



ANALYTICAL REPORT

PREPARED FOR

Attn: Terri Choy
AECOM
1001 Bishop Street
Honolulu, Hawaii 96813
Generated 2/16/2023 9:12:02 AM

JOB DESCRIPTION

Red Hill - AFFF Assessment Sampling

JOB NUMBER

580-123424-1

Job Notes

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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
M.Elaine.Walker@et.eurofinsus.com
(253)248-4972



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Case Narrative

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

Job ID: 580-123424-1

Job ID: 580-123424-1

Laboratory: Eurofins Seattle

Narrative

CASE NARRATIVE

Client: AECOM

Project: Red Hill - AFFF Assessment Sampling

Report Number: 580-123424-1

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

Three samples were received on 2/11/2023 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 4.4° C.

Sample AF-RHMW225401-WGN01LF-2302W1 (580-123424-3) was cancelled per client request via email on February 16, 2023.

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-RHMW04-WGN01LF-2302W1 (580-123424-1) and AF-RHMW06-WGN01LF-2302W1 (580-123424-2) were analyzed for glycols in accordance with EPA SW-846 Method 8015B - DAI. The samples were analyzed on 02/14/2023.

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

Definitions/Glossary

Client: AECOM

Job ID: 580-123424-1

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: 580-123424-1

Client Sample ID: AF-RHMW04-WGN01LF-2302W1

Lab Sample ID: 580-123424-1

Date Collected: 02/09/23 10:55

Matrix: Water

Date Received: 02/11/23 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			02/14/23 17:11	1

- 1
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Client Sample Results

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

Job ID: 580-123424-1

Client Sample ID: AF-RHMW06-WGN01LF-2302W1

Lab Sample ID: 580-123424-2

Date Collected: 02/09/23 12:05

Matrix: Water

Date Received: 02/11/23 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			02/14/23 17:35	1

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- 10
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QC Sample Results

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

Job ID: 580-123424-1

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

Lab Sample ID: MB 680-763353/10
Matrix: Water
Analysis Batch: 763353

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			02/14/23 16:48	1

Lab Sample ID: LCS 680-763353/1006
Matrix: Water
Analysis Batch: 763353

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	18.8		mg/L		94	50 - 150

Lab Sample ID: LCSD 680-763353/7
Matrix: Water
Analysis Batch: 763353

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	19.9		mg/L		99	50 - 150	6	50

Lab Sample ID: 580-123424-2 MS
Matrix: Water
Analysis Batch: 763353

Client Sample ID: AF-RHMW06-WGN01LF-2302W1
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	21.2		mg/L		106	50 - 150

Lab Sample ID: 580-123424-2 MSD
Matrix: Water
Analysis Batch: 763353

Client Sample ID: AF-RHMW06-WGN01LF-2302W1
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	18.1		mg/L		90	50 - 150	16	50

Lab Chronicle

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

Job ID: 580-123424-1

Client Sample ID: AF-RHMW04-WGN01LF-2302W1

Lab Sample ID: 580-123424-1

Date Collected: 02/09/23 10:55

Matrix: Water

Date Received: 02/11/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015C GLY		1	763353	GEM	EET SAV	02/14/23 17:11

Client Sample ID: AF-RHMW06-WGN01LF-2302W1

Lab Sample ID: 580-123424-2

Date Collected: 02/09/23 12:05

Matrix: Water

Date Received: 02/11/23 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015C GLY		1	763353	GEM	EET SAV	02/14/23 17:35

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: 580-123424-1

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: 580-123424-1

Project/Site: Red Hill - AFFF Assessment Sampling

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-123424-1	AF-RHMW04-WGN01LF-2302W1	Water	02/09/23 10:55	02/11/23 10:30
580-123424-2	AF-RHMW06-WGN01LF-2302W1	Water	02/09/23 12:05	02/11/23 10:30

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Chain of Custody Record

Client Information Client Contact: Elaine Walker Phone: 808-954-4512 Company: AECOM		Lab P/N: Elaine Walker E-Mail: Elaine.Walker@EurofinsET.com Carrier Tracking No(s): FedEx State of Origin: Hawaii		COC No: 2302W1AFE08 Page: Page 1 of 1 Job #:	
Address: 1001 Bishop St. Suite 1600 City: Honolulu State, Zip: Hawaii 96813 Phone: 808-954-4512 / 770-331-0794 Email: Watson.Tanji@aecom.com / Mark.Kromis@aecom.com		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 Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:	
Sample Identification AF-RHMW04-WGN01LF-2302W1		Sample Date: 2.9.23	Sample Time: 1055	Sample Type (C=Comp, G=grab): G	Matrix (Liquid, Solid, Swab, Spill, etc.):
Preservation Code: W		Field Filtered Sample (Yes or No): N		Perform MS/MSD (Yes or No): N	
Total Number of Containers: 3		Special Instructions/Note:		Total Number of Containers: 3	
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:					
Relinquished by: <i>Go</i>		Date/Time: 2.9.23 / 1300		Company: AECOM	
Relinquished by: Miranda DeGiarno		Date/Time: 2/14/23 / 1400		Company: AECOM	
Relinquished by:		Date/Time:		Company:	
Custody Seals Intact: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Cooler Temperature(s) °C and Other Remarks: 4-4 4-4		Ver: 01/16/2019	



Client Information Client Contact: Company: Address: City: State, Zip: Phone: Email: Project Name: Site:	Sampler: Matt Yim Phone: 808-349-428 PWSID:	Carrier Tracking No(s): FedEx State of Origin: Hawaii	Lab PM: Elaine Walker E-Mail: M.Elaine.Walker@EurofinsET.com	COC No: 2302W1AFA09 Page: Page 1 of 1 Job #:	<p style="text-align: center;">Analysis Requested</p> <p><i>Handwritten: MIRAIDA DELGADO</i></p> <p><i>Handwritten: 808-349-428</i></p> <p>Due Date Requested: see subcontract</p> <p>TAT Requested (days): Rush - ASAP</p> <p>Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>PO #: WO #: Project #: 60697810 SSOW#:</p> <p>80% GC, AL, GL, DS / Z-(2-butoxylethoxy)-ethanol</p> <p style="text-align: center;">Perform MS/MSD (Yes or No)</p> <p style="text-align: center;">Field Filtered Sample (Yes or No)</p> <p>Sample Date: 2/9/23 Sample Time: 1205 Sample Type: G Matrix: Water, Seawater, Wastewater, Air</p> <p>Sample Identification: AF-RHMW06-WGN01LF-2302W1</p>	Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:	Special Instructions/Note: Total Number of containers: 3
<p>Possible Hazard Identification</p> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/>				<p>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</p> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			
<p>Deliverable Requested: I, II, III, IV, Other (specify)</p> report standard IAT_AECOM EQUIS EDD				<p>Special Instructions/QC Requirements: DOD QSM project.</p>			
<p>Empty Kit Relinquished by:</p> Relinquished by: Matt Yim Matt Yim Date: 2/9/23 Time: 1300 Company: AECOM				<p>Method of Shipment:</p> Received by: Miranda Delgado Date/Time: 2/9/23 1300 Company: AECOM			
<p>Relinquished by: Miranda Delgado Date/Time: 2/9/23 Company: AECOM</p>				<p>Received by: [Signature] Date/Time: 02/11/23 10:00 Company: _____</p>			
<p>Custody Seals Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> Custody Seal No.:				<p>Cooler Temperature(s) °C and Other Remarks: y-y y-y</p>			

Client Information		Lab P#: Elaine Walker	Carrier Tracking No(s): 2302W1AFEA07
Client Contact: NAH TURVER		State of Origin: Hawaii	
Phone: (781) 366-4777		E-Mail: M.Elaire.Walker@EurofinsE.I.com	Pages: Page 1 of 1
Company: AECOM		PWSID:	Job #:
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 Project Name: CTO N627423F0104 Site: RHF			
Email: Watson Tanji (watson.tanji@aecom.com) Mark Kromis (mark.kromis@aecom.com) Project Name: CTO N627423F0104 Site: RHF			
Address: 1001 Bishop St. Suite 1600 City: Honolulu State, Zip: Hawaii 96813 Phone: 808-954-4512 / 770-331-0794		Preservation Codes: M - Hexane N - None O - ASNGO2 P - Na2O4S Q - Na2SO3 R - Na2SO4 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 L - EDTA Z - other (specify) Other:	
Date Requested: 2/9/2023 Sample Date: 2/9/2023 0920 Sample Time: 0920 Matrix (W=water, S=solid, O=wasteoil, B=bi-tissue, N=oil) Preservation Code: G W Sample Type (C=comp, G=grab) Field Filtered Sample (Yes or No) N N X Perform MS/MSD (Yes or No) X X X 8015C_DAL_GL_DS/ 2-(2-butoxyethoxy)-ethanol			
Sample Identification AF-RHMW226401-WGN01P2302W1 LF TAG #2108123		Total Number of containers: 3 Special Instructions/Note: HOLD FOR ANALYSIS UNTIL NOTIFIED BY CLIENT	
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) 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 Special Instructions/QC Requirements: DOD QSM project. 4 report standard TAT - AECOM EQUUS FDD Date:			
Relinquished by: NAH TURVER Relinquished by: Miranda DeCarne Relinquished by:		Date/Time: 2/9/23 / 1300 Date/Time: 2/11/23 10:30 Date/Time:	
Company: AECOM Company: AECOM Company:		Company: AECOM Company: AECOM Company:	
Custody Seal Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Cooler Temperature(s) °C and Other Remarks: 4.4 4.4	



Chain of Custody Record

Client Information		Sample#	CMTS Hayden 800-871-4335		Lab PM	Elaine Walker	Carrier Tracking Note(s)	FedEx	COC No.	2302W1AFA08	Page 1 of 1	Job #:	Analysis Requested		
Client Contact		Phone			PWSID	M Elaine Walker@EurofinsET.com							Preservation Codes		
Address		City	Honolulu	TAT Requested (days)	Rush - ASAP								Special Instructions/Note:		
1001 Bishop St Suite 1600		State Zip	Hawaii 96813	Compliance Project	Δ Yes Δ No								Field Filtered Sample (Yes or No)		
Phone		PO #	808-954-4512 / 770-331-0794	Sample Matrix	(W=water, G=comp, S=solid, BT=Trisun, A=Alg)								Perform MS/MSD (Yes or No)		
Email:		WO #:		Sample Date	Sample Time	Sample Type							Botisc_DAL_GL_Dst 2-(2-butoxyethoxy)-ethanol		
Watson Tanji (watson.tanji@aecom.com) / Mark Kromis (mark.kromis@aecom.com)		Project #:	60697810	Sample Date	2.9.23	1055							Total Number of Containers		
Site		SSOW#:		Preservation Code:									3		
RHSF		Project Name	CTO N6274223F0104	Sample Type									Special Instructions/Note:		
AF-RHMMW04-WGN01LF-2302W1		Project #:		Sample Matrix									580-123424 Chain of Custody		
Possible Hazard Identification		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"/>		Prelim data (Level 1 or 2)=see TAT above DOD Stage 4 report standard TAT AECOM EQULS FPD		Deliverable Requested I, II, III, IV Other (specify)		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 <input type="checkbox"/> Months		Empty Kit Relinquished by		Date	
Relinquished by		Miranda DeGarmo		Date/Time		2/9/23 / 1300		Company		AECOM		Received by		Date/Time	
Relinquished by		Miranda DeGarmo		Date/Time		2/9/23 / 1400		Company		AECOM		Received by		Date/Time	
Custody Seal No		Δ Yes Δ No		Cooler Temperature(s) °C and Other Remarks		h-h		h-h		Ver: 01/16/2019					

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Chain of Custody Record

Lab PM	Client Contact: Elaine Walker E-Mail: Elaine.Walker@eurofinsf.t.com State of Origin: Hawaii	Client Information Name: Mark Yim Phone: 808-349-4428 PWSID:	Company: AECOM Address: 1001 Bishop St Suite 1600 Honolulu HI 96813 State Zip: Hawaii 96813 City: Honolulu Address: 1001 Bishop St Suite 1600 Phone: 808-954-4512 / 770-331-0794 Email: mark.kromis@aecom.com / mark.kromis@eurofinsf.com Project Name: CTO N6274223F0104 Project #: 60697810 SOW#: 808-954-4512 / 770-331-0794	Due Date Requested: see subcontract TAT Requested (days): Rush - ASAP Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No PO #: Matrix: <input type="checkbox"/> Water <input type="checkbox"/> Soil <input type="checkbox"/> Waste <input type="checkbox"/> Air Field Filtered Sample (Yes or No): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Perform MSMSD (Yes or No): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 8015C DAL GL_D9 2-(4-butoxyethoxy)-ethanol	Analysis Requested	Preservation Codes A HCL B NaOH C Zn Acetate D Nitric Acid E NaHSO4 F MeOH G Amchlor H Ascorbic Acid I Ice J DI Water K EDTA L EDTA M Hexane N None O AsNaO2 P Na2O4S Q Na2SO3 R Na2SO3 S H2SO4 T TSP Dodecylsulfate U Acetone V MCAA W pH 4-5 Z other (specify) Other:	Sample Identification Sample Date: 2/9/23 Sample Time: 1205 Sample Type: G Matrix: W Preservation Code: X	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 Special Instructions/QC Requirements DOD QSM project	Deliverable Requested I, II, III, IV Other (specify) _____ <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 Prelim data (Level 1 or 2) - see TAT above DOD Stage 4 report standard TAT. AECOM Equis EDD	Empty Kit-Relinquished by: _____ Date: _____ Method of Shipment: _____	Relinquished by: Mark Yim mark yim Date/Time: 2/14/23 Company: AECOM	Relinquished by: Miranda Bergmann Date/Time: 2/14/23 Company: AECOM	Relinquished by: Date/Time: 02/11/23 10:30 AM Company: AECOM	Custody Seal Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Custody Seal No	Cooler Temperature(s) °C and Other Remarks h-h h-h
Total Number of containers: 3 Analysis Requested: 3															

Ver 01/16/2019

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Chain of Custody Record

Client Information		Sample # MOAH TURNER	Phone (781) 366-4777	E-Mail M.Elaine.Walker@EurofinsET.com	State of Origin Hawaii	Page 1 of 1	CCC No. 2302W1AFAA07
Company AECOM		Address 1001 Bishop St Suite 1600	City Honolulu	State Zip: Hawaii 96813	Phone 808-954-4512 / 770-331-0794	Email Walson Tanji (walson.tanji@aecom.com) / Mark Kromis (mark.kromis@aecom.com)	Project #: CTO N627423F0104
Due Date Requested see subcontract		TAT Requested (days) Rush - ASAP	Compliance Project <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	PO #	Project # 60697810	SSOW #	Site RH5F
Sample Identification		Sample Date 2/9/2023	Sample Time 0920	Sample Type G	Sample Matrix W	Field Filtered Sample (Yes or No) N	Field MS/MSD (Yes or No) N
Sample Instructions/Note:		HOLD FOR ANALYSIS WRITE NOTIFIED BY CLIENT					
Special Instructions/Note:		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					
Analysis Requested		Analysis Requested 8015C_DAL_GL_Dst/2-(2-hydroxyethoxy)-ethanol					
Preservation Codes		A HCL B NaOH N None C Zn Acetate D Nitric Acid P Na2SO4 Q Na2SO3 F MeOH R Na2S2O3 S H2SO4 G Anhydrous H Acetic Acid T TSP Dodecahydrate U Acetone V DI Water K EDTA W pH 4-5 Z other (specify) L EDA Other					
Analysis Requested		Total Number of containers 3					
Sample Identification		AF-RHMMW25401-WGN01A-2302W1 L.F. ind #2108123					
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 1or2)=see TAT above DOD Stage 4 report standard TAT AECOM Equiv EDD					
Empty Kit Relinquished by		Date Time Method of Shipment					
Relinquished by		Date/Time Company Received by Date/Time Company					
Relinquished by		Date/Time Company Received by Date/Time Company					
Relinquished by		Date/Time Company Received by Date/Time Company					
Custody Seal Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Cooler Temperature(s) °C and Other Remarks y-y y-y					



Login Sample Receipt Checklist

Client: AECOM

Job Number: 580-123424-1

Login Number: 123424

List Number: 2

Creator: Meincke, Griffin E

List Source: Eurofins Savannah

List Creation: 02/14/23 11:31 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.		
The cooler's custody seal, if present, is intact.		
Sample custody seals, if present, are intact.		
The cooler or samples do not appear to have been compromised or tampered with.		
Samples were received on ice.		
Cooler Temperature is acceptable.		
Cooler Temperature is recorded.		
COC is present.		
COC is filled out in ink and legible.		
COC is filled out with all pertinent information.		
Is the Field Sampler's name present on COC?		
There are no discrepancies between the containers received and the COC.		
Samples are received within Holding Time (excluding tests with immediate HTs)		
Sample containers have legible labels.		
Containers are not broken or leaking.		
Sample collection date/times are provided.		
Appropriate sample containers are used.		
Sample bottles are completely filled.		
Sample Preservation Verified.		
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs		
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").		
Multiphasic samples are not present.		
Samples do not require splitting or compositing.		
Residual Chlorine Checked.		