



ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Erwin Kawata
City & County of Honolulu
630 South Beretania Street
Public Service Bldg. Room 310
Honolulu, Hawaii 96843

Generated 5/3/2024 5:17:47 PM

JOB DESCRIPTION

INTERA - Red-Hill-Incident

JOB NUMBER

380-93226-1

Eurofins Eaton Analytical Pomona

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 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 Eaton Analytical, LLC Project Manager.

Compliance Statement

1. Laboratory is accredited in accordance with TNI 2016 Standards and ISO/IEC 17025:2017.
2. Laboratory certifies that the test results meet all TNI 2016 and ISO/IEC 17025:2017 requirements unless noted under the individual analysis
3. Test results relate only to the sample(s) tested.
4. This report shall not be reproduced except in full, without the written approval of the laboratory.
5. Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below. (DW, Water matrices)

Authorization



Generated
5/3/2024 5:17:47 PM

Authorized for release by
Rachelle Arada, Project Manager
Rachelle.Arada@et.eurofinsus.com
(626)386-1106



Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Detection Summary	6
Client Sample Results	7
Action Limit Summary	8
Surrogate Summary	9
QC Sample Results	10
QC Association Summary	13
Lab Chronicle	14
Certification Summary	15
Method Summary	16
Sample Summary	17
Chain of Custody	18
Receipt Checklists	22

Definitions/Glossary

Client: City & County of Honolulu
Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-93226-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
F1	MS and/or MSD recovery exceeds control limits.

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

Case Narrative

Client: City & County of Honolulu
Project: INTERA - Red-Hill-Incident

Job ID: 380-93226-1

Job ID: 380-93226-1

Eurofins Eaton Analytical Pomona

Job Narrative 380-93226-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The sample was received on 4/26/2024 10:57 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.1°C.

GC/MS Semi VOA

Method 8270E: The continuing calibration verification (CCV) associated with batch 240-611595 recovered above the upper control limit for Benzo[g,h,i]perylene. The sample(s) associated with this CCV were non-detect for the affected analyte; therefore, the data have been reported. The associated sample is impacted: BWS2253-J1-AQ (380-93226-1).

Method 8270E: The laboratory control sample (LCS) for preparation batch 240-611431 and analytical batch 240-611595 recovered outside control limits for the following analyte: Benzo[g,h,i]perylene. This analyte was biased high in the LCS and was not detected in the associated sample: BWS2253-J1-AQ (380-93226-1); therefore, the data has been reported.

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

Detection Summary

Client: City & County of Honolulu
Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-93226-1

Client Sample ID: BWS2253-J1-AQ

Lab Sample ID: 380-93226-1

No Detections.

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16

This Detection Summary does not include radiochemical test results.

Eurofins Eaton Analytical Pomona

Client Sample Results

Client: City & County of Honolulu
 Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-93226-1

Client Sample ID: BWS2253-J1-AQ

Lab Sample ID: 380-93226-1

Date Collected: 04/25/24 11:00

Matrix: Water

Date Received: 04/26/24 10:57

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.20		0.20	ug/L		05/01/24 09:11	05/02/24 15:05	1
Acenaphthylene	<0.20		0.20	ug/L		05/01/24 09:11	05/02/24 15:05	1
Anthracene	<0.20		0.20	ug/L		05/01/24 09:11	05/02/24 15:05	1
Benzo[a]anthracene	<0.20		0.20	ug/L		05/01/24 09:11	05/02/24 15:05	1
Benzo[a]pyrene	<0.20		0.20	ug/L		05/01/24 09:11	05/02/24 15:05	1
Benzo[b]fluoranthene	<0.20		0.20	ug/L		05/01/24 09:11	05/02/24 15:05	1
Benzo[g,h,i]perylene	<0.20	*+ F1	0.20	ug/L		05/01/24 09:11	05/02/24 15:05	1
Benzo[k]fluoranthene	<0.20		0.20	ug/L		05/01/24 09:11	05/02/24 15:05	1
Chrysene	<0.20		0.20	ug/L		05/01/24 09:11	05/02/24 15:05	1
Dibenz(a,h)anthracene	<0.20		0.20	ug/L		05/01/24 09:11	05/02/24 15:05	1
Fluoranthene	<0.20		0.20	ug/L		05/01/24 09:11	05/02/24 15:05	1
Fluorene	<0.20		0.20	ug/L		05/01/24 09:11	05/02/24 15:05	1
Indeno[1,2,3-cd]pyrene	<0.20		0.20	ug/L		05/01/24 09:11	05/02/24 15:05	1
Naphthalene	<0.20		0.20	ug/L		05/01/24 09:11	05/02/24 15:05	1
Phenanthrene	<0.20		0.20	ug/L		05/01/24 09:11	05/02/24 15:05	1
Pyrene	<0.20		0.20	ug/L		05/01/24 09:11	05/02/24 15:05	1
2-Butoxyethanol	<4.1		4.1	ug/L		05/01/24 09:11	05/02/24 15:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14 (Surr)	104		43 - 136	05/01/24 09:11	05/02/24 15:05	1
Phenol-d5 (Surr)	26		10 - 120	05/01/24 09:11	05/02/24 15:05	1
Nitrobenzene-d5 (Surr)	81		40 - 120	05/01/24 09:11	05/02/24 15:05	1
2-Fluorophenol (Surr)	43		10 - 127	05/01/24 09:11	05/02/24 15:05	1
2-Fluorobiphenyl (Surr)	94		41 - 120	05/01/24 09:11	05/02/24 15:05	1
2,4,6-Tribromophenol (Surr)	96		23 - 127	05/01/24 09:11	05/02/24 15:05	1

Action Limit Summary

Client: City & County of Honolulu
Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-93226-1

Client Sample ID: BWS2253-J1-AQ

Lab Sample ID: 380-93226-1

Compliance Check

The results obtained from the analytical testing of this data set were checked against compliance limits received from the client. Any results at or above the compliance limits have been highlighted for your convenience.

Analyte	Result	Qualifier	Unit	EPAMCL Limit	RL	Method	Prep Type
Benzo[a]pyrene	<0.20		ug/L	0.2	0.20	8270E	Total/NA

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16

Surrogate Summary

Client: City & County of Honolulu
Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-93226-1

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TPHL	PHL	NBZ	2FP	FBP	TBP
		(43-136)	(10-120)	(40-120)	(10-127)	(41-120)	(23-127)
380-93226-1	BWS2253-J1-AQ	104	26	81	43	94	96
380-93226-1 MS	BWS2253-J1-AQ	94	30	93	48	100	111
380-93226-1 MSD	BWS2253-J1-AQ	92	28	90	45	96	109
LCS 240-611431/2-A	Lab Control Sample	104	33	100	55	104	116
MB 240-611431/1-A	Method Blank	110	30	84	49	99	93

Surrogate Legend

TPHL = Terphenyl-d14 (Surr)
PHL = Phenol-d5 (Surr)
NBZ = Nitrobenzene-d5 (Surr)
2FP = 2-Fluorophenol (Surr)
FBP = 2-Fluorobiphenyl (Surr)
TBP = 2,4,6-Tribromophenol (Surr)

QC Sample Results

Client: City & County of Honolulu
 Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-93226-1

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 240-611431/1-A
Matrix: Water
Analysis Batch: 611595

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 611431

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.20		0.20	ug/L		05/01/24 09:05	05/02/24 12:40	1
Acenaphthylene	<0.20		0.20	ug/L		05/01/24 09:05	05/02/24 12:40	1
Anthracene	<0.20		0.20	ug/L		05/01/24 09:05	05/02/24 12:40	1
Benzo[a]anthracene	<0.20		0.20	ug/L		05/01/24 09:05	05/02/24 12:40	1
Benzo[a]pyrene	<0.20		0.20	ug/L		05/01/24 09:05	05/02/24 12:40	1
Benzo[b]fluoranthene	<0.20		0.20	ug/L		05/01/24 09:05	05/02/24 12:40	1
Benzo[g,h,i]perylene	<0.20		0.20	ug/L		05/01/24 09:05	05/02/24 12:40	1
Benzo[k]fluoranthene	<0.20		0.20	ug/L		05/01/24 09:05	05/02/24 12:40	1
Chrysene	<0.20		0.20	ug/L		05/01/24 09:05	05/02/24 12:40	1
Dibenz(a,h)anthracene	<0.20		0.20	ug/L		05/01/24 09:05	05/02/24 12:40	1
Fluoranthene	<0.20		0.20	ug/L		05/01/24 09:05	05/02/24 12:40	1
Fluorene	<0.20		0.20	ug/L		05/01/24 09:05	05/02/24 12:40	1
Indeno[1,2,3-cd]pyrene	<0.20		0.20	ug/L		05/01/24 09:05	05/02/24 12:40	1
Naphthalene	<0.20		0.20	ug/L		05/01/24 09:05	05/02/24 12:40	1
Phenanthrene	<0.20		0.20	ug/L		05/01/24 09:05	05/02/24 12:40	1
Pyrene	<0.20		0.20	ug/L		05/01/24 09:05	05/02/24 12:40	1
2-Butoxyethanol	<4.0		4.0	ug/L		05/01/24 09:05	05/02/24 12:40	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>Terphenyl-d14 (Surr)</i>	110		43 - 136	05/01/24 09:05	05/02/24 12:40	1
<i>Phenol-d5 (Surr)</i>	30		10 - 120	05/01/24 09:05	05/02/24 12:40	1
<i>Nitrobenzene-d5 (Surr)</i>	84		40 - 120	05/01/24 09:05	05/02/24 12:40	1
<i>2-Fluorophenol (Surr)</i>	49		10 - 127	05/01/24 09:05	05/02/24 12:40	1
<i>2-Fluorobiphenyl (Surr)</i>	99		41 - 120	05/01/24 09:05	05/02/24 12:40	1
<i>2,4,6-Tribromophenol (Surr)</i>	93		23 - 127	05/01/24 09:05	05/02/24 12:40	1

Lab Sample ID: LCS 240-611431/2-A
Matrix: Water
Analysis Batch: 611595

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 611431

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Acenaphthene	20.0	19.8		ug/L		99	50 - 120
Acenaphthylene	20.0	20.8		ug/L		104	49 - 120
Anthracene	20.0	21.6		ug/L		108	55 - 124
Benzo[a]anthracene	20.0	22.2		ug/L		111	55 - 130
Benzo[a]pyrene	20.0	21.2		ug/L		106	51 - 123
Benzo[b]fluoranthene	20.0	20.3		ug/L		102	51 - 130
Benzo[g,h,i]perylene	20.0	27.3	*+	ug/L		136	55 - 135
Benzo[k]fluoranthene	20.0	21.3		ug/L		107	53 - 130
Chrysene	20.0	20.7		ug/L		104	52 - 126
Dibenz(a,h)anthracene	20.0	23.1		ug/L		115	57 - 132
Fluoranthene	20.0	22.8		ug/L		114	56 - 135
Fluorene	20.0	20.4		ug/L		102	52 - 124
Indeno[1,2,3-cd]pyrene	20.0	23.7		ug/L		118	55 - 134
Naphthalene	20.0	18.5		ug/L		93	46 - 120
Phenanthrene	20.0	20.5		ug/L		102	54 - 120
Pyrene	20.0	22.8		ug/L		114	53 - 135
2-Butoxyethanol	20.0	9.54		ug/L		48	16 - 120

Eurofins Eaton Analytical Pomona

QC Sample Results

Client: City & County of Honolulu
 Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-93226-1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-611431/2-A
Matrix: Water
Analysis Batch: 611595

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 611431

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
Terphenyl-d14 (Surr)	104		43 - 136
Phenol-d5 (Surr)	33		10 - 120
Nitrobenzene-d5 (Surr)	100		40 - 120
2-Fluorophenol (Surr)	55		10 - 127
2-Fluorobiphenyl (Surr)	104		41 - 120
2,4,6-Tribromophenol (Surr)	116		23 - 127

Lab Sample ID: 380-93226-1 MS
Matrix: Water
Analysis Batch: 611595

Client Sample ID: BWS2253-J1-AQ
Prep Type: Total/NA
Prep Batch: 611431

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	%Rec Limits
				Result	Qualifier				
Acenaphthene	<0.20		20.4	19.2		ug/L		94	33 - 120
Acenaphthylene	<0.20		20.4	20.5		ug/L		100	34 - 120
Anthracene	<0.20		20.4	21.3		ug/L		104	50 - 120
Benzo[a]anthracene	<0.20		20.4	22.3		ug/L		109	47 - 131
Benzo[a]pyrene	<0.20		20.4	21.1		ug/L		103	44 - 120
Benzo[b]fluoranthene	<0.20		20.4	19.8		ug/L		97	46 - 122
Benzo[g,h,i]perylene	<0.20	*+ F1	20.4	27.5	F1	ug/L		135	43 - 132
Benzo[k]fluoranthene	<0.20		20.4	21.6		ug/L		106	47 - 123
Chrysene	<0.20		20.4	20.8		ug/L		102	44 - 126
Dibenz(a,h)anthracene	<0.20		20.4	23.0		ug/L		113	45 - 130
Fluoranthene	<0.20		20.4	23.0		ug/L		113	51 - 126
Fluorene	<0.20		20.4	20.2		ug/L		99	45 - 120
Indeno[1,2,3-cd]pyrene	<0.20		20.4	23.5		ug/L		115	43 - 133
Naphthalene	<0.20		20.4	18.1		ug/L		88	29 - 120
Phenanthrene	<0.20		20.4	20.3		ug/L		100	48 - 120
Pyrene	<0.20		20.4	22.7		ug/L		111	42 - 138
2-Butoxyethanol	<4.1		20.4	7.99		ug/L		39	10 - 120

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
Terphenyl-d14 (Surr)	94		43 - 136
Phenol-d5 (Surr)	30		10 - 120
Nitrobenzene-d5 (Surr)	93		40 - 120
2-Fluorophenol (Surr)	48		10 - 127
2-Fluorobiphenyl (Surr)	100		41 - 120
2,4,6-Tribromophenol (Surr)	111		23 - 127

Lab Sample ID: 380-93226-1 MSD
Matrix: Water
Analysis Batch: 611595

Client Sample ID: BWS2253-J1-AQ
Prep Type: Total/NA
Prep Batch: 611431

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD MSD		Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
				Result	Qualifier						
Acenaphthene	<0.20		19.0	17.6		ug/L		93	33 - 120	9	29
Acenaphthylene	<0.20		19.0	18.9		ug/L		99	34 - 120	8	31
Anthracene	<0.20		19.0	20.0		ug/L		105	50 - 120	6	28
Benzo[a]anthracene	<0.20		19.0	20.4		ug/L		107	47 - 131	9	29
Benzo[a]pyrene	<0.20		19.0	19.5		ug/L		102	44 - 120	8	28

Eurofins Eaton Analytical Pomona

QC Sample Results

Client: City & County of Honolulu
 Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-93226-1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 380-93226-1 MSD

Matrix: Water

Analysis Batch: 611595

Client Sample ID: BWS2253-J1-AQ

Prep Type: Total/NA

Prep Batch: 611431

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec		RPD
	Result	Qualifier	Added	Result	Qualifier				Limits	RPD	Limit
Benzo[b]fluoranthene	<0.20		19.0	18.3		ug/L		96	46 - 122	8	30
Benzo[g,h,i]perylene	<0.20	*+ F1	19.0	24.9		ug/L		131	43 - 132	10	29
Benzo[k]fluoranthene	<0.20		19.0	20.2		ug/L		106	47 - 123	7	28
Chrysene	<0.20		19.0	19.2		ug/L		101	44 - 126	8	28
Dibenz(a,h)anthracene	<0.20		19.0	20.8		ug/L		109	45 - 130	10	28
Fluoranthene	<0.20		19.0	21.1		ug/L		111	51 - 126	9	29
Fluorene	<0.20		19.0	18.6		ug/L		98	45 - 120	8	29
Indeno[1,2,3-cd]pyrene	<0.20		19.0	21.4		ug/L		112	43 - 133	9	28
Naphthalene	<0.20		19.0	16.3		ug/L		86	29 - 120	10	35
Phenanthrene	<0.20		19.0	19.1		ug/L		100	48 - 120	6	29
Pyrene	<0.20		19.0	20.7		ug/L		109	42 - 138	9	28
2-Butoxyethanol	<4.1		19.0	6.99		ug/L		37	10 - 120	13	35
MSD MSD											
Surrogate	%Recovery	Qualifier	Limits								
Terphenyl-d14 (Surr)	92		43 - 136								
Phenol-d5 (Surr)	28		10 - 120								
Nitrobenzene-d5 (Surr)	90		40 - 120								
2-Fluorophenol (Surr)	45		10 - 127								
2-Fluorobiphenyl (Surr)	96		41 - 120								
2,4,6-Tribromophenol (Surr)	109		23 - 127								

QC Association Summary

Client: City & County of Honolulu
Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-93226-1

GC/MS Semi VOA

Prep Batch: 611431

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-93226-1	BWS2253-J1-AQ	Total/NA	Water	3510C	
MB 240-611431/1-A	Method Blank	Total/NA	Water	3510C	
LCS 240-611431/2-A	Lab Control Sample	Total/NA	Water	3510C	
380-93226-1 MS	BWS2253-J1-AQ	Total/NA	Water	3510C	
380-93226-1 MSD	BWS2253-J1-AQ	Total/NA	Water	3510C	

Analysis Batch: 611595

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-93226-1	BWS2253-J1-AQ	Total/NA	Water	8270E	611431
MB 240-611431/1-A	Method Blank	Total/NA	Water	8270E	611431
LCS 240-611431/2-A	Lab Control Sample	Total/NA	Water	8270E	611431
380-93226-1 MS	BWS2253-J1-AQ	Total/NA	Water	8270E	611431
380-93226-1 MSD	BWS2253-J1-AQ	Total/NA	Water	8270E	611431

Lab Chronicle

Client: City & County of Honolulu
Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-93226-1

Client Sample ID: BWS2253-J1-AQ

Lab Sample ID: 380-93226-1

Date Collected: 04/25/24 11:00

Matrix: Water

Date Received: 04/26/24 10:57

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3510C			611431	GBS	EET CLE	05/01/24 09:11
Total/NA	Analysis	8270E		1	611595	JMG	EET CLE	05/02/24 15:05

Laboratory References:

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16

Accreditation/Certification Summary

Client: City & County of Honolulu
Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-93226-1

Laboratory: Eurofins Cleveland

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	2927	02-28-25
Georgia	State	4062	02-27-25
Illinois	NELAP	200004	07-31-24
Iowa	State	421	06-01-25
Kentucky (WW)	State	KY98016	12-30-24
Minnesota	NELAP	039-999-348	12-31-24
New Jersey	NELAP	OH001	06-30-24
New York	NELAP	10975	04-02-25
Ohio VAP	State	ORELAP 4062	02-27-25
Oregon	NELAP	4062	02-27-25
Pennsylvania	NELAP	68-00340	08-31-24
Texas	NELAP	T104704517-22-19	08-31-24
USDA	US Federal Programs	P330-18-00281	01-05-27
Virginia	NELAP	460175	09-14-24
West Virginia DEP	State	210	12-31-24

Method Summary

Client: City & County of Honolulu
Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-93226-1

Method	Method Description	Protocol	Laboratory
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET CLE
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET CLE

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16

Sample Summary

Client: City & County of Honolulu
Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-93226-1

<u>Lab Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Collected</u>	<u>Received</u>
380-93226-1	BWS2253-J1-AQ	Water	04/25/24 11:00	04/26/24 10:57

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16

Chain of Custody Record



Client Information	Sampler: E. Kakonei/K. Gooding Phone: 858-205-0730 Company: Mr. Erwin Kawata City & County of Honolulu Address: 630 South Beretania Street City: Honolulu State, Zip: HI, 96843 Phone: 808-748-5091 (Tel) Email: ekawata@hbws.org Project Name: INTERA - Red-Hill Incident Site: Hawaii	Lab PM: Arada, Rachelle E-Mail: Rachelle.Arada@et.eurofins.com Carrier Tracking No(s): 380-5947-16846 1 State of Origin: Hawaii	COC No: 380-5947-16846 1 Page: Page 1 of 1 Job #: BWSHI C003.REDHILL	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:	M - Hexane N - None O - AsNaO2 P - Na2SO4 Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify)
Due Date Requested: _____ PWSID: _____					
TAT Requested (days): Standard Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					
PO #: C20525101 exp 05312023 WC #: _____ Project #: 38000861 SOW#: _____					
870E, Including 2-Butoxyethanol (Sub to Cleveland)					
Perform MS/MSD (Yes or No)					
Field Filtered Sample (Yes or No)					
Total Number of Containers					
Special Instructions/Note:					
Sample Identification BWS2253-J1-AQ BWS2253-J1-AQ (MS) BWS2253-J1-AQ (MSD)	Sample Date 4/25/24 ↓ ↓	Sample Time 1100 ↓ ↓	Sample Type (C=Comp, G=grab) G G G	Matrix (W=Water, S=Solid, O=Soil, BT=Tissue, AA=Air) Water Water Water	Preservation Code: N N N Total = 7 EEA POM Ship to EEA EEA 7 Cleveland
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: _____ Date: _____ Relinquished by: <i>Erwin Kawata</i> Date/Time: 4/25/24; 1300 Relinquished by: _____ Date/Time: _____ Relinquished by: _____ Date/Time: _____					
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					
Method of Shipment: Fedex Overnight; 273895693305 Received by: <i>Danni Ortiz</i> Date/Time: 4-26-24 10:57 Received by: _____ Date/Time: _____ Received by: _____ Date/Time: _____ Cooler Temperature(s) °C and Other Remarks: 4.3-0.2=4.1 (630A) <i>Wet EEA</i>					



Eurofins Eaton Analytical Pomona

941 Corporate Center Drive
 Pomona, CA 91768-2642
 Phone: 626-386-1100

Chain of Custody Record

23
24



Client Information (Sub Contract Lab)		Sampler:		Lab PM:		Carrier Tracking No(s):		COC No:									
Client Contact:		Arada, Rachelle		E-Mail:		State of Origin:		380-122024.1									
Shipping/Receiving		Phone:		Rachelle.Arada@et.eurofinsus.com		Hawaii		Page: Page 1 of 1									
Company: Eurofins Environment Testing North Cent				Accreditations Required (See note): State Hawaii				Job #: 380-93226-1									
Address: 180 S. Van Buren Avenue, Barberton State, Zip: OH, 44203		Due Date Requested: 5/16/2024		Analysis Requested						Preservation Codes:							
City: Barberton		TAT Requested (days):															
Phone: 330-497-9396(Tel) 330-497-0772(Fax)		PO #:															
Email:		WO #:															
Project Name: INTERA Red-Hill-Incident		Project #: 38000861															
Site: Honolulu BWS Sites		SSOW#:		Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) 8270E23510C_LVI (MOD) PAH Analyte List						Other: E179 Special Instructions/Note:							
Sample Identification - Client ID (Lab ID)		Sample Date										Sample Time		Sample Type (C=Comp, G=grab)		Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	
BWS2253-J1-AQ (380-93226-1)		4/25/24		11:00 Hawaiian		Water		Water									
BWS2253-J1-AQ (380-93226-1MS)		4/25/24		11:00 Hawaiian		MS		Water									
BWS2253-J1-AQ (380-93226-1MSD)		4/25/24		11:00 Hawaiian		MSD		Water									
<p>Note: Since laboratory accreditations are subject to change, Eurofins Eaton Analytical, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Eaton Analytical, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Eaton Analytical, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Eaton Analytical, LLC.</p>																	
Possible Hazard Identification					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)												
Unconfirmed					<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)		Primary Deliverable Rank: 2		Special Instructions/QC Requirements:													
Empty Kit Relinquished by		Date:		Time:		Method of Shipment:											
Relinquished by: <i>Raul Ariza</i>		Date/Time: <i>4/29/24 16:20</i>		Company:		Received by: <i>J McGROSKO</i>		Date/Time: <i>04/30/24 09:30</i>									
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:									
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:									
Custody Seals Intact: Δ Yes Δ No		Custody Seal No.			Cooler Temperature(s) °C and Other Remarks:												

Eurofins - Cleveland Sample Receipt Form/Narrative Login # : _____

Barberton Facility

Client Eurofins Eaton Site Name _____

Cooler Received on 04/30/24 Opened on 04/30/24

FedEx 1st Grd Exp UPS FAS Waypoint Client Drop Off Eurofins Courier Other Cooler unpacked by: J Moore

Receipt After-hours Drop-off Date/Time _____ Storage Location _____

Eurofins Cooler # FC Foam Box _____ Client Cooler Box Other _____
 Packing material used Bubble Wrap _____ Foam Plastic Bag None Other _____
 COOLANT Water Blue Ice _____ Dry Ice _____ Water _____ None _____
 1 Cooler temperature upon receipt See Multiple Cooler Form

IR GUN # 17 (CF T2 °C) Observed Cooler Temp. 22 °C Corrected Cooler Temp. 24 °C

2 Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 2
 -Were the seals on the outside of the cooler(s) signed & dated? Yes No NA
 -Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No NA
 -Were tamper/custody seals intact and uncompromised? Yes No NA

Tests that are not checked for pH by Receiving:
VOAs
Oil and Grease
TOC

3 Shippers' packing slip attached to the cooler(s)? Yes No
 4 Did custody papers accompany the sample(s)? Yes No
 5 Were the custody papers relinquished & signed in the appropriate place? Yes No
 6 Was/were the person(s) who collected the samples clearly identified on the COC? Yes No
 7 Did all bottles arrive in good condition (Unbroken)? Yes No
 8 Could all bottle labels (ID/Date/Time) be reconciled with the COC? Yes No
 9 For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)? Yes No
 10 Were correct bottle(s) used for the test(s) indicated? Yes No
 11 Sufficient quantity received to perform indicated analyses? Yes No
 12. Are these work share samples and all listed on the COC? Yes No
 If yes, Questions 13-17 have been checked at the originating laboratory
 13 Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC439975
 14 Were VOAs on the COC? Yes No
 15 Were air bubbles >6 mm in any VOA vials? Yes No NA
 16 Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____
 17 Was a LL Hg or Me Hg trip blank present? Yes No

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____
 Concerning _____

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES additional next page Samples processed by _____

19 SAMPLE CONDITION
 Sample(s) _____ were received after the recommended holding time had expired.
 Sample(s) _____ were received in a broken container
 Sample(s) _____ were received with bubble >6 mm in diameter (Notify PM)

20 SAMPLE PRESERVATION
 Sample(s) _____ were further preserved in the laboratory
 Time preserved _____ Preservative(s) added/Lot number(s) _____
 VOA Sample Preservation Date/Time VOAs Frozen _____

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16

TELEVA®

5/3/2024

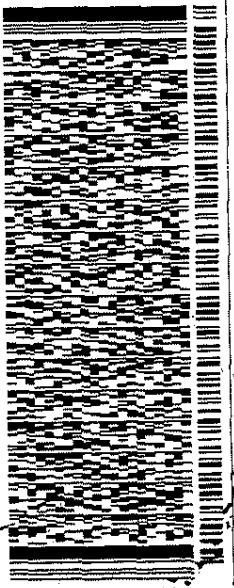
Do not lift using this tag.

ORIGIN IDIONTRA (626) 386-1151
 MANUEL A VASQUEZ
 EUROFINS EATOR ANALYTICAL
 941 CORPWAY CENTER DRIVE
 POMONA, CA 91768
 UNITED STATES

SHIP DATE 29APR24
 ACTWT 55 40 LB
 CAD 0894108/CATE3755
 DIMS 24X14X14 IN
 BILL SENDER

TO SHIPPING/RECEIVING
EUROFINS ENVIRONMENT TESTING NORTH
180 S. VAN BUREN AVENUE

BARBERTON OH 44203
 (330) 497-9396 REF 3380-00505
 PO. #A DEPT SUBOUT/SLDG-IN



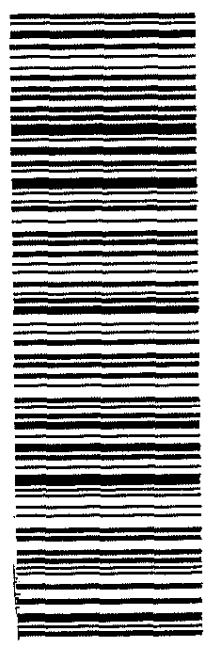
TRK# 7321 2797 6632
 0201

TUE - 30 APR 10:03
PRIORITY OVERNIG

NX CAKA

OH-US C 442

Part # 156697-434 RRDB EXP 11/24



Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-93226-1

Login Number: 93226

List Source: Eurofins Eaton Analytical Pomona

List Number: 1

Creator: Sanchez Velasquez, Gustavo

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
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	
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	
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").	True	
Samples do not require splitting or compositing.	True	
Container provided by EEA	True	

