



ANALYTICAL REPORT

PREPARED FOR

Attn: Terri Choy
AECOM

1001 Bishop Street
Honolulu, Hawaii 96813

Generated 10/13/2023 9:54:00 AM

JOB DESCRIPTION

Red Hill - AFFF Assessment Sampling

JOB NUMBER

580-132500-1

Eurofins Seattle

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

Authorization



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Case Narrative

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

Job ID: 580-132500-1

Job ID: 580-132500-1

Laboratory: Eurofins Seattle

Narrative

CASE NARRATIVE

Client: AECOM
Project: Red Hill - AFFF Assessment Sampling
Report Number: 580-132500-1

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.

Following DoD QSM guidelines, manual integrations were performed only when necessary and are in compliance with the laboratory's standard operating procedure, Acceptable Manual Integration Practices, SOP No.: Q-S-002. The reason(s) for manual integration have been documented on the affected chromatogram(s), which is/are provided in the raw data package. The raw data also includes the original chromatogram(s) prior to any manual integration being performed. Manual integrations are detailed in the manual integration summary forms following this narrative.

It should be noted that samples with elevated Limits of Quantitation (LOQs) resulting from a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the LOQs 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

The samples were received on 10/06/2023; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 5.4 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.

2-(2-Butoxyethoxy)ethanol

Samples AF-RHMW17D-WGN01LF-2310 (580-132500-1), AF-RHMW17D-WQFB01-2310 (580-132500-2), AF-RHMW17S-WGN01LF-2310 (580-132500-3), AF-RHMW17S-WQEB01-2310 (580-132500-4) and AF-RHMW17-WGN01LF-2310 (580-132500-5) were analyzed for 2-(2-Butoxyethoxy)ethanol in accordance with EPA SW-846 Method 8015B - DAI. The samples were analyzed on 10/12/2023.

The continuing calibration verification (CCV) associated with batch 680-802272 recovered outside acceptance criteria, low biased, for 2-(2-Butoxyethoxy)ethanol. A reporting limit (RL) standard was analyzed, and the target analytes were detected. Since the associated samples were non-detect for the analyte, the data has been qualified and reported.

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

Definitions/Glossary

Client: AECOM

Job ID: 580-132500-1

Project/Site: Red Hill - AFFF Assessment Sampling

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
M	Manual integrated compound.
Q	One or more quality control criteria failed.
U	Undetected at the Limit of Detection.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Client Sample Results

Client: AECOM

Job ID: 580-132500-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW17D-WGN01LF-2310

Lab Sample ID: 580-132500-1

Date Collected: 10/04/23 15:30

Matrix: Water

Date Received: 10/06/23 12:40

Method: SW846 8015C GLY - Glycols- Direct Injection (GC/FID)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
2-(2-Butoxyethoxy)ethanol	3.0	U Q	5.0	1.1	mg/L			10/12/23 14:32	1

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Client Sample Results

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

Job ID: 580-132500-1

Client Sample ID: AF-RHMW17D-WQFB01-2310

Lab Sample ID: 580-132500-2

Date Collected: 10/04/23 14:55

Matrix: Water

Date Received: 10/06/23 12:40

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 Q	5.0	1.1	mg/L			10/12/23 14:55	1

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

Client Sample Results

Client: AECOM

Job ID: 580-132500-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW17S-WGN01LF-2310

Lab Sample ID: 580-132500-3

Date Collected: 10/04/23 16:55

Matrix: Water

Date Received: 10/06/23 12:40

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 Q	5.0	1.1	mg/L			10/12/23 15:18	1

- 1
- 2
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Client Sample Results

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

Job ID: 580-132500-1

Client Sample ID: AF-RHMW17S-WQEB01-2310

Lab Sample ID: 580-132500-4

Date Collected: 10/04/23 17:15

Matrix: Water

Date Received: 10/06/23 12:40

Method: SW846 8015C GLY - Glycols- Direct Injection (GC/FID)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
2-(2-Butoxyethoxy)ethanol	3.0	U Q	5.0	1.1	mg/L			10/12/23 15:41	1

- 1
- 2
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- 8
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- 10
- 11

Client Sample Results

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

Job ID: 580-132500-1

Client Sample ID: AF-RHMW17-WGN01LF-2310

Lab Sample ID: 580-132500-5

Date Collected: 10/04/23 13:55

Matrix: Water

Date Received: 10/06/23 12:40

Method: SW846 8015C GLY - Glycols- Direct Injection (GC/FID)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
2-(2-Butoxyethoxy)ethanol	3.0	U Q	5.0	1.1	mg/L			10/12/23 16:04	1

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

QC Sample Results

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

Job ID: 580-132500-1

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

Lab Sample ID: MB 680-802272/8
Matrix: Water
Analysis Batch: 802272

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			10/12/23 13:16	1

Lab Sample ID: LCS 680-802272/5
Matrix: Water
Analysis Batch: 802272

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	21.1		mg/L		106	50 - 150

Lab Sample ID: LCSD 680-802272/6
Matrix: Water
Analysis Batch: 802272

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	17.9		mg/L		89	50 - 150	17	50

Lab Sample ID: 580-132500-1 MS
Matrix: Water
Analysis Batch: 802272

Client Sample ID: AF-RHMW17D-WGN01LF-2310
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
2-(2-Butoxyethoxy)ethanol	3.0	U Q	20.0	19.0		mg/L		95	50 - 150

Lab Sample ID: 580-132500-1 MSD
Matrix: Water
Analysis Batch: 802272

Client Sample ID: AF-RHMW17D-WGN01LF-2310
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2-(2-Butoxyethoxy)ethanol	3.0	U Q	20.0	15.6		mg/L		78	50 - 150	20	50

Lab Chronicle

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

Job ID: 580-132500-1

Client Sample ID: AF-RHMW17D-WGN01LF-2310

Lab Sample ID: 580-132500-1

Date Collected: 10/04/23 15:30

Matrix: Water

Date Received: 10/06/23 12:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015C GLY		1	802272	DBM	EET SAV	10/12/23 14:32

Client Sample ID: AF-RHMW17D-WQFB01-2310

Lab Sample ID: 580-132500-2

Date Collected: 10/04/23 14:55

Matrix: Water

Date Received: 10/06/23 12:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015C GLY		1	802272	DBM	EET SAV	10/12/23 14:55

Client Sample ID: AF-RHMW17S-WGN01LF-2310

Lab Sample ID: 580-132500-3

Date Collected: 10/04/23 16:55

Matrix: Water

Date Received: 10/06/23 12:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015C GLY		1	802272	DBM	EET SAV	10/12/23 15:18

Client Sample ID: AF-RHMW17S-WQEB01-2310

Lab Sample ID: 580-132500-4

Date Collected: 10/04/23 17:15

Matrix: Water

Date Received: 10/06/23 12:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015C GLY		1	802272	DBM	EET SAV	10/12/23 15:41

Client Sample ID: AF-RHMW17-WGN01LF-2310

Lab Sample ID: 580-132500-5

Date Collected: 10/04/23 13:55

Matrix: Water

Date Received: 10/06/23 12:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015C GLY		1	802272	DBM	EET SAV	10/12/23 16:04

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: 580-132500-1

Laboratory: Eurofins Savannah

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

<u>Authority</u>	<u>Program</u>	<u>Identification Number</u>	<u>Expiration Date</u>
ANAB	Dept. of Defense ELAP	L2463	09-22-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

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

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- 2
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Sample Summary

Client: AECOM

Job ID: 580-132500-1

Project/Site: Red Hill - AFFF Assessment Sampling

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-132500-1	AF-RHMW17D-WGN01LF-2310	Water	10/04/23 15:30	10/06/23 12:40
580-132500-2	AF-RHMW17D-WQFB01-2310	Water	10/04/23 14:55	10/06/23 12:40
580-132500-3	AF-RHMW17S-WGN01LF-2310	Water	10/04/23 16:55	10/06/23 12:40
580-132500-4	AF-RHMW17S-WQEB01-2310	Water	10/04/23 17:15	10/06/23 12:40
580-132500-5	AF-RHMW17-WGN01LF-2310	Water	10/04/23 13:55	10/06/23 12:40

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

Chain of Custody Record



Client Information				Sampler: <i>Miranda DeGarmo</i>		Lab PM: Elaine Walker		Carrier Tracking No(s): FedEx		COC No: 2310AFE11		
Client Contact:				Phone: <i>330-205-7662</i>		E-Mail: <i>M.Elaine.Walker@EurofinsET.com</i>		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						Preservation Codes:		
City: Honolulu				TAT Requested (days): Rush - 5 Day						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)		
State, Zip: Hawaii 96813				Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No						Total Number of containers		
Phone: 808-954-4512 / 770-331-0794				PO #:								
Email: <i>Watson Tanji (watson.tanji@aecom.com) / Mark Kromis (mark.kromis@aecom.com)</i>				WO #:								
Project Name: CTO N6274223F0104				Project #: 60697810								
Site: RHSF				SSOW#:								
Sample Identification				Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Sealed, On-site, etc)	Field Filtered Sample (Yes or No)	Form MSMSD (Yes or No)			
AF-RHMW17D-WGN01LF-2310				10/4/23	1530	G	W	N	N	X		3
AF-RHMW17D-WQFB01-2310				10/4/23	1455	G	W	N	N	X		3

580-132500 Chain of Custody

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.					
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment: <i>Unitel AWB: 016-9741236</i>					
Relinquished by: <i>Miranda DeGarmo</i>		Date/Time: <i>10/4/23 1810</i>		Company: AECOM		Received by: <i>Eli Martin</i>		Date/Time: <i>10/4/23 1810</i>		Company: AECOM	
Relinquished by: <i>Eli Martin</i>		Date/Time: <i>10/6/23 1445</i>		Company: AECOM		Received by: <i>[Signature]</i>		Date/Time: <i>10/6/23 1240</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) and Other Remarks: <i>5.1/5.4</i>					

Chain of Custody Record

Client Information		Sampler: Justin Descant		Lab PM: Elaine Walker		Carrier Tracking No(s): FedEx		COC No: 2310AFEA12					
Client Contact:		Phone: (318) 305-2994		E-Mail: M.Elaine.Walker@EurofinsET.com		State of Origin: Hawaii		Page: Page 1 of 1					
Company: AECOM		IPWSID:		Analysis Requested						Job #:			
Address: 1001 Bishop St. Suite 1600		Due Date Requested: see subcontract		<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg); font-size: 8px;"> Field Filled Sample (Yes or No) Perform MS/MSD (Yes or No) 8016C_DAL_GL_DS_2-(2-butoxyethoxy)-ethanol </div> <div style="text-align: center;"> <p style="font-size: 2em; color: blue;">M.D. 10/4/23</p> </div> <div style="writing-mode: vertical-rl; font-size: 8px;"> Total Number of Containers </div> </div>						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 checked="" 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	
Sample Identification		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, AA=Air)		Special Instructions/Note:			
										Preservation Code:			
AF-RHMW17S-WGN01LF-2310		10/4/23		1655		G		W		N N X			
AF-RHMW17S-WQEB01-2310		10/4/23		1715		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: United AWB: 016-9741836							
Relinquished by: <i>Miranda DeBarne</i>		Date/Time: 10/4/23 1810		Company: AECOM		Received by: <i>Eli Martin</i>		Date/Time: 10/4/23 1810		Company: AECOM			
Relinquished by: <i>Eli Martin</i>		Date/Time: 10/5/23 1445		Company: AECOM		Received by:		Date/Time: 10/6/23 1240		Company: AECOM			
Custody Seals Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 5.1/5.4									



Chain of Custody Record

Client Information		Sampler: <i>Jorge Velasco</i>		Lab PM: Elaine Walker		Carrier Tracking No(s): FedEx		COC No: 2310AFEA10																																																								
Client Contact:		Phone: <i>224-647-2532</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);">8015C_DAL_GL_DS/2-(2-butoxyethoxy)-ethanol</td> <td colspan="10"></td> <td rowspan="5" style="writing-mode: vertical-rl; transform: rotate(180deg);">Total Number of Containers</td> </tr> <tr> <td colspan="10"></td> </tr> <tr> <td colspan="10"></td> </tr> <tr> <td colspan="10"></td> </tr> <tr> <td colspan="10"></td> </tr> </table>						Field Filtered Sample (Yes or No)	8015C_DAL_GL_DS/2-(2-butoxyethoxy)-ethanol											Total Number of Containers																																									Preservation Codes:	
Field Filtered Sample (Yes or No)	8015C_DAL_GL_DS/2-(2-butoxyethoxy)-ethanol											Total Number of Containers																																																				
City: Honolulu		TAT Requested (days): Rush - 5 Day		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No		A - HCL		M - Hexano																																																								
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																																																								
		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Matrix (W=Water, S=Solid, O=Organic, BT=Tissue, AA=Air)		E - NaHSO4		Q - Na2SO3																																																				
		Preservation Code:								F - MeOH		R - Na2S2O3																																																				
		AF-RHMW17-WGN01LF-2310		10/4/23 1355		G W		N N X		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:																																																						
										Special Instructions/Note:																																																						

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 EQUIS EDD. Special Instructions/QC Requirements: DOD QSM project.

Empty Kit Relinquished by:		Date:		Time:		Method of Shipment: <i>United AWR; 016-9741836</i>	
Relinquished by: <i>[Signature]</i>		Date/Time: <i>10/4/23 1550</i>		Company: AECOM		Received by: <i>Ernst Reinz</i>	
Relinquished by: <i>Ernst Reinz</i>		Date/Time: <i>10/5/23 1449</i>		Company: AECOM		Received by: <i>[Signature]</i>	
Relinquished by:		Date/Time:		Company:		Received by:	

Custody Seals Intact: Yes No Custody Seal No.: _____ Cooler Temperature(s) °C and Other Remarks: *5.1/5.4*

Login Sample Receipt Checklist

Client: AECOM

Job Number: 580-132500-1

Login Number: 132500

List Number: 1

Creator: Johnson, Corey M

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.	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	

Login Sample Receipt Checklist

Client: AECOM

Job Number: 580-132500-1

Login Number: 132500

List Number: 2

Creator: Richard, Meghan

List Source: Eurofins Savannah

List Creation: 10/11/23 12:50 AM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
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.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

