 808-954-4512 / 770-331-0794		PO #:		Email: Watson Tanji (watson.tanji@aecom.com) / Mark Kromis (mark.kromis@aecom.com)		WO #:		Project Name: CTO N6274223FD104		Project #: 60697810		Site: RHSF		SSOW#:		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:						Sample Identification		Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (Water, Soild, Overstst/oil, BT+Tissue, ARA)		Preservation Code:		Special Instructions/Note:		AF-RHMW03-WGN01LF-2303W4		<i>3/30/23</i>		<i>1325</i>		G		W		N N X				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>Andy Young</i>		Date/Time: <i>3/30/23 1530</i>		Company: AECOM		Relinquished by: <i>James Mason</i>		Date/Time: <i>4/3/23 1345</i>		Company: AECOM		Received by: <i>James Mason</i>		Date/Time: <i>3/30/23 1530</i>		Company: AECOM		Received by: <i>AM</i>		Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:		Received by:		Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: <i>4.5/4.5</i>									
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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.																																																																																																																																	
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Eurofins FGS, Seattle
 5755 8th Street East
 Tacoma, WA 98424


Chain of Custody Record

eurofins Environment Testing
 America

Client Information Client Contact:		Sampler: <i>Andy Young</i> Phone: <i>402-871-5712</i>		Lab PM: Elaine Walker E-Mail: <i>M.Elaine.Walker@EurofinsET.com</i>		Carrier Tracking No(s): FedEx State of Origin: Hawaii		COC No: 2303W4AFEA01 Page: Page 1 of 1			
Company: AECOM 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)				PWSID: Due Date Requested: see subcontract TAT Requested (days): Rush - ASAP Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No PO #: WO #: Project #: 60697810 SSOw #:		Analysis Requested Matrix: 8015C_DAL_GL_GL_DSI 2-(2-butoxycarboxy)-ethanol Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 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) Other:	
Sample Identification Sample Date: 3/30/23 Sample Time: 1115 Sample Type (C=Comp, G=grab): G Matrix (W=water, S=solid, O=water/soil, BT=Threat, AM=Air)		Preservation Code: A N N X		Special Instructions/Note: AF-RHMW02-WGN01LF-2303W4 3/30/23							
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											
Deliverable Requested: I, II, III, IV, Other (specify)					Prelim data (Level 1or2)=see TAT above. DoD Stage 4 report standard TAT. AECOM EQUUS EDD.						
Empty Kit Relinquished by:					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: <i>Andy Young</i>		Date/Time: <i>3/30/23 1530</i>		Company: AECOM		Received by: <i>James Mason</i>		Date/Time: <i>3/30/23 1530</i>		Company: AECOM	
Relinquished by: <i>James Mason</i>		Date/Time: <i>4/3/23 1345</i>		Company: AECOM		Received by: <i>[Signature]</i>		Date/Time: <i>4-5-23 1030</i>		Company: <i>[Signature]</i>	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: <i>1.5/1.5</i>							

Ver: 01/16/2019

Chain of Custody Record

Client Information		Sampler: TESSA M.V.G.P.H.	Lab PM: Elaine Walker	Carrier Tracking No(s): FedEX	COC No: 2303W4AFE11		
Client Contact:		Phone: 978-382-5207	E-Mail: M.Elaine.Walker@EurofinsET.com	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:			
City: Honolulu		TAT Requested (days): Rush - ASAP		Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - DI Water W - pH 4-5 X - EDTA Y - EDA Z - other (specify)			
State, Zip: Hawaii 96813		Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Total Number of Containers: 3			
Phone: 808-954-4512 / 770-331-0794		PO #:		Special Instructions/Note:			
Email: Watson.Tanji@aeocom.com / Mark.Kromis@aeocom.com		WO #:		 580-125692 Chain of Custody			
Project Name: CTO N627423F0104		Project #: 60697810					
Site: RHSF		SSOW#:					
Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=swastich, B=BreTissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	15C_DAI_GL_DS/2-butylethoxy-ethanol
AF-RHMW17D-WGN01F-2303W4	3/31/23	1035	G	W	N	N	X
AF-RHMW17D-WQFB01-2303W4	3/31/23	0935	G	W	N	N	X
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							
Deliverable Requested I, II, III, IV Other (specify) Prelim data (Level 1 or 2)-see TAT above DoD Stage 4. report standard TAT. AECOM.EQUIS.FDD.							
Empty Kit Relinquished by Relinquished by: TESSA M.V.G.P.H. Date: 3/31/23 1326 Company: AECOM							
Relinquished by: James Mason Date: 4/5/23 315 Company: AECOM							
Relinquished by: James Mason Date: 4/5/23 1030 Company: M							
Custody Seals Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No							
Cooler Temperature(s) °C and Other Remarks: 1.5/1.5							

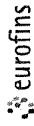


Chain of Custody Record

Client Information		Sampler: <i>Andy Young</i>		Lab PM: Elaine Walker	Carrier Tracking No(s): FedEx	COC No: 2303W4AFE02					
Client Contact:		Phone: 402-871-572		E-Mail: M.Elaine.Walker@EurofinsET.com	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							
City: Honolulu		TAT Requested (days): Rush - ASAP		8015C_DAI_GL_DS/2-(2-butylethoxy)-ethanol							
State Zip: Hawaii 96813		Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/> A							
Phone: 808-954-4512 / 770-331-0794		PO #: _____		Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> N							
Email: Watson Tanji (watson.tanji@aecom.com) / Mark Kromis (mark.kromis@aecom.com)		WO #: _____		Total Number of containers <input checked="" type="checkbox"/> 3							
Project Name: CTO N6274223F0104		Project #: 60697810		Special Instructions/Note:							
Site: RH5F		SSOW#: _____		Preservation Codes:							
Sample Identification		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Matrix (Water, Solid, Sewer, etc.)		Preservation Code	
AF-RHMW03-WGN01LF-2303W4		3/30/23		1325		G		W		W	
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 checked="" type="checkbox"/> Radiological		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)					
Deliverable Requested I, II, III, IV Other (specify)		Empty Kit Relinquished by		Date		Time		Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			
Relinquished by <i>Andy Young</i>		Date/Time: 3/30/23		1530		Company: AECOM		Received by <i>Jones Mas</i>			
Relinquished by <i>Jones Mas</i>		Date/Time: 4/5/23		1030		Company: _____		Received by <i>[Signature]</i>			
Relinquished by		Date/Time:				Company:		Received by			
Custody Seals Intact: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks: <i>4.5/4.8</i>							



Chain of Custody Record



Client Information		Sampler: Elaine Walker		Carrier Tracking No(s): 2303W4AFEAO1	
Client Contact:		Lab PII: Elaine Walker		FedEx:	
Company: AECOM		E-Mail: Elaine.Walker@EurofinsET.com		State of Origin: Hawaii	
Address: 1001 Bishop St. Suite 1600		Phone: 206 575 572		Page 1 of 1	
City: Honolulu		PWSID:		Job #:	
State: Zn		Due Date Requested: see subcontract		Analysis Requested:	
Hawaii 96813		TAT Requested (days):		8015C_DAL_GL_DS/2-(2-butoxyethoxy)-ethanol	
Phone: 808-954-4512 / 770-331-0794		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No		Perform MS/MSD (Yes or No):	
Email: Watson.Tanji@aeom.com / Mark.Kromis@aeom.com		Rush - ASAP		Field Filtered Sample (Yes or No):	
Project Name: CTO N6274223F0104		PO #:		Total Number of Containers: 3	
Site: RHSE		WO #:		Special Instructions/Note:	
Project #:		Sample Date		Preservation Codes:	
SSOW#:		Sample Time		M Hexane	
AF-RHMMW02-WGN01F-2303W4		115		A HCL	
		G		B - NaOH	
				C - Zn Acetate	
				D Nitric Acid	
				E NaHSO4	
				F - MeOH	
				G Amichlor	
				H - Ascorbic Acid	
				I - Ice	
				J - DI Water	
				K EDTA	
				L EDA	
				Other	
				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)	

Sample Identification		Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=other)		Preservation Code:	
AF-RHMMW02-WGN01F-2303W4		3-23		115		G		W		A	
										X	
										N	
										X	

Possible Hazard Identification		<input type="checkbox"/> Non-Hazard		<input type="checkbox"/> Flammable		<input type="checkbox"/> Skin Irritant		<input type="checkbox"/> Poison B		<input type="checkbox"/> Unknown		<input type="checkbox"/> Radiological	
Deliverable Requested I II III IV Other (specify)													
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:		Received by:		Date/Time:		Company:	
Relinquished by: Tracy Young		3/23/23		15:00		FedEx		D. Walker		3-23-23		AECOM	
Relinquished by: J. Watson		4-2-23		10:30		FedEx		D. Walker		4-5-23		AECOM	
Relinquished by:													
Custody Seal Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks: 1.5/1.5									



Chain of Custody Record

Client Information		Sampler: TESSA MURPHY		Lab PM: Elaine Walker		Carrier Tracking No(s): 2303W4FEA10	
Client Contact:		Phone: 976-582-5209		E-Mail: M.Elaine.Walker@EurofinsET.com		Page: Page 1 of 1	
Company: AECOM		Address: 1001 Bishop St. Suite 1600		City: Honolulu		State of Origin: Hawaii	
City: Honolulu		State, Zip: Hawaii 96813		Phone: 808-954-4512 / 770-331-0794		Job #:	
Email: Watson.Tanji@aecom.com / Mark.Kromis@aecom.com		Project #: 60697810		SSOW#:		Preservation Codes: M - Hexane 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:	
Site: RHSF		Due Date Requested: see subcontract		Field Filtered Sample (Yes or No)		Total Number of Containers	
TAT Requested (days): Rush - ASAP		Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Perform MS/MSD (Yes or No)		Special Instructions/Note:	
Sample Date: 3/31/23		Sample Time: 1220		Matrix: W		<input checked="" type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	
Sample Type: G		Sample Preservation Code: G		Prelim data (Level 1 or 2) - see TAT above. DoD Stage 4		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
Sample Matrix: Water		Sample Date: 3/31/23		Date: 3/31/23		Special Instructions/QC Requirements: DOD QSM project	
Sample Matrix: Water		Sample Date: 3/31/23		Date: 3/31/23		Method of Shipment:	
Sample Matrix: Water		Sample Date: 3/31/23		Date: 3/31/23		Received by: Jess Murphy	
Sample Matrix: Water		Sample Date: 3/31/23		Date: 3/31/23		Received by: Jess Murphy	
Sample Matrix: Water		Sample Date: 3/31/23		Date: 3/31/23		Received by: Jess Murphy	
Sample Matrix: Water		Sample Date: 3/31/23		Date: 3/31/23		Cooler Temperature(s) °C and Other Remarks: 0.5/1.5	




Eurofins Savannah Triage Checklist

- Date 4/5/23
- Time 1030
- Checked By _____
- Number of Coolers 1
- Cooler Type Hard Styrofoam Box
- Ice Type Wet Dry GelPack None Other _____
- Received Via Fed-Ex 10) UPS () Bus
Client Drop Off US Mail Courier
BlueStreak Dash Other
- Courier Tracking Number _____
- Client AFCON
- Thermometer ID CUIR-32
- Uncorrected Cooler Temps (°C) 1.5
- Correction Factor 0.0
- Corrected Cooler Temps (°C) 1.5
- Other/ Comments

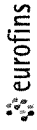
- Foreign soil – Yes / No

Chain of Custody Record

Client Information		Sampler: TESSA M. MCFAY	Lab P/N: Elaine Walker	Carrier Tracking No(s): FedEx	COC No: 2303W4FEA11				
Client Contact:		Phone: 973-382-5209	E-Mail: M.Elaine.Walker@EurofinsET.com	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					
City: Honolulu		TAT Requested (days): Rush - ASAP		Total Number of Containers: _____					
State Zip: Hawaii 96813		Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Preservation Codes: M - Hexane 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: _____					
Phone: 808-954-4512 / 770-331-0794		PO #: _____		Special Instructions/Note: _____					
Email: Watson.Tanji@aecom.com / Mark.Kromis@aecom.com		WO #: _____		Barcode: 					
Project Name: CTO N6274223F0104		Project #: 60697810		580-125692 Chain of Custody					
Site: RHSF		SSOW#: _____		_____					
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=water/soil, BFT=biobar, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	15C_DAL_GL_D5/2-(2-butoxyethoxy)-ethanol	15C_DAL_GL_D5/2-(2-butoxyethoxy)-ethanol	15C_DAL_GL_D5/2-(2-butoxyethoxy)-ethanol
AF-RHMW17D-WGN01LF-2303W4	3/3/23	1035	G	W	N	N	X	X	3
AF-RHMW17D-WQFB01-2303W4	3/3/23	0935	G	W	N	N	X	X	3
<p>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</p> <p>Deliverable Requested I, II, III IV Other (specify) _____ Prelim data (Level 1 or 2) - see TAT above DoD Stage 4 report standard TAT - AECOM EQULS EDD.</p> <p>Empty Kit Relinquished by _____ Date _____ Time _____ Relinquished by RODNEY TESSA M. MCFAY Date/Time: 3/3/23 1326 Company: AECOM Relinquished by JAMES YASUN Date/Time: 4-5-23 1030 Company: AECOM Relinquished by _____ Date/Time: _____ Company: _____</p> <p>Custody Seals Intact: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Cooler Temperature(s) °C and Other Remarks: 1.5/1.5</p>									



Chain of Custody Record



Client Information		Lab PM: Elaine Walker	Carrier Tracking No(s): 2303W4FEA02
Client Contact: AECOM		E-Mail: M.Elaine.Walker@EurofinsET.com	Page: Page 1 of 1
Address: 1001 Bishop St. Suite 1600		State of Origin: Hawaii	Job #:
City: Honolulu		Analysis Requested	
State Zip: Hawaii 96813			
Phone: 808-954-4512 / 770-331-0794			
Email: Watson.Tanji@aeocom.com / Mark.Kromis@aeocom.com			
Project Name: CTO N6274223F0104			
Site: RHFS		Preservation Codes: M - Hexane 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 - EDTA Other	
Sample Identification	AF-RHFW03-WGN01F-2303W4	8015C_DAI_GL_D5/2-(2-butoxyethoxy)-ethanol	Special Instructions/Note:
Sample Date	3/30/23	Field Filtered Sample (Yes or No)	Total Number of Containers
Sample Time	1305	Perform MS/MSD (Yes or No)	
Sample Type	G	Matrix (Water Based or Organic)	Preservation Codes: M - Hexane 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 - EDTA Other
Sample Date	3/30/23	Preservation Code: W	
Due Date Requested see subcontract		8015C_DAI_GL_D5/2-(2-butoxyethoxy)-ethanol	
TAT Requested (days): Rush - ASAP		8015C_DAI_GL_D5/2-(2-butoxyethoxy)-ethanol	
Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		8015C_DAI_GL_D5/2-(2-butoxyethoxy)-ethanol	
PO #:		8015C_DAI_GL_D5/2-(2-butoxyethoxy)-ethanol	
W/O #:		8015C_DAI_GL_D5/2-(2-butoxyethoxy)-ethanol	
Project #:		8015C_DAI_GL_D5/2-(2-butoxyethoxy)-ethanol	
SSOW#:		8015C_DAI_GL_D5/2-(2-butoxyethoxy)-ethanol	
Possible Hazard Identification		8015C_DAI_GL_D5/2-(2-butoxyethoxy)-ethanol	
<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		8015C_DAI_GL_D5/2-(2-butoxyethoxy)-ethanol	
Deliverable Requested I, II, III, IV Other (specify)		8015C_DAI_GL_D5/2-(2-butoxyethoxy)-ethanol	
Empty Kit Relinquished by		8015C_DAI_GL_D5/2-(2-butoxyethoxy)-ethanol	
Relinquished by: Andrew Mason		8015C_DAI_GL_D5/2-(2-butoxyethoxy)-ethanol	
Relinquished by: Andrew Mason		8015C_DAI_GL_D5/2-(2-butoxyethoxy)-ethanol	
Relinquished by:		8015C_DAI_GL_D5/2-(2-butoxyethoxy)-ethanol	
Custody Seals Intact: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		8015C_DAI_GL_D5/2-(2-butoxyethoxy)-ethanol	
Custody Seal No.		8015C_DAI_GL_D5/2-(2-butoxyethoxy)-ethanol	
Relinquished by: Andrew Mason		8015C_DAI_GL_D5/2-(2-butoxyethoxy)-ethanol	
Relinquished by: Andrew Mason		8015C_DAI_GL_D5/2-(2-butoxyethoxy)-ethanol	
Relinquished by:		8015C_DAI_GL_D5/2-(2-butoxyethoxy)-ethanol	
Date/Time: 3/30/23 1500		Date/Time: 3/30/23 1500	
Date/Time: 3/30/23 1500		Date/Time: 3/30/23 1500	
Date/Time:		Date/Time:	
Company: AECOM		Company: AECOM	
Company: AECOM		Company: AECOM	
Company:		Company:	
Cooler Temperature(s) °C and Other Remarks: 4.5/15		Cooler Temperature(s) °C and Other Remarks: 4.5/15	
Method of Shipment:		Method of Shipment:	
Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months		Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)			
Special Instructions/QC Requirements DOD QSM project			



Chain of Custody Record

Client Information		Sampler: <i>Andrew Walker</i>		Lab PM: Elaine Walker		Carrier Tracking No(s): FedEx		COC No: 2303W4AFEA01	
Client Contact:		Phone: <i>425 575 572</i>		E-Mail: M.Elaine.Walker@EurofinsET.com		State of Origin: Hawaii		Page: Page 1 of 1	
Company: AECOM		Address: 1001 Bishop St, Suite 1600		City: Honolulu		State: HI		Job #:	
Phone: 808-954-4512 / 770-331-0794		Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Rush - ASAP		Due Date Requested: See subcontract		TAT Requested (days):	
Email: Watson.Tanji@aecon.com Mark.Kromis@aecon.com		Project #: 60697810		SSOW#: RHSF		Field Filtered Sample (Yes or No): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Perform MS/MSD (Yes or No): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Site: RHSF		AF-RHMW02-WGN01LF-2303W4		Sample Date: <i>3/25/23</i>		Sample Time: <i>1115</i>		Sample Type (C=Comp, G=grab): <i>G</i>	
Matrix: <i>Water</i>		Preservation Code: <i>W</i>		Field Number of Containers: <i>3</i>		Special Instructions/Note:		Preservation Codes:	
M - Hexane		A - HCL		Total Number of Containers: <i>3</i>		Special Instructions/Note:		M - Hexane	
N - None		B - NaOH						N - None	
O - AsNaO2		C - Zn Acetate						O - AsNaO2	
P - Na2O4S		D - Nitric Acid						P - Na2O4S	
Q - Na2SO3		E - NaHSO4						Q - Na2SO3	
R - H2SO4		F - MeOH						R - H2SO4	
S - H2SO4		G - Amchlor						S - H2SO4	
T - TSP Dodecahydrate		H - Ascorbic Acid						T - TSP Dodecahydrate	
U - Acetone		I - Ice						U - Acetone	
V - MCAA		J - DI Water						V - MCAA	
W - pH 4-5		K - EDTA						W - pH 4-5	
Z - other (specify)		L - EDTA						Z - other (specify)	
		Other:							

Sample Identification		Sample Date: <i>3/25/23</i>		Sample Time: <i>1115</i>		Sample Type (C=Comp, G=grab): <i>G</i>		Matrix: <i>Water</i>	
AF-RHMW02-WGN01LF-2303W4		Preservation Code: <i>W</i>		Field Number of Containers: <i>3</i>		Special Instructions/Note:		Preservation Codes:	

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 <input type="checkbox"/>	
Deliverable Requested I II III IV Other (specify)		Prelim data (Level ToR2)=see TAT above. DoD Stage 4 report standard IAT_AECOM EQuLS EDD.	
Empty Kit Relinquished by:		Date: <i>3/23/23</i> Time: <i>1530</i>	
Relinquished by: <i>Andrew Young</i>		Company: AECOM	
Relinquished by: <i>John S. 1450</i>		Company: AECOM	
Relinquished by:		Company: AECOM	
Custody Seals Intact: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Custody Seal No: <i>15/115</i>	

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	
Special Instructions/QC Requirements: DOD QSM project.		Method of Shipment:	
Received by: <i>Andrew Young</i>		Date/Time: <i>3/23/23 1030</i>	
Received by: <i>John S. 1450</i>		Date/Time: <i>3/23/23 1030</i>	
Received by:		Date/Time:	
Cooler Temperature(s) °C and Other Remarks: <i>15/115</i>		Company: AECOM	



Chain of Custody Record

Client Information		Lab PM: Elaine Walker		Carrier Tracking No(s): 2303W4AFAE10	
Client Contact: TESSA MURPHY		E-Mail: M.Elaine.Walker@EurofinsET.com		FedEx	
Phone: 970-582-5209		State of Origin: Hawaii		Page 1 of 1	
Company: AECOM		PWSD		Job #:	
Address: 1001 Bishop St. Suite 1600		Due Date Requested: see subcontract		Preservation Codes:	
City: Honolulu		TAT Requested (days): Rush - ASAP		A - HCL	
State, Zip: Hawaii 96813		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No		M - Hexane	
Phone: 808-954-4512 / 770-331-0794		PO #:		N - None	
Email: Watson Tanji (watson.tanji@aecom.com) / Mark Kromis (mark.kromis@aecom.com)		WO #:		O - AsNaO2	
Project Name: CTO N6274223F0104		Project #: 60697810		P - Na2O4S	
Site: RH5F		SSOW#:		Q - Na2SO3	
Sample Identification	AF-RHMM17-WGN01LF-2303W4	Sample Date	3/23/23	Sample Time	1220
		Sample Type (C=Comp, G=grab)	G	Matrix (Newwater, Seawater, On-waterfall, BT=Basin, A=Air)	W
		Preservation Code:	W	Field Filtered Sample (Yes or No)	N
				Perform MS/MSD (Yes or No)	N
				8015C_DAL_GL_DSf-2-(2-butylethoxy)-ethanol	A
				Total Number of Containers	3
				Special Instructions/Note:	

Possible Hazard Identification		<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological	
Deliverable Requested I II III IV Other (specify)		Prelim data (Level 1 or 2) - see TAT above. LOD Stage 4 report standard TAT - AECOM EQUIS FDD.	
Empty Kit Relinquished by		Date: 3/23/23 1326	
Relinquished by: <i>Patty Tessa Murphy</i>		Company: AECOM	
Relinquished by: <i>James Walker</i>		Date/Time: 3/23/23 1326	
Relinquished by: <i>[Signature]</i>		Company: <i>[Signature]</i>	
Relinquished by: <i>[Signature]</i>		Date/Time: 4/5/23 1630	
Relinquished by: <i>[Signature]</i>		Company: <i>[Signature]</i>	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Cooler Temperature(s) °C and Other Remarks: <i>15/15</i>	

Analysis Requested		Method of Shipment:	
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	
Special Instructions/QC Requirements DOD QSM project.		Received by: <i>James Walker</i>	
		Date/Time: 3/23/23 1326	
		Company: AECOM	
		Received by: <i>[Signature]</i>	
		Date/Time: 4/5/23 1630	
		Company: <i>[Signature]</i>	
		Date/Time:	
		Company:	



Login Sample Receipt Checklist

Client: AECOM

Job Number: 580-125692-1

Login Number: 125692

List Number: 1

Creator: Presley, Kim A

List Source: Eurofins Seattle

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.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	N/A	
Samples were received on ice.	N/A	
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?	N/A	
There are no discrepancies between the containers received and the COC.	N/A	
Samples are received within Holding Time (excluding tests with immediate HTs)	N/A	
Sample containers have legible labels.	N/A	
Containers are not broken or leaking.	N/A	
Sample collection date/times are provided.	N/A	
Appropriate sample containers are used.	N/A	
Sample bottles are completely filled.	N/A	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	N/A	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: AECOM

Job Number: 580-125692-1

Login Number: 125692

List Number: 2

Creator: Johnson, Corey M

List Source: Eurofins Savannah

List Creation: 04/08/23 02:53 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	

