

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 6/19/2025 2:43:46 PM

JOB DESCRIPTION

RED-HILL
Weekly

JOB NUMBER

380-153961-1

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



Authorized for release by
Maria Lopez, Project Manager
Maria.Lopez@et.eurofinsus.com
(626)386-1100

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Definitions/Glossary

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-153961-1
SDG: Weekly

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA TICs

Qualifier	Qualifier Description
J	Indicates an Estimated Value for TICs
N	Presumptive evidence of material.
T	Result is a tentatively identified compound (TIC) and an estimated value.

GC VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	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: RED-HILL

Job ID: 380-153961-1

Job ID: 380-153961-1

Eurofins Eaton Analytical Pomona

Job Narrative 380-153961-1

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 and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided 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 samples were received on 6/5/2025 9:34 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 1.4°C and 1.8°C.

GC/MS Semi VOA

Method 625.1: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 570-581308. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch. 625 S.I.M

Method 625.1_SIM: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 570-581308. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch. 625 S.I.M

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

Gasoline Range Organics

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

Diesel Range Organics

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

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Detection Summary

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-153961-1
SDG: Weekly

Client Sample ID: Ka'amilo Wells Pump 1

Lab Sample ID: 380-153961-1

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Dieldrin	0.069		0.0099	ug/L	1		525.2	Total/NA
Heptachlor epoxide (isomer B)	0.012		0.0099	ug/L	1		525.2	Total/NA

Client Sample ID: TB: Ka'amilo Well Pump 1

Lab Sample ID: 380-153961-2

No Detections.

Client Sample ID: Ka'amilo Wells Pump 2

Lab Sample ID: 380-153961-3

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Dieldrin	0.060		0.0098	ug/L	1		525.2	Total/NA

Client Sample ID: TB: Ka'amilo Wells Pump 2

Lab Sample ID: 380-153961-4

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Eaton Analytical Pomona

Client Sample Results

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-153961-1
SDG: Weekly

Client Sample ID: Ka'amilo Wells Pump 1

Lab Sample ID: 380-153961-1

Date Collected: 06/03/25 09:55

Matrix: Water

Date Received: 06/05/25 09:34

Method: EPA 525.2 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.099		0.099	ug/L		06/06/25 07:45	06/09/25 14:34	1
2,4'-DDD	<0.099		0.099	ug/L		06/06/25 07:45	06/09/25 14:34	1
2,4'-DDE	<0.099		0.099	ug/L		06/06/25 07:45	06/09/25 14:34	1
2,4'-DDT	<0.099		0.099	ug/L		06/06/25 07:45	06/09/25 14:34	1
2,4-Dinitrotoluene	<0.099		0.099	ug/L		06/06/25 07:45	06/09/25 14:34	1
2,6-Dinitrotoluene	<0.099		0.099	ug/L		06/06/25 07:45	06/09/25 14:34	1
2-Methylnaphthalene	<0.099		0.099	ug/L		06/06/25 07:45	06/09/25 14:34	1
4,4'-DDD	<0.099		0.099	ug/L		06/06/25 07:45	06/09/25 14:34	1
4,4'-DDE	<0.099		0.099	ug/L		06/06/25 07:45	06/09/25 14:34	1
4,4'-DDT	<0.099		0.099	ug/L		06/06/25 07:45	06/09/25 14:34	1
Acenaphthene	<0.099		0.099	ug/L		06/06/25 07:45	06/09/25 14:34	1
Acenaphthylene	<0.099		0.099	ug/L		06/06/25 07:45	06/09/25 14:34	1
Acetochlor	<0.099		0.099	ug/L		06/06/25 07:45	06/09/25 14:34	1
Alachlor	<0.050		0.050	ug/L		06/06/25 07:45	06/09/25 14:34	1
alpha-BHC	<0.099		0.099	ug/L		06/06/25 07:45	06/09/25 14:34	1
alpha-Chlordane	<0.050		0.050	ug/L		06/06/25 07:45	06/09/25 14:34	1
Anthracene	<0.020		0.020	ug/L		06/06/25 07:45	06/09/25 14:34	1
Atrazine	<0.050		0.050	ug/L		06/06/25 07:45	06/09/25 14:34	1
Benz(a)anthracene	<0.050		0.050	ug/L		06/06/25 07:45	06/09/25 14:34	1
Benzo[a]pyrene	<0.020		0.020	ug/L		06/06/25 07:45	06/09/25 14:34	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		06/06/25 07:45	06/09/25 14:34	1
Benzo[g,h,i]perylene	<0.050		0.050	ug/L		06/06/25 07:45	06/09/25 14:34	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		06/06/25 07:45	06/09/25 14:34	1
beta-BHC	<0.099		0.099	ug/L		06/06/25 07:45	06/09/25 14:34	1
Bis(2-ethylhexyl) phthalate	<0.59		0.59	ug/L		06/06/25 07:45	06/09/25 14:34	1
Bromacil	<0.099		0.099	ug/L		06/06/25 07:45	06/09/25 14:34	1
Butachlor	<0.050		0.050	ug/L		06/06/25 07:45	06/09/25 14:34	1
Butylbenzylphthalate	<0.50		0.50	ug/L		06/06/25 07:45	06/09/25 14:34	1
Chlorobenzilate	<0.099		0.099	ug/L		06/06/25 07:45	06/09/25 14:34	1
Chloroneb	<0.099		0.099	ug/L		06/06/25 07:45	06/09/25 14:34	1
Chlorothalonil (Draconil, Bravo)	<0.099		0.099	ug/L		06/06/25 07:45	06/09/25 14:34	1
Chlorpyrifos	<0.050		0.050	ug/L		06/06/25 07:45	06/09/25 14:34	1
Chrysene	<0.020		0.020	ug/L		06/06/25 07:45	06/09/25 14:34	1
delta-BHC	<0.099		0.099	ug/L		06/06/25 07:45	06/09/25 14:34	1
Di(2-ethylhexyl)adipate	<0.59		0.59	ug/L		06/06/25 07:45	06/09/25 14:34	1
Dibenz(a,h)anthracene	<0.050		0.050	ug/L		06/06/25 07:45	06/09/25 14:34	1
Diclorvos (DDVP)	<0.050		0.050	ug/L		06/06/25 07:45	06/09/25 14:34	1
Dieldrin	0.069		0.0099	ug/L		06/06/25 07:45	06/09/25 14:34	1
Diethylphthalate	<0.50		0.50	ug/L		06/06/25 07:45	06/09/25 14:34	1
Dimethylphthalate	<0.50		0.50	ug/L		06/06/25 07:45	06/09/25 14:34	1
Di-n-butyl phthalate	<0.99		0.99	ug/L		06/06/25 07:45	06/09/25 14:34	1
Di-n-octyl phthalate	<0.099		0.099	ug/L		06/06/25 07:45	06/09/25 14:34	1
Endosulfan I (Alpha)	<0.099		0.099	ug/L		06/06/25 07:45	06/09/25 14:34	1
Endosulfan II (Beta)	<0.099		0.099	ug/L		06/06/25 07:45	06/09/25 14:34	1
Endosulfan sulfate	<0.099		0.099	ug/L		06/06/25 07:45	06/09/25 14:34	1
Endrin	<0.0099		0.0099	ug/L		06/06/25 07:45	06/09/25 14:34	1
Endrin aldehyde	<0.099		0.099	ug/L		06/06/25 07:45	06/09/25 14:34	1
EPTC	<0.099		0.099	ug/L		06/06/25 07:45	06/09/25 14:34	1
Fluoranthene	<0.099		0.099	ug/L		06/06/25 07:45	06/09/25 14:34	1

Eurofins Eaton Analytical Pomona

Client Sample Results

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-153961-1
SDG: Weekly

Client Sample ID: Ka'amilo Wells Pump 1

Lab Sample ID: 380-153961-1

Date Collected: 06/03/25 09:55

Matrix: Water

Date Received: 06/05/25 09:34

Method: EPA 525.2 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	<0.050		0.050	ug/L		06/06/25 07:45	06/09/25 14:34	1
gamma-Chlordane	<0.050		0.050	ug/L		06/06/25 07:45	06/09/25 14:34	1
Heptachlor	<0.0099		0.0099	ug/L		06/06/25 07:45	06/09/25 14:34	1
Heptachlor epoxide (isomer B)	0.012		0.0099	ug/L		06/06/25 07:45	06/09/25 14:34	1
Hexachlorobenzene	<0.050		0.050	ug/L		06/06/25 07:45	06/09/25 14:34	1
Hexachlorocyclopentadiene	<0.050		0.050	ug/L		06/06/25 07:45	06/09/25 14:34	1
Indeno[1,2,3-cd]pyrene	<0.050		0.050	ug/L		06/06/25 07:45	06/09/25 14:34	1
Isophorone	<0.099		0.099	ug/L		06/06/25 07:45	06/09/25 14:34	1
Lindane	<0.0099		0.0099	ug/L		06/06/25 07:45	06/09/25 14:34	1
Malathion	<0.099		0.099	ug/L		06/06/25 07:45	06/09/25 14:34	1
Methoxychlor	<0.050		0.050	ug/L		06/06/25 07:45	06/09/25 14:34	1
Metolachlor	<0.050		0.050	ug/L		06/06/25 07:45	06/09/25 14:34	1
Molinate	<0.099		0.099	ug/L		06/06/25 07:45	06/09/25 14:34	1
Naphthalene	<0.099		0.099	ug/L		06/06/25 07:45	06/09/25 14:34	1
Parathion	<0.099		0.099	ug/L		06/06/25 07:45	06/09/25 14:34	1
Pendimethalin (Penoxaline)	<0.099		0.099	ug/L		06/06/25 07:45	06/09/25 14:34	1
Phenanthrene	<0.040		0.040	ug/L		06/06/25 07:45	06/09/25 14:34	1
Propachlor	<0.050		0.050	ug/L		06/06/25 07:45	06/09/25 14:34	1
Pyrene	<0.050		0.050	ug/L		06/06/25 07:45	06/09/25 14:34	1
Simazine	<0.050		0.050	ug/L		06/06/25 07:45	06/09/25 14:34	1
Terbacil	<0.099		0.099	ug/L		06/06/25 07:45	06/09/25 14:34	1
Terbutylazine	<0.099		0.099	ug/L		06/06/25 07:45	06/09/25 14:34	1
Thiobencarb	<0.099		0.099	ug/L		06/06/25 07:45	06/09/25 14:34	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		06/06/25 07:45	06/09/25 14:34	1
trans-Nonachlor	<0.050		0.050	ug/L		06/06/25 07:45	06/09/25 14:34	1
Trifluralin	<0.099		0.099	ug/L		06/06/25 07:45	06/09/25 14:34	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	06/06/25 07:45	06/09/25 14:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	99		70 - 130	06/06/25 07:45	06/09/25 14:34	1
Perylene-d12	93		70 - 130	06/06/25 07:45	06/09/25 14:34	1
Triphenylphosphate	103		70 - 130	06/06/25 07:45	06/09/25 14:34	1

Method: EPA 625.1 SIM - Semivolatile Organic Compounds GC/MS (SIM)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.20		0.20	ug/L		06/09/25 08:10	06/12/25 23:14	1
2-Methylnaphthalene	<0.20		0.20	ug/L		06/09/25 08:10	06/12/25 23:14	1
Acenaphthene	<0.20		0.20	ug/L		06/09/25 08:10	06/12/25 23:14	1
Acenaphthylene	<0.20		0.20	ug/L		06/09/25 08:10	06/12/25 23:14	1
Anthracene	<0.20		0.20	ug/L		06/09/25 08:10	06/12/25 23:14	1
Benzo[a]anthracene	<0.20		0.20	ug/L		06/09/25 08:10	06/12/25 23:14	1
Benzo[a]pyrene	<0.20		0.20	ug/L		06/09/25 08:10	06/12/25 23:14	1
Benzo[b]fluoranthene	<0.20		0.20	ug/L		06/09/25 08:10	06/12/25 23:14	1
Benzo[g,h,i]perylene	<0.20		0.20	ug/L		06/09/25 08:10	06/12/25 23:14	1
Benzo[k]fluoranthene	<0.20		0.20	ug/L		06/09/25 08:10	06/12/25 23:14	1
Chrysene	<0.20		0.20	ug/L		06/09/25 08:10	06/12/25 23:14	1
Dibenz(a,h)anthracene	<0.20		0.20	ug/L		06/09/25 08:10	06/12/25 23:14	1
Fluoranthene	<0.20		0.20	ug/L		06/09/25 08:10	06/12/25 23:14	1

Eurofins Eaton Analytical Pomona

Client Sample Results

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-153961-1
SDG: Weekly

Client Sample ID: Ka'amilo Wells Pump 1

Lab Sample ID: 380-153961-1

Date Collected: 06/03/25 09:55

Matrix: Water

Date Received: 06/05/25 09:34

Method: EPA 625.1 SIM - Semivolatile Organic Compounds GC/MS (SIM) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	<0.20		0.20	ug/L		06/09/25 08:10	06/12/25 23:14	1
Indeno[1,2,3-cd]pyrene	<0.20		0.20	ug/L		06/09/25 08:10	06/12/25 23:14	1
Naphthalene	<0.20		0.20	ug/L		06/09/25 08:10	06/12/25 23:14	1
Phenanthrene	<0.20		0.20	ug/L		06/09/25 08:10	06/12/25 23:14	1
Pyrene	<0.20		0.20	ug/L		06/09/25 08:10	06/12/25 23:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	78		28 - 127	06/09/25 08:10	06/12/25 23:14	1
2-Fluorobiphenyl (Surr)	67		31 - 120	06/09/25 08:10	06/12/25 23:14	1
2-Fluorophenol (Surr)	47		17 - 120	06/09/25 08:10	06/12/25 23:14	1
Nitrobenzene-d5 (Surr)	75		27 - 120	06/09/25 08:10	06/12/25 23:14	1
Phenol-d6 (Surr)	31		10 - 120	06/09/25 08:10	06/12/25 23:14	1
p-Terphenyl-d14 (Surr)	79		45 - 120	06/09/25 08:10	06/12/25 23:14	1

Method: EPA 625.1 - Semivolatile Organic Compounds (GC/MS)

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	06/09/25 08:10	06/18/25 09:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	53		33 - 139	06/09/25 08:10	06/18/25 09:13	1
2-Fluorobiphenyl (Surr)	65		33 - 126	06/09/25 08:10	06/18/25 09:13	1
2-Fluorophenol (Surr)	42		12 - 120	06/09/25 08:10	06/18/25 09:13	1
Nitrobenzene-d5 (Surr)	65		36 - 120	06/09/25 08:10	06/18/25 09:13	1
Phenol-d6 (Surr)	22		10 - 120	06/09/25 08:10	06/18/25 09:13	1
p-Terphenyl-d14 (Surr)	62		47 - 131	06/09/25 08:10	06/18/25 09:13	1

Method: SW846 8015B GRO LL - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	<10		10	ug/L			06/11/25 20:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		38 - 134		06/11/25 20:21	1

Method: SW846 8015B - Diesel Range Organics (DRO) (GC) Low Level

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	<26		26	ug/L		06/08/25 09:03	06/16/25 23:16	1
Motor Oil Range Organics [C24-C36]	<26		26	ug/L		06/08/25 09:03	06/16/25 23:16	1
C8-C18	<26		26	ug/L		06/08/25 09:03	06/16/25 23:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	105		60 - 130	06/08/25 09:03	06/16/25 23:16	1

Client Sample ID: TB: Ka'amilo Well Pump 1

Lab Sample ID: 380-153961-2

Date Collected: 06/03/25 09:55

Matrix: Water

Date Received: 06/05/25 09:34

Method: SW846 8015B GRO LL - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	<10		10	ug/L			06/11/25 14:47	1

Eurofins Eaton Analytical Pomona

Client Sample Results

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-153961-1
SDG: Weekly

Client Sample ID: TB: Ka'amilo Well Pump 1

Lab Sample ID: 380-153961-2

Date Collected: 06/03/25 09:55

Matrix: Water

Date Received: 06/05/25 09:34

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		38 - 134		06/11/25 14:47	1

Client Sample ID: Ka'amilo Wells Pump 2

Lab Sample ID: 380-153961-3

Date Collected: 06/03/25 10:35

Matrix: Water

Date Received: 06/05/25 09:34

Method: EPA 525.2 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.098		0.098	ug/L		06/06/25 07:45	06/09/25 14:54	1
2,4'-DDD	<0.098		0.098	ug/L		06/06/25 07:45	06/09/25 14:54	1
2,4'-DDE	<0.098		0.098	ug/L		06/06/25 07:45	06/09/25 14:54	1
2,4'-DDT	<0.098		0.098	ug/L		06/06/25 07:45	06/09/25 14:54	1
2,4-Dinitrotoluene	<0.098		0.098	ug/L		06/06/25 07:45	06/09/25 14:54	1
2,6-Dinitrotoluene	<0.098		0.098	ug/L		06/06/25 07:45	06/09/25 14:54	1
2-Methylnaphthalene	<0.098		0.098	ug/L		06/06/25 07:45	06/09/25 14:54	1
4,4'-DDD	<0.098		0.098	ug/L		06/06/25 07:45	06/09/25 14:54	1
4,4'-DDE	<0.098		0.098	ug/L		06/06/25 07:45	06/09/25 14:54	1
4,4'-DDT	<0.098		0.098	ug/L		06/06/25 07:45	06/09/25 14:54	1
Acenaphthene	<0.098		0.098	ug/L		06/06/25 07:45	06/09/25 14:54	1
Acenaphthylene	<0.098		0.098	ug/L		06/06/25 07:45	06/09/25 14:54	1
Acetochlor	<0.098		0.098	ug/L		06/06/25 07:45	06/09/25 14:54	1
Alachlor	<0.049		0.049	ug/L		06/06/25 07:45	06/09/25 14:54	1
alpha-BHC	<0.098		0.098	ug/L		06/06/25 07:45	06/09/25 14:54	1
alpha-Chlordane	<0.049		0.049	ug/L		06/06/25 07:45	06/09/25 14:54	1
Anthracene	<0.020		0.020	ug/L		06/06/25 07:45	06/09/25 14:54	1
Atrazine	<0.049		0.049	ug/L		06/06/25 07:45	06/09/25 14:54	1
Benz(a)anthracene	<0.049		0.049	ug/L		06/06/25 07:45	06/09/25 14:54	1
Benzo[a]pyrene	<0.020		0.020	ug/L		06/06/25 07:45	06/09/25 14:54	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		06/06/25 07:45	06/09/25 14:54	1
Benzo[g,h,i]perylene	<0.049		0.049	ug/L		06/06/25 07:45	06/09/25 14:54	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		06/06/25 07:45	06/09/25 14:54	1
beta-BHC	<0.098		0.098	ug/L		06/06/25 07:45	06/09/25 14:54	1
Bis(2-ethylhexyl) phthalate	<0.59		0.59	ug/L		06/06/25 07:45	06/09/25 14:54	1
Bromacil	<0.098		0.098	ug/L		06/06/25 07:45	06/09/25 14:54	1
Butachlor	<0.049		0.049	ug/L		06/06/25 07:45	06/09/25 14:54	1
Butylbenzylphthalate	<0.49		0.49	ug/L		06/06/25 07:45	06/09/25 14:54	1
Chlorobenzilate	<0.098		0.098	ug/L		06/06/25 07:45	06/09/25 14:54	1
Chloroneb	<0.098		0.098	ug/L		06/06/25 07:45	06/09/25 14:54	1
Chlorothalonil (Draconil, Bravo)	<0.098		0.098	ug/L		06/06/25 07:45	06/09/25 14:54	1
Chlorpyrifos	<0.049		0.049	ug/L		06/06/25 07:45	06/09/25 14:54	1
Chrysene	<0.020		0.020	ug/L		06/06/25 07:45	06/09/25 14:54	1
delta-BHC	<0.098		0.098	ug/L		06/06/25 07:45	06/09/25 14:54	1
Di(2-ethylhexyl)adipate	<0.59		0.59	ug/L		06/06/25 07:45	06/09/25 14:54	1
Dibenz(a,h)anthracene	<0.049		0.049	ug/L		06/06/25 07:45	06/09/25 14:54	1
Diclorvos (DDVP)	<0.049		0.049	ug/L		06/06/25 07:45	06/09/25 14:54	1
Dieldrin	0.060		0.0098	ug/L		06/06/25 07:45	06/09/25 14:54	1
Diethylphthalate	<0.49		0.49	ug/L		06/06/25 07:45	06/09/25 14:54	1
Dimethylphthalate	<0.49		0.49	ug/L		06/06/25 07:45	06/09/25 14:54	1
Di-n-butyl phthalate	<0.98		0.98	ug/L		06/06/25 07:45	06/09/25 14:54	1
Di-n-octyl phthalate	<0.098		0.098	ug/L		06/06/25 07:45	06/09/25 14:54	1

Eurofins Eaton Analytical Pomona

Client Sample Results

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-153961-1
SDG: Weekly

Client Sample ID: Ka'amilo Wells Pump 2

Lab Sample ID: 380-153961-3

Date Collected: 06/03/25 10:35

Matrix: Water

Date Received: 06/05/25 09:34

Method: EPA 525.2 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Endosulfan I (Alpha)	<0.098		0.098	ug/L		06/06/25 07:45	06/09/25 14:54	1
Endosulfan II (Beta)	<0.098		0.098	ug/L		06/06/25 07:45	06/09/25 14:54	1
Endosulfan sulfate	<0.098		0.098	ug/L		06/06/25 07:45	06/09/25 14:54	1
Endrin	<0.0098		0.0098	ug/L		06/06/25 07:45	06/09/25 14:54	1
Endrin aldehyde	<0.098		0.098	ug/L		06/06/25 07:45	06/09/25 14:54	1
EPTC	<0.098		0.098	ug/L		06/06/25 07:45	06/09/25 14:54	1
Fluoranthene	<0.098		0.098	ug/L		06/06/25 07:45	06/09/25 14:54	1
Fluorene	<0.049		0.049	ug/L		06/06/25 07:45	06/09/25 14:54	1
gamma-Chlordane	<0.049		0.049	ug/L		06/06/25 07:45	06/09/25 14:54	1
Heptachlor	<0.0098		0.0098	ug/L		06/06/25 07:45	06/09/25 14:54	1
Heptachlor epoxide (isomer B)	<0.0098		0.0098	ug/L		06/06/25 07:45	06/09/25 14:54	1
Hexachlorobenzene	<0.049		0.049	ug/L		06/06/25 07:45	06/09/25 14:54	1
Hexachlorocyclopentadiene	<0.049		0.049	ug/L		06/06/25 07:45	06/09/25 14:54	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049	ug/L		06/06/25 07:45	06/09/25 14:54	1
Isophorone	<0.098		0.098	ug/L		06/06/25 07:45	06/09/25 14:54	1
Lindane	<0.0098		0.0098	ug/L		06/06/25 07:45	06/09/25 14:54	1
Malathion	<0.098		0.098	ug/L		06/06/25 07:45	06/09/25 14:54	1
Methoxychlor	<0.049		0.049	ug/L		06/06/25 07:45	06/09/25 14:54	1
Metolachlor	<0.049		0.049	ug/L		06/06/25 07:45	06/09/25 14:54	1
Molinate	<0.098		0.098	ug/L		06/06/25 07:45	06/09/25 14:54	1
Naphthalene	<0.098		0.098	ug/L		06/06/25 07:45	06/09/25 14:54	1
Parathion	<0.098		0.098	ug/L		06/06/25 07:45	06/09/25 14:54	1
Pendimethalin (Penoxaline)	<0.098		0.098	ug/L		06/06/25 07:45	06/09/25 14:54	1
Phenanthrene	<0.039		0.039	ug/L		06/06/25 07:45	06/09/25 14:54	1
Propachlor	<0.049		0.049	ug/L		06/06/25 07:45	06/09/25 14:54	1
Pyrene	<0.049		0.049	ug/L		06/06/25 07:45	06/09/25 14:54	1
Simazine	<0.049		0.049	ug/L		06/06/25 07:45	06/09/25 14:54	1
Terbacil	<0.098		0.098	ug/L		06/06/25 07:45	06/09/25 14:54	1
Terbutylazine	<0.098		0.098	ug/L		06/06/25 07:45	06/09/25 14:54	1
Thiobencarb	<0.098		0.098	ug/L		06/06/25 07:45	06/09/25 14:54	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		06/06/25 07:45	06/09/25 14:54	1
trans-Nonachlor	<0.049		0.049	ug/L		06/06/25 07:45	06/09/25 14:54	1
Trifluralin	<0.098		0.098	ug/L		06/06/25 07:45	06/09/25 14:54	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	06/06/25 07:45	06/09/25 14:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	99		70 - 130	06/06/25 07:45	06/09/25 14:54	1
Perylene-d12	89		70 - 130	06/06/25 07:45	06/09/25 14:54	1
Triphenylphosphate	108		70 - 130	06/06/25 07:45	06/09/25 14:54	1

Method: EPA 625.1 SIM - Semivolatile Organic Compounds GC/MS (SIM)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.19		0.19	ug/L		06/09/25 08:10	06/12/25 23:36	1
2-Methylnaphthalene	<0.19		0.19	ug/L		06/09/25 08:10	06/12/25 23:36	1
Acenaphthene	<0.19		0.19	ug/L		06/09/25 08:10	06/12/25 23:36	1
Acenaphthylene	<0.19		0.19	ug/L		06/09/25 08:10	06/12/25 23:36	1
Anthracene	<0.19		0.19	ug/L		06/09/25 08:10	06/12/25 23:36	1
Benzo[a]anthracene	<0.19		0.19	ug/L		06/09/25 08:10	06/12/25 23:36	1

Eurofins Eaton Analytical Pomona

Client Sample Results

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-153961-1
SDG: Weekly

Client Sample ID: Ka'amilo Wells Pump 2

Lab Sample ID: 380-153961-3

Date Collected: 06/03/25 10:35

Matrix: Water

Date Received: 06/05/25 09:34

Method: EPA 625.1 SIM - Semivolatile Organic Compounds GC/MS (SIM) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.19		0.19	ug/L		06/09/25 08:10	06/12/25 23:36	1
Benzo[b]fluoranthene	<0.19		0.19	ug/L		06/09/25 08:10	06/12/25 23:36	1
Benzo[g,h,i]perylene	<0.19		0.19	ug/L		06/09/25 08:10	06/12/25 23:36	1
Benzo[k]fluoranthene	<0.19		0.19	ug/L		06/09/25 08:10	06/12/25 23:36	1
Chrysene	<0.19		0.19	ug/L		06/09/25 08:10	06/12/25 23:36	1
Dibenz(a,h)anthracene	<0.19		0.19	ug/L		06/09/25 08:10	06/12/25 23:36	1
Fluoranthene	<0.19		0.19	ug/L		06/09/25 08:10	06/12/25 23:36	1
Fluorene	<0.19		0.19	ug/L		06/09/25 08:10	06/12/25 23:36	1
Indeno[1,2,3-cd]pyrene	<0.19		0.19	ug/L		06/09/25 08:10	06/12/25 23:36	1
Naphthalene	<0.19		0.19	ug/L		06/09/25 08:10	06/12/25 23:36	1
Phenanthrene	<0.19		0.19	ug/L		06/09/25 08:10	06/12/25 23:36	1
Pyrene	<0.19		0.19	ug/L		06/09/25 08:10	06/12/25 23:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	90		28 - 127	06/09/25 08:10	06/12/25 23:36	1
2-Fluorobiphenyl (Surr)	78		31 - 120	06/09/25 08:10	06/12/25 23:36	1
2-Fluorophenol (Surr)	55		17 - 120	06/09/25 08:10	06/12/25 23:36	1
Nitrobenzene-d5 (Surr)	85		27 - 120	06/09/25 08:10	06/12/25 23:36	1
Phenol-d6 (Surr)	36		10 - 120	06/09/25 08:10	06/12/25 23:36	1
p-Terphenyl-d14 (Surr)	83		45 - 120	06/09/25 08:10	06/12/25 23:36	1

Method: EPA 625.1 - Semivolatile Organic Compounds (GC/MS)

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	06/09/25 08:10	06/18/25 09:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	57		33 - 139	06/09/25 08:10	06/18/25 09:37	1
2-Fluorobiphenyl (Surr)	74		33 - 126	06/09/25 08:10	06/18/25 09:37	1
2-Fluorophenol (Surr)	48		12 - 120	06/09/25 08:10	06/18/25 09:37	1
Nitrobenzene-d5 (Surr)	75		36 - 120	06/09/25 08:10	06/18/25 09:37	1
Phenol-d6 (Surr)	24		10 - 120	06/09/25 08:10	06/18/25 09:37	1
p-Terphenyl-d14 (Surr)	69		47 - 131	06/09/25 08:10	06/18/25 09:37	1

Method: SW846 8015B GRO LL - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	<10		10	ug/L			06/11/25 21:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		38 - 134		06/11/25 21:10	1

Method: SW846 8015B - Diesel Range Organics (DRO) (GC) Low Level

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	<26		26	ug/L		06/08/25 09:03	06/16/25 23:37	1
Motor Oil Range Organics [C24-C36]	<26		26	ug/L		06/08/25 09:03	06/16/25 23:37	1
C8-C18	<26		26	ug/L		06/08/25 09:03	06/16/25 23:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	110		60 - 130	06/08/25 09:03	06/16/25 23:37	1

Eurofins Eaton Analytical Pomona

Client Sample Results

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-153961-1
SDG: Weekly

Client Sample ID: TB: Ka'amilo Wells Pump 2
Date Collected: 06/03/25 10:35
Date Received: 06/05/25 09:34

Lab Sample ID: 380-153961-4
Matrix: Water

Method: SW846 8015B GRO LL - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	<10		10	ug/L			06/11/25 15:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		38 - 134				06/11/25 15:12	1

Action Limit Summary

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-153961-1
SDG: Weekly

Client Sample ID: Ka'amilo Wells Pump 1

Lab Sample ID: 380-153961-1

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	RL	Method	Prep Type
				Limit			
Alachlor	<0.050		ug/L	2	0.050	525.2	Total/NA
Atrazine	<0.050		ug/L	3	0.050	525.2	Total/NA
Benzo[a]pyrene	<0.020		ug/L	0.2	0.020	525.2	Total/NA
Bis(2-ethylhexyl) phthalate	<0.59		ug/L	6	0.59	525.2	Total/NA
Di(2-ethylhexyl)adipate	<0.59		ug/L	400	0.59	525.2	Total/NA
Endrin	<0.0099		ug/L	2	0.0099	525.2	Total/NA
Heptachlor	<0.0099		ug/L	0.4	0.0099	525.2	Total/NA
Heptachlor epoxide (isomer B)	0.012		ug/L	0.2	0.0099	525.2	Total/NA
Hexachlorobenzene	<0.050		ug/L	1	0.050	525.2	Total/NA
Hexachlorocyclopentadiene	<0.050		ug/L	50	0.050	525.2	Total/NA
Lindane	<0.0099		ug/L	0.2	0.0099	525.2	Total/NA
Methoxychlor	<0.050		ug/L	40	0.050	525.2	Total/NA
Simazine	<0.050		ug/L	4	0.050	525.2	Total/NA
Benzo[a]pyrene	<0.20		ug/L	0.2	0.20	625.1 SIM	Total/NA

Client Sample ID: Ka'amilo Wells Pump 2

Lab Sample ID: 380-153961-3

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	RL	Method	Prep Type
				Limit			
Alachlor	<0.049		ug/L	2	0.049	525.2	Total/NA
Atrazine	<0.049		ug/L	3	0.049	525.2	Total/NA
Benzo[a]pyrene	<0.020		ug/L	0.2	0.020	525.2	Total/NA
Bis(2-ethylhexyl) phthalate	<0.59		ug/L	6	0.59	525.2	Total/NA
Di(2-ethylhexyl)adipate	<0.59		ug/L	400	0.59	525.2	Total/NA
Endrin	<0.0098		ug/L	2	0.0098	525.2	Total/NA
Heptachlor	<0.0098		ug/L	0.4	0.0098	525.2	Total/NA
Heptachlor epoxide (isomer B)	<0.0098		ug/L	0.2	0.0098	525.2	Total/NA
Hexachlorobenzene	<0.049		ug/L	1	0.049	525.2	Total/NA
Hexachlorocyclopentadiene	<0.049		ug/L	50	0.049	525.2	Total/NA
Lindane	<0.0098		ug/L	0.2	0.0098	525.2	Total/NA
Methoxychlor	<0.049		ug/L	40	0.049	525.2	Total/NA
Simazine	<0.049		ug/L	4	0.049	525.2	Total/NA
Benzo[a]pyrene	<0.19		ug/L	0.2	0.19	625.1 SIM	Total/NA

Surrogate Summary

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-153961-1
SDG: Weekly

Method: 525.2 - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		2NMX (70-130)	PRY (70-130)	TPP (70-130)
380-153012-AN-1-A MS	Matrix Spike	97	100	103
380-153053-AU-1-A DU	Duplicate	96	94	107
380-153961-1	Ka'amilo Wells Pump 1	99	93	103
380-153961-3	Ka'amilo Wells Pump 2	99	89	108
LCS 380-156480/23-A	Lab Control Sample	90	97	110
MB 380-156480/21-A	Method Blank	101	92	107
MRL 380-156480/22-A	Lab Control Sample	99	94	102

Surrogate Legend

2NMX = 2-Nitro-m-xylene

PRY = Perylene-d12

TPP = Triphenylphosphate

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (33-139)	FBP (33-126)	2FP (12-120)	NBZ (36-120)	PHL6 (10-120)	TPHd14 (47-131)
380-153961-1	Ka'amilo Wells Pump 1	53	65	42	65	22	62
380-153961-3	Ka'amilo Wells Pump 2	57	74	48	75	24	69
MB 570-581308/1-A	Method Blank	72	83	53	88	30	82

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)

FBP = 2-Fluorobiphenyl (Surr)

2FP = 2-Fluorophenol (Surr)

NBZ = Nitrobenzene-d5 (Surr)

PHL6 = Phenol-d6 (Surr)

TPHd14 = p-Terphenyl-d14 (Surr)

Method: 625.1 SIM - Semivolatile Organic Compounds GC/MS (SIM)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (28-127)	FBP (31-120)	2FP (17-120)	NBZ (27-120)	PHL6 (10-120)	TPHd14 (45-120)
380-153961-1	Ka'amilo Wells Pump 1	78	67	47	75	31	79
380-153961-3	Ka'amilo Wells Pump 2	90	78	55	85	36	83
LCS 570-581308/2-A	Lab Control Sample	90	82	56	71	42	99
LCSD 570-581308/3-A	Lab Control Sample Dup	88	85	64	75	44	94
MB 570-581308/1-A	Method Blank	95	90	60	96	39	100

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)

FBP = 2-Fluorobiphenyl (Surr)

2FP = 2-Fluorophenol (Surr)

NBZ = Nitrobenzene-d5 (Surr)

PHL6 = Phenol-d6 (Surr)

TPHd14 = p-Terphenyl-d14 (Surr)

Surrogate Summary

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-153961-1
SDG: Weekly

Method: 8015B GRO LL - Gasoline Range Organics - (GC)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB1 (38-134)
380-153626-C-3 MS	Matrix Spike	88
380-153626-C-3 MSD	Matrix Spike Duplicate	92
380-153961-1	Ka'amilo Wells Pump 1	80
380-153961-2	TB: Ka'amilo Well Pump 1	80
380-153961-3	Ka'amilo Wells Pump 2	80
380-153961-4	TB: Ka'amilo Wells Pump 2	81
LCS 570-582499/4	Lab Control Sample	87
LCSD 570-582499/5	Lab Control Sample Dup	87
MB 570-582499/6	Method Blank	74
MRL 570-582499/3	Lab Control Sample	81

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

Method: 8015B - Diesel Range Organics (DRO) (GC) Low Level

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	OTCSN1 (60-130)
380-153626-B-3-A MS	Matrix Spike	111
380-153626-B-3-B MSD	Matrix Spike Duplicate	108
380-153961-1	Ka'amilo Wells Pump 1	105
380-153961-3	Ka'amilo Wells Pump 2	110
LCS 570-581117/2-A	Lab Control Sample	100
LCSD 570-581117/3-A	Lab Control Sample Dup	104
MB 570-581117/1-A	Method Blank	110
MRL 570-581117/4-A	Lab Control Sample	94

Surrogate Legend

OTCSN = n-Octacosane (Surr)

QC Sample Results

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-153961-1
SDG: Weekly

Method: 525.2 - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 380-156480/21-A

Matrix: Water

Analysis Batch: 156761

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 156480

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.099		0.099	ug/L		06/06/25 07:45	06/09/25 12:31	1
2,4'-DDD	<0.099		0.099	ug/L		06/06/25 07:45	06/09/25 12:31	1
2,4'-DDE	<0.099		0.099	ug/L		06/06/25 07:45	06/09/25 12:31	1
2,4'-DDT	<0.099		0.099	ug/L		06/06/25 07:45	06/09/25 12:31	1
2,4-Dinitrotoluene	<0.099		0.099	ug/L		06/06/25 07:45	06/09/25 12:31	1
2,6-Dinitrotoluene	<0.099		0.099	ug/L		06/06/25 07:45	06/09/25 12:31	1
2-Methylnaphthalene	<0.099		0.099	ug/L		06/06/25 07:45	06/09/25 12:31	1
4,4'-DDD	<0.099		0.099	ug/L		06/06/25 07:45	06/09/25 12:31	1
4,4'-DDE	<0.099		0.099	ug/L		06/06/25 07:45	06/09/25 12:31	1
4,4'-DDT	<0.099		0.099	ug/L		06/06/25 07:45	06/09/25 12:31	1
Acenaphthene	<0.099		0.099	ug/L		06/06/25 07:45	06/09/25 12:31	1
Acenaphthylene	<0.099		0.099	ug/L		06/06/25 07:45	06/09/25 12:31	1
Acetochlor	<0.099		0.099	ug/L		06/06/25 07:45	06/09/25 12:31	1
Alachlor	<0.050		0.050	ug/L		06/06/25 07:45	06/09/25 12:31	1
alpha-BHC	<0.099		0.099	ug/L		06/06/25 07:45	06/09/25 12:31	1
alpha-Chlordane	<0.050		0.050	ug/L		06/06/25 07:45	06/09/25 12:31	1
Anthracene	<0.020		0.020	ug/L		06/06/25 07:45	06/09/25 12:31	1
Atrazine	<0.050		0.050	ug/L		06/06/25 07:45	06/09/25 12:31	1
Benz(a)anthracene	<0.050		0.050	ug/L		06/06/25 07:45	06/09/25 12:31	1
Benzo[a]pyrene	<0.020		0.020	ug/L		06/06/25 07:45	06/09/25 12:31	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		06/06/25 07:45	06/09/25 12:31	1
Benzo[g,h,i]perylene	<0.050		0.050	ug/L		06/06/25 07:45	06/09/25 12:31	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		06/06/25 07:45	06/09/25 12:31	1
beta-BHC	<0.099		0.099	ug/L		06/06/25 07:45	06/09/25 12:31	1
Bis(2-ethylhexyl) phthalate	<0.59		0.59	ug/L		06/06/25 07:45	06/09/25 12:31	1
Bromacil	<0.099		0.099	ug/L		06/06/25 07:45	06/09/25 12:31	1
Butachlor	<0.050		0.050	ug/L		06/06/25 07:45	06/09/25 12:31	1
Butylbenzylphthalate	<0.50		0.50	ug/L		06/06/25 07:45	06/09/25 12:31	1
Chlorobenzilate	<0.099		0.099	ug/L		06/06/25 07:45	06/09/25 12:31	1
Chloroneb	<0.099		0.099	ug/L		06/06/25 07:45	06/09/25 12:31	1
Chlorothalonil (Draconil, Bravo)	<0.099		0.099	ug/L		06/06/25 07:45	06/09/25 12:31	1
Chlorpyrifos	<0.050		0.050	ug/L		06/06/25 07:45	06/09/25 12:31	1
Chrysene	<0.020		0.020	ug/L		06/06/25 07:45	06/09/25 12:31	1
delta-BHC	<0.099		0.099	ug/L		06/06/25 07:45	06/09/25 12:31	1
Di(2-ethylhexyl)adipate	<0.59		0.59	ug/L		06/06/25 07:45	06/09/25 12:31	1
Dibenz(a,h)anthracene	<0.050		0.050	ug/L		06/06/25 07:45	06/09/25 12:31	1
Diclorvos (DDVP)	<0.050		0.050	ug/L		06/06/25 07:45	06/09/25 12:31	1
Dieldrin	<0.0099		0.0099	ug/L		06/06/25 07:45	06/09/25 12:31	1
Diethylphthalate	<0.50		0.50	ug/L		06/06/25 07:45	06/09/25 12:31	1
Dimethylphthalate	<0.50		0.50	ug/L		06/06/25 07:45	06/09/25 12:31	1
Di-n-butyl phthalate	<0.99		0.99	ug/L		06/06/25 07:45	06/09/25 12:31	1
Di-n-octyl phthalate	<0.099		0.099	ug/L		06/06/25 07:45	06/09/25 12:31	1
Endosulfan I (Alpha)	<0.099		0.099	ug/L		06/06/25 07:45	06/09/25 12:31	1
Endosulfan II (Beta)	<0.099		0.099	ug/L		06/06/25 07:45	06/09/25 12:31	1
Endosulfan sulfate	<0.099		0.099	ug/L		06/06/25 07:45	06/09/25 12:31	1
Endrin	<0.0099		0.0099	ug/L		06/06/25 07:45	06/09/25 12:31	1
Endrin aldehyde	<0.099		0.099	ug/L		06/06/25 07:45	06/09/25 12:31	1
EPTC	<0.099		0.099	ug/L		06/06/25 07:45	06/09/25 12:31	1

Eurofins Eaton Analytical Pomona

QC Sample Results

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-153961-1
SDG: Weekly

Method: 525.2 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 380-156480/21-A

Matrix: Water

Analysis Batch: 156761

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 156480

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	<0.099		0.099	ug/L		06/06/25 07:45	06/09/25 12:31	1
Fluorene	<0.050		0.050	ug/L		06/06/25 07:45	06/09/25 12:31	1
gamma-Chlordane	<0.050		0.050	ug/L		06/06/25 07:45	06/09/25 12:31	1
Heptachlor	<0.0099		0.0099	ug/L		06/06/25 07:45	06/09/25 12:31	1
Heptachlor epoxide (isomer B)	<0.0099		0.0099	ug/L		06/06/25 07:45	06/09/25 12:31	1
Hexachlorobenzene	<0.050		0.050	ug/L		06/06/25 07:45	06/09/25 12:31	1
Hexachlorocyclopentadiene	<0.050		0.050	ug/L		06/06/25 07:45	06/09/25 12:31	1
Indeno[1,2,3-cd]pyrene	<0.050		0.050	ug/L		06/06/25 07:45	06/09/25 12:31	1
Isophorone	<0.099		0.099	ug/L		06/06/25 07:45	06/09/25 12:31	1
Lindane	<0.0099		0.0099	ug/L		06/06/25 07:45	06/09/25 12:31	1
Malathion	<0.099		0.099	ug/L		06/06/25 07:45	06/09/25 12:31	1
Methoxychlor	<0.050		0.050	ug/L		06/06/25 07:45	06/09/25 12:31	1
Metolachlor	<0.050		0.050	ug/L		06/06/25 07:45	06/09/25 12:31	1
Molinate	<0.099		0.099	ug/L		06/06/25 07:45	06/09/25 12:31	1
Naphthalene	<0.099		0.099	ug/L		06/06/25 07:45	06/09/25 12:31	1
Parathion	<0.099		0.099	ug/L		06/06/25 07:45	06/09/25 12:31	1
Pendimethalin (Penoxaline)	<0.099		0.099	ug/L		06/06/25 07:45	06/09/25 12:31	1
Phenanthrene	<0.040		0.040	ug/L		06/06/25 07:45	06/09/25 12:31	1
Propachlor	<0.050		0.050	ug/L		06/06/25 07:45	06/09/25 12:31	1
Pyrene	<0.050		0.050	ug/L		06/06/25 07:45	06/09/25 12:31	1
Simazine	<0.050		0.050	ug/L		06/06/25 07:45	06/09/25 12:31	1
Terbacil	<0.099		0.099	ug/L		06/06/25 07:45	06/09/25 12:31	1
Terbutylazine	<0.099		0.099	ug/L		06/06/25 07:45	06/09/25 12:31	1
Thiobencarb	<0.099		0.099	ug/L		06/06/25 07:45	06/09/25 12:31	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		06/06/25 07:45	06/09/25 12:31	1
trans-Nonachlor	<0.050		0.050	ug/L		06/06/25 07:45	06/09/25 12:31	1
Trifluralin	<0.099		0.099	ug/L		06/06/25 07:45	06/09/25 12:31	1

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Cyclopentene, 1,2,3,4,5-pentamethyl-	0.834	T J N	ug/L		2.54	1000154-28-6	06/06/25 07:45	06/09/25 12:31	1
Tridecane, 6-methyl-	0.726	T J N	ug/L		2.67	13287-21-3	06/06/25 07:45	06/09/25 12:31	1
Decane	2.77	T J N	ug/L		2.80	124-18-5	06/06/25 07:45	06/09/25 12:31	1
Cyclohexasiloxane, dodecamethyl-	0.959	T J N	ug/L		3.90	540-97-6	06/06/25 07:45	06/09/25 12:31	1
Unknown	0.632	T J	ug/L		4.71	N/A	06/06/25 07:45	06/09/25 12:31	1
9-Octadecenamide, (Z)-	2.41	T J N	ug/L		7.97	301-02-0	06/06/25 07:45	06/09/25 12:31	1
13-Docosenamide, (Z)-	1.57	T J N	ug/L		10.55	112-84-5	06/06/25 07:45	06/09/25 12:31	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	101		70 - 130	06/06/25 07:45	06/09/25 12:31	1
Perylene-d12	92		70 - 130	06/06/25 07:45	06/09/25 12:31	1
Triphenylphosphate	107		70 - 130	06/06/25 07:45	06/09/25 12:31	1

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QC Sample Results

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-153961-1
SDG: Weekly

Method: 525.2 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 380-156480/23-A

Matrix: Water

Analysis Batch: 156761

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 156480

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	1.95	1.92		ug/L		98	70 - 130
2,4'-DDD	1.95	2.26		ug/L		116	70 - 130
2,4'-DDE	1.95	2.26		ug/L		116	70 - 130
2,4'-DDT	1.95	2.05		ug/L		105	70 - 130
2,4-Dinitrotoluene	1.95	2.31		ug/L		119	70 - 130
2,6-Dinitrotoluene	1.95	2.17		ug/L		112	70 - 130
2-Methylnaphthalene	1.95	1.94		ug/L		100	70 - 130
4,4'-DDD	1.95	2.33		ug/L		119	70 - 130
4,4'-DDE	1.95	2.22		ug/L		114	70 - 130
4,4'-DDT	1.95	2.05		ug/L		105	70 - 130
Acenaphthene	1.95	2.07		ug/L		106	70 - 130
Acenaphthylene	1.95	2.20		ug/L		113	70 - 130
Acetochlor	1.95	2.40		ug/L		123	70 - 130
Alachlor	1.95	2.45		ug/L		126	70 - 130
alpha-BHC	1.95	2.45		ug/L		126	70 - 130
alpha-Chlordane	1.95	2.26		ug/L		116	70 - 130
Anthracene	1.95	2.02		ug/L		104	70 - 130
Atrazine	1.95	2.49		ug/L		128	70 - 130
Benz(a)anthracene	1.95	2.16		ug/L		111	70 - 130
Benzo[a]pyrene	1.95	2.19		ug/L		113	70 - 130
Benzo[b]fluoranthene	1.95	2.20		ug/L		113	70 - 130
Benzo[g,h,i]perylene	1.95	1.95		ug/L		100	70 - 130
Benzo[k]fluoranthene	1.95	2.11		ug/L		108	70 - 130
beta-BHC	1.95	2.51		ug/L		129	70 - 130
Bis(2-ethylhexyl) phthalate	1.95	1.96		ug/L		101	70 - 130
Bromacil	1.95	2.24		ug/L		115	70 - 130
Butachlor	1.95	2.37		ug/L		122	70 - 130
Butylbenzylphthalate	1.95	2.44		ug/L		125	70 - 130
Chlorobenzilate	1.95	2.30		ug/L		118	70 - 130
Chloroneb	1.95	2.24		ug/L		115	70 - 130
Chlorothalonil (Draconil, Bravo)	1.95	2.39		ug/L		123	70 - 130
Chlorpyrifos	1.95	2.29		ug/L		118	70 - 130
Chrysene	1.95	2.13		ug/L		109	70 - 130
delta-BHC	1.95	2.30		ug/L		118	70 - 130
Di(2-ethylhexyl)adipate	1.95	2.17		ug/L		111	70 - 130
Dibenz(a,h)anthracene	1.95	1.93		ug/L		99	70 - 130
Diclorvos (DDVP)	1.95	2.15		ug/L		111	70 - 130
Dieldrin	1.95	2.16		ug/L		111	70 - 130
Diethylphthalate	1.95	2.52		ug/L		130	70 - 130
Dimethylphthalate	1.95	2.35		ug/L		121	70 - 130
Di-n-butyl phthalate	3.89	4.99		ug/L		128	70 - 130
Di-n-octyl phthalate	1.95	2.05		ug/L		106	70 - 130
Endosulfan I (Alpha)	1.95	2.27		ug/L		117	70 - 130
Endosulfan II (Beta)	1.95	2.31		ug/L		119	70 - 130
Endosulfan sulfate	1.95	2.09		ug/L		107	70 - 130
Endrin	1.95	2.33		ug/L		120	70 - 130
Endrin aldehyde	1.95	2.21		ug/L		114	60 - 130
EPTC	1.95	2.17		ug/L		111	70 - 130

Eurofins Eaton Analytical Pomona

QC Sample Results

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-153961-1
SDG: Weekly

Method: 525.2 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 380-156480/23-A

Matrix: Water

Analysis Batch: 156761

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 156480

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoranthene	1.95	2.35		ug/L		121	70 - 130
Fluorene	1.95	2.22		ug/L		114	70 - 130
gamma-Chlordane	1.95	2.20		ug/L		113	70 - 130
Heptachlor	1.95	2.24		ug/L		115	70 - 130
Heptachlor epoxide (isomer B)	1.95	2.25		ug/L		116	70 - 130
Hexachlorobenzene	1.95	2.22		ug/L		114	70 - 130
Hexachlorocyclopentadiene	1.95	1.96		ug/L		100	70 - 130
Indeno[1,2,3-cd]pyrene	1.95	2.13		ug/L		110	70 - 130
Isophorone	1.95	1.93		ug/L		99	70 - 130
Lindane	1.95	2.49		ug/L		128	70 - 130
Malathion	1.95	2.31		ug/L		119	70 - 130
Methoxychlor	1.95	2.32		ug/L		119	70 - 130
Metolachlor	1.95	2.37		ug/L		122	70 - 130
Molinate	1.95	2.33		ug/L		120	70 - 130
Naphthalene	1.95	1.88		ug/L		97	70 - 130
Parathion	1.95	2.20		ug/L		113	70 - 130
Pendimethalin (Penoxaline)	1.95	2.21		ug/L		113	70 - 130
Phenanthrene	1.95	2.02		ug/L		104	70 - 130
Propachlor	1.95	2.44		ug/L		125	70 - 130
Pyrene	1.95	2.38		ug/L		122	70 - 130
Simazine	1.95	2.47		ug/L		127	70 - 130
Terbacil	1.95	2.26		ug/L		116	70 - 130
Terbutylazine	1.95	2.49		ug/L		128	70 - 130
Thiobencarb	1.95	2.41		ug/L		124	70 - 130
trans-Nonachlor	1.95	2.16		ug/L		111	70 - 130
Trifluralin	1.95	2.26		ug/L		116	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Nitro-m-xylene	90		70 - 130
Perylene-d12	97		70 - 130
Triphenylphosphate	110		70 - 130

Lab Sample ID: MRL 380-156480/22-A

Matrix: Water

Analysis Batch: 156761

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 156480

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	0.0974	0.125		ug/L		128	50 - 150
2,4'-DDD	0.0974	0.0941	J	ug/L		97	50 - 150
2,4'-DDE	0.0974	0.102		ug/L		104	50 - 150
2,4'-DDT	0.0974	0.116		ug/L		119	50 - 150
2,4-Dinitrotoluene	0.0974	0.112		ug/L		115	50 - 150
2,6-Dinitrotoluene	0.0974	0.108		ug/L		111	50 - 150
2-Methylnaphthalene	0.0974	0.118		ug/L		121	50 - 150
4,4'-DDD	0.0974	0.0996		ug/L		102	50 - 150
4,4'-DDE	0.0974	0.0905	J	ug/L		93	50 - 150
4,4'-DDT	0.0974	0.122		ug/L		126	50 - 150
Acenaphthene	0.0974	0.106		ug/L		109	50 - 150

Eurofins Eaton Analytical Pomona

QC Sample Results

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-153961-1
SDG: Weekly

Method: 525.2 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MRL 380-156480/22-A

Matrix: Water

Analysis Batch: 156761

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 156480

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthylene	0.0974	0.104		ug/L		107	50 - 150
Acetochlor	0.0974	0.118		ug/L		121	50 - 150
Alachlor	0.0487	0.0582		ug/L		119	50 - 150
alpha-BHC	0.0974	0.115		ug/L		118	50 - 150
alpha-Chlordane	0.0244	<0.028		ug/L		112	50 - 150
Anthracene	0.0195	0.0237		ug/L		122	50 - 150
Atrazine	0.0487	0.0570		ug/L		117	50 - 150
Benz(a)anthracene	0.0487	0.0564		ug/L		116	50 - 150
Benzo[a]pyrene	0.0195	0.0269		ug/L		138	50 - 150
Benzo[b]fluoranthene	0.0195	0.0253		ug/L		130	50 - 150
Benzo[g,h,i]perylene	0.0487	0.0556		ug/L		114	50 - 150
Benzo[k]fluoranthene	0.0195	0.0225		ug/L		116	50 - 150
beta-BHC	0.0974	0.121		ug/L		124	50 - 150
Bis(2-ethylhexyl) phthalate	0.585	0.579	J	ug/L		99	50 - 150
Bromacil	0.0974	0.124		ug/L		127	50 - 150
Butachlor	0.0487	0.0618		ug/L		127	50 - 150
Butylbenzylphthalate	0.487	0.620		ug/L		127	50 - 150
Chlorobenzilate	0.0974	0.115		ug/L		118	50 - 150
Chloroneb	0.0974	0.111		ug/L		114	50 - 150
Chlorothalonil (Draconil, Bravo)	0.0974	0.0818	J	ug/L		84	50 - 150
Chlorpyrifos	0.0487	0.0505		ug/L		104	50 - 150
Chrysene	0.0195	0.0230		ug/L		118	50 - 150
delta-BHC	0.0974	0.113		ug/L		116	50 - 150
Di(2-ethylhexyl)adipate	0.585	0.665		ug/L		114	50 - 150
Dibenz(a,h)anthracene	0.0487	0.0555		ug/L		114	50 - 150
Diclorvos (DDVP)	0.0487	0.0610		ug/L		125	50 - 150
Dieldrin	0.00974	0.0127		ug/L		130	50 - 150
Diethylphthalate	0.487	0.582		ug/L		119	50 - 150
Dimethylphthalate	0.487	0.566		ug/L		116	50 - 150
Di-n-butyl phthalate	0.487	0.713	J	ug/L		146	49 - 243
Di-n-octyl phthalate	0.0974	0.0905	J	ug/L		93	50 - 150
Endosulfan I (Alpha)	0.0974	0.117		ug/L		120	50 - 150
Endosulfan II (Beta)	0.0974	0.113		ug/L		116	50 - 150
Endosulfan sulfate	0.0974	0.111		ug/L		114	50 - 150
Endrin	0.00974	0.00924	J	ug/L		95	50 - 150
Endrin aldehyde	0.0974	0.123		ug/L		127	50 - 150
EPTC	0.0974	0.104		ug/L		106	50 - 150
Fluoranthene	0.0974	0.109		ug/L		111	50 - 150
Fluorene	0.0487	0.0547		ug/L		112	50 - 150
gamma-Chlordane	0.0244	0.0245	J	ug/L		100	50 - 150
Heptachlor	0.00974	0.00972		ug/L		100	50 - 150
Heptachlor epoxide (isomer B)	0.00974	0.0108		ug/L		111	50 - 150
Hexachlorobenzene	0.0487	0.0470	J	ug/L		96	50 - 150
Hexachlorocyclopentadiene	0.0487	0.0475	J	ug/L		98	50 - 150
Indeno[1,2,3-cd]pyrene	0.0487	0.0567		ug/L		116	50 - 150
Isophorone	0.0974	0.123		ug/L		126	50 - 150
Lindane	0.00974	0.0129		ug/L		132	50 - 150
Malathion	0.0974	0.112		ug/L		115	50 - 150
Methoxychlor	0.0487	0.0601		ug/L		123	50 - 150

Eurofins Eaton Analytical Pomona

QC Sample Results

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-153961-1
SDG: Weekly

Method: 525.2 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MRL 380-156480/22-A

Matrix: Water

Analysis Batch: 156761

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 156480

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Metolachlor	0.0487	0.0638		ug/L		131	50 - 150
Molinate	0.0974	0.112		ug/L		115	50 - 150
Naphthalene	0.0974	0.104		ug/L		106	50 - 150
Parathion	0.0974	0.0990		ug/L		102	50 - 150
Pendimethalin (Penoxaline)	0.0974	0.102		ug/L		104	50 - 150
Phenanthrene	0.0390	0.0474		ug/L		122	50 - 150
Propachlor	0.0487	0.0615		ug/L		126	50 - 150
Pyrene	0.0487	0.0554		ug/L		114	50 - 150
Simazine	0.0487	0.0629		ug/L		129	50 - 150
Terbacil	0.0974	0.125		ug/L		128	50 - 150
Terbutylazine	0.0974	0.112		ug/L		115	50 - 150
Thiobencarb	0.0974	0.107		ug/L		110	50 - 150
trans-Nonachlor	0.0244	0.0252	J	ug/L		103	50 - 150
Trifluralin	0.0974	0.104		ug/L		106	50 - 150

Surrogate	MRL %Recovery	MRL Qualifier	Limits
2-Nitro-m-xylene	99		70 - 130
Perylene-d12	94		70 - 130
Triphenylphosphate	102		70 - 130

Lab Sample ID: 380-153012-AN-1-A MS

Matrix: Water

Analysis Batch: 156761

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 156480

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	<0.098		1.95	1.99		ug/L		102	70 - 130
2,4'-DDD	<0.098		1.95	2.15		ug/L		111	70 - 130
2,4'-DDE	<0.098		1.95	2.20		ug/L		113	70 - 130
2,4'-DDT	<0.098		1.95	1.94		ug/L		99	70 - 130
2,4-Dinitrotoluene	<0.098		1.95	2.08		ug/L		107	70 - 130
2,6-Dinitrotoluene	<0.098		1.95	2.04		ug/L		105	70 - 130
2-Methylnaphthalene	<0.098		1.95	2.01		ug/L		103	70 - 130
4,4'-DDD	<0.098		1.95	2.21		ug/L		114	70 - 130
4,4'-DDE	<0.098		1.95	2.11		ug/L		109	70 - 130
4,4'-DDT	<0.098		1.95	1.94		ug/L		100	70 - 130
Acenaphthene	<0.098		1.95	2.00		ug/L		103	70 - 130
Acenaphthylene	<0.098		1.95	2.08		ug/L		107	70 - 130
Acetochlor	<0.098		1.95	2.20		ug/L		113	70 - 130
Alachlor	<0.049		1.95	2.31		ug/L		119	70 - 130
alpha-BHC	<0.098		1.95	2.15		ug/L		110	70 - 130
alpha-Chlordane	<0.049		1.95	2.19		ug/L		112	70 - 130
Anthracene	<0.020		1.95	1.75		ug/L		90	70 - 130
Atrazine	<0.049		1.95	2.15		ug/L		111	70 - 130
Benz(a)anthracene	<0.049		1.95	2.04		ug/L		105	70 - 130
Benzo[a]pyrene	<0.020		1.95	2.12		ug/L		109	70 - 130
Benzo[b]fluoranthene	<0.020		1.95	2.19		ug/L		113	70 - 130
Benzo[g,h,i]perylene	<0.049		1.95	2.02		ug/L		104	70 - 130
Benzo[k]fluoranthene	<0.020		1.95	2.14		ug/L		110	70 - 130

Eurofins Eaton Analytical Pomona

QC Sample Results

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-153961-1
SDG: Weekly

Method: 525.2 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 380-153012-AN-1-A MS

Matrix: Water

Analysis Batch: 156761

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 156480

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
beta-BHC	<0.098		1.95	2.17		ug/L		111	70 - 130
Bis(2-ethylhexyl) phthalate	<0.59		1.95	1.98		ug/L		102	70 - 130
Bromacil	<0.098		1.95	2.15		ug/L		110	70 - 130
Butachlor	<0.049		1.95	2.19		ug/L		113	70 - 130
Butylbenzylphthalate	<0.49		1.95	2.23		ug/L		114	70 - 130
Chlorobenzilate	<0.098		1.95	2.14		ug/L		110	70 - 130
Chloroneb	<0.098		1.95	2.05		ug/L		105	70 - 130
Chlorothalonil (Draconil, Bravo)	<0.098		1.95	2.24		ug/L		115	70 - 130
Chlorpyrifos	<0.049		1.95	2.23		ug/L		114	70 - 130
Chrysene	<0.020		1.95	2.05		ug/L		105	70 - 130
delta-BHC	<0.098		1.95	2.11		ug/L		109	70 - 130
Di(2-ethylhexyl)adipate	<0.59		1.95	2.08		ug/L		107	70 - 130
Dibenz(a,h)anthracene	<0.049		1.95	1.95		ug/L		100	70 - 130
Diclorvos (DDVP)	<0.049		1.95	2.08		ug/L		107	70 - 130
Dieldrin	<0.0098		1.95	2.08		ug/L		107	70 - 130
Diethylphthalate	<0.49		1.95	2.24		ug/L		115	70 - 130
Dimethylphthalate	<0.49		1.95	2.16		ug/L		111	70 - 130
Di-n-butyl phthalate	<0.98		3.89	4.72		ug/L		115	70 - 130
Di-n-octyl phthalate	<0.098		1.95	2.07		ug/L		106	70 - 130
Endosulfan I (Alpha)	<0.098		1.95	2.11		ug/L		108	70 - 130
Endosulfan II (Beta)	<0.098		1.95	2.05		ug/L		105	70 - 130
Endosulfan sulfate	<0.098		1.95	2.00		ug/L		103	70 - 130
Endrin	<0.0098		1.95	2.30		ug/L		118	70 - 130
Endrin aldehyde	<0.098		1.95	1.84		ug/L		95	60 - 130
EPTC	<0.098		1.95	2.11		ug/L		108	70 - 130
Fluoranthene	<0.098		1.95	2.22		ug/L		114	70 - 130
Fluorene	<0.049		1.95	2.07		ug/L		107	70 - 130
gamma-Chlordane	<0.049		1.95	2.10		ug/L		108	70 - 130
Heptachlor	<0.0098		1.95	2.28		ug/L		117	70 - 130
Heptachlor epoxide (isomer B)	<0.0098		1.95	2.05		ug/L		106	70 - 130
Hexachlorobenzene	<0.049		1.95	2.12		ug/L		109	70 - 130
Hexachlorocyclopentadiene	<0.049		1.95	2.17		ug/L		111	70 - 130
Indeno[1,2,3-cd]pyrene	<0.049		1.95	2.29		ug/L		118	70 - 130
Isophorone	<0.098		1.95	2.18		ug/L		112	70 - 130
Lindane	<0.0098		1.95	2.19		ug/L		113	70 - 130
Malathion	<0.098		1.95	2.17		ug/L		111	70 - 130
Methoxychlor	<0.049		1.95	2.21		ug/L		113	70 - 130
Metolachlor	<0.049		1.95	2.20		ug/L		113	70 - 130
Molinate	<0.098		1.95	2.15		ug/L		111	70 - 130
Naphthalene	<0.098		1.95	2.01		ug/L		104	70 - 130
Parathion	<0.098		1.95	2.02		ug/L		104	70 - 130
Pendimethalin (Penoxaline)	<0.098		1.95	2.18		ug/L		112	70 - 130
Phenanthrene	<0.039		1.95	1.96		ug/L		101	70 - 130
Propachlor	<0.049		1.95	2.11		ug/L		108	70 - 130
Pyrene	<0.049		1.95	2.26		ug/L		116	70 - 130
Simazine	<0.049		1.95	2.11		ug/L		109	70 - 130
Terbacil	<0.098		1.95	2.16		ug/L		111	70 - 130
Terbutylazine	<0.098		1.95	2.14		ug/L		110	70 - 130
Thiobencarb	<0.098		1.95	2.22		ug/L		114	70 - 130

Eurofins Eaton Analytical Pomona

QC Sample Results

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-153961-1
SDG: Weekly

Method: 525.2 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 380-153012-AN-1-A MS

Matrix: Water

Analysis Batch: 156761

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 156480

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
trans-Nonachlor	<0.049		1.95	2.08		ug/L		107	70 - 130
Trifluralin	<0.098		1.95	2.11		ug/L		108	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
2-Nitro-m-xylene	97		70 - 130
Perylene-d12	100		70 - 130
Triphenylphosphate	103		70 - 130

Lab Sample ID: 380-153053-AU-1-A DU

Matrix: Water

Analysis Batch: 156761

Client Sample ID: Duplicate

Prep Type: Total/NA

Prep Batch: 156480

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
1-Methylnaphthalene	<0.099		<0.096		ug/L		NC	20
2,4'-DDD	<0.099		<0.096		ug/L		NC	20
2,4'-DDE	<0.099		<0.096		ug/L		NC	20
2,4'-DDT	<0.099		<0.096		ug/L		NC	20
2,4-Dinitrotoluene	<0.099		<0.096		ug/L		NC	20
2,6-Dinitrotoluene	<0.099		<0.096		ug/L		NC	20
2-Methylnaphthalene	<0.099		<0.096		ug/L		NC	20
4,4'-DDD	<0.099		<0.096		ug/L		NC	20
4,4'-DDE	<0.099		<0.096		ug/L		NC	20
4,4'-DDT	<0.099		<0.096		ug/L		NC	20
Acenaphthene	<0.099		<0.096		ug/L		NC	20
Acenaphthylene	<0.099		<0.096		ug/L		NC	20
Acetochlor	<0.099		<0.096		ug/L		NC	20
Alachlor	<0.049		<0.048		ug/L		NC	20
alpha-BHC	<0.099		<0.096		ug/L		NC	20
alpha-Chlordane	<0.049		<0.048		ug/L		NC	20
Anthracene	<0.020		<0.019		ug/L		NC	20
Atrazine	<0.049		<0.048		ug/L		NC	20
Benz(a)anthracene	<0.049		<0.048		ug/L		NC	20
Benzo[a]pyrene	<0.020		<0.019		ug/L		NC	20
Benzo[b]fluoranthene	<0.020		<0.019		ug/L		NC	20
Benzo[g,h,i]perylene	<0.049		<0.048		ug/L		NC	20
Benzo[k]fluoranthene	<0.020		<0.019		ug/L		NC	20
beta-BHC	<0.099		<0.096		ug/L		NC	20
Bis(2-ethylhexyl) phthalate	<0.59		<0.58		ug/L		NC	20
Bromacil	<0.099		<0.096		ug/L		NC	20
Butachlor	<0.049		<0.048		ug/L		NC	20
Butylbenzylphthalate	<0.49		<0.48		ug/L		NC	20
Chlorobenzilate	<0.099		<0.096		ug/L		NC	20
Chloroneb	<0.099		<0.096		ug/L		NC	20
Chlorothalonil (Draconil, Bravo)	<0.099		<0.096		ug/L		NC	20
Chlorpyrifos	<0.049		<0.048		ug/L		NC	20
Chrysene	<0.020		<0.019		ug/L		NC	20
delta-BHC	<0.099		<0.096		ug/L		NC	20
Di(2-ethylhexyl)adipate	<0.59		<0.58		ug/L		NC	20

Eurofins Eaton Analytical Pomona

QC Sample Results

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-153961-1
SDG: Weekly

Method: 525.2 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 380-153053-AU-1-A DU

Matrix: Water

Analysis Batch: 156761

Client Sample ID: Duplicate

Prep Type: Total/NA

Prep Batch: 156480

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Dibenz(a,h)anthracene	<0.049		<0.048		ug/L		NC	20
Diclorvos (DDVP)	<0.049		<0.048		ug/L		NC	20
Dieldrin	<0.0099		<0.0096		ug/L		NC	20
Diethylphthalate	<0.49		<0.48		ug/L		NC	20
Dimethylphthalate	<0.49		<0.48		ug/L		NC	20
Di-n-butyl phthalate	<0.99		<0.96		ug/L		NC	20
Di-n-octyl phthalate	<0.099		<0.096		ug/L		NC	20
Endosulfan I (Alpha)	<0.099		<0.096		ug/L		NC	20
Endosulfan II (Beta)	<0.099		<0.096		ug/L		NC	20
Endosulfan sulfate	<0.099		<0.096		ug/L		NC	20
Endrin	<0.0099		<0.0096		ug/L		NC	20
Endrin aldehyde	<0.099		<0.096		ug/L		NC	20
EPTC	<0.099		<0.096		ug/L		NC	20
Fluoranthene	<0.099		<0.096		ug/L		NC	20
Fluorene	<0.049		<0.048		ug/L		NC	20
gamma-Chlordane	<0.049		<0.048		ug/L		NC	20
Heptachlor	<0.0099		<0.0096		ug/L		NC	20
Heptachlor epoxide (isomer B)	<0.0099		<0.0096		ug/L		NC	20
Hexachlorobenzene	<0.049		<0.048		ug/L		NC	20
Hexachlorocyclopentadiene	<0.049		<0.048		ug/L		NC	20
Indeno[1,2,3-cd]pyrene	<0.049		<0.048		ug/L		NC	20
Isophorone	<0.099		<0.096		ug/L		NC	20
Lindane	<0.0099		<0.0096		ug/L		NC	20
Malathion	<0.099		<0.096		ug/L		NC	20
Methoxychlor	<0.049		<0.048		ug/L		NC	20
Metolachlor	<0.049		<0.048		ug/L		NC	20
Molinate	<0.099		<0.096		ug/L		NC	20
Naphthalene	<0.099		<0.096		ug/L		NC	20
Parathion	<0.099		<0.096		ug/L		NC	20
Pendimethalin (Penoxaline)	<0.099		<0.096		ug/L		NC	20
Phenanthrene	<0.040		<0.039		ug/L		NC	20
Propachlor	<0.049		<0.048		ug/L		NC	20
Pyrene	<0.049		<0.048		ug/L		NC	20
Simazine	<0.049		<0.048		ug/L		NC	20
Terbacil	<0.099		<0.096		ug/L		NC	20
Terbutylazine	<0.099		<0.096		ug/L		NC	20
Thiobencarb	<0.099		<0.096		ug/L		NC	20
Total Permethrin (mixed isomers)	<0.20		<0.19		ug/L		NC	20
trans-Nonachlor	<0.049		<0.048		ug/L		NC	20
Trifluralin	<0.099		<0.096		ug/L		NC	20

Surrogate	%Recovery	DU Qualifier	Limits
2-Nitro-m-xylene	96		70 - 130
Perylene-d12	94		70 - 130
Triphenylphosphate	107		70 - 130

QC Sample Results

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-153961-1
SDG: Weekly

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 570-581308/1-A
Matrix: Water
Analysis Batch: 585733

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 581308

<i>Tentatively Identified Compound</i>	<i>Est. Result</i>	<i>MB MB</i> <i>Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>RT</i>	<i>CAS No.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>Tentatively Identified Compound</i>	<i>None</i>		<i>ug/L</i>			<i>N/A</i>	<i>06/09/25 08:10</i>	<i>06/18/25 08:25</i>	<i>1</i>
<i>Surrogate</i>	<i>%Recovery</i>	<i>MB MB</i> <i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
2,4,6-Tribromophenol (Surr)	72		33 - 139				06/09/25 08:10	06/18/25 08:25	1
2-Fluorobiphenyl (Surr)	83		33 - 126				06/09/25 08:10	06/18/25 08:25	1
2-Fluorophenol (Surr)	53		12 - 120				06/09/25 08:10	06/18/25 08:25	1
Nitrobenzene-d5 (Surr)	88		36 - 120				06/09/25 08:10	06/18/25 08:25	1
Phenol-d6 (Surr)	30		10 - 120				06/09/25 08:10	06/18/25 08:25	1
p-Terphenyl-d14 (Surr)	82		47 - 131				06/09/25 08:10	06/18/25 08:25	1

Method: 625.1 SIM - Semivolatile Organic Compounds GC/MS (SIM)

Lab Sample ID: MB 570-581308/1-A
Matrix: Water
Analysis Batch: 583049

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 581308

<i>Analyte</i>	<i>Result</i>	<i>MB MB</i> <i>Qualifier</i>	<i>RL</i>	<i>Unit</i>	<i>D</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1-Methylnaphthalene	<0.20		0.20	ug/L		06/09/25 08:10	06/12/25 11:33	1
2-Methylnaphthalene	<0.20		0.20	ug/L		06/09/25 08:10	06/12/25 11:33	1
Acenaphthene	<0.20		0.20	ug/L		06/09/25 08:10	06/12/25 11:33	1
Acenaphthylene	<0.20		0.20	ug/L		06/09/25 08:10	06/12/25 11:33	1
Anthracene	<0.20		0.20	ug/L		06/09/25 08:10	06/12/25 11:33	1
Benzo[a]anthracene	<0.20		0.20	ug/L		06/09/25 08:10	06/12/25 11:33	1
Benzo[a]pyrene	<0.20		0.20	ug/L		06/09/25 08:10	06/12/25 11:33	1
Benzo[b]fluoranthene	<0.20		0.20	ug/L		06/09/25 08:10	06/12/25 11:33	1
Benzo[g,h,i]perylene	<0.20		0.20	ug/L		06/09/25 08:10	06/12/25 11:33	1
Benzo[k]fluoranthene	<0.20		0.20	ug/L		06/09/25 08:10	06/12/25 11:33	1
Chrysene	<0.20		0.20	ug/L		06/09/25 08:10	06/12/25 11:33	1
Dibenz(a,h)anthracene	<0.20		0.20	ug/L		06/09/25 08:10	06/12/25 11:33	1
Fluoranthene	<0.20		0.20	ug/L		06/09/25 08:10	06/12/25 11:33	1
Fluorene	<0.20		0.20	ug/L		06/09/25 08:10	06/12/25 11:33	1
Indeno[1,2,3-cd]pyrene	<0.20		0.20	ug/L		06/09/25 08:10	06/12/25 11:33	1
Naphthalene	<0.20		0.20	ug/L		06/09/25 08:10	06/12/25 11:33	1
Phenanthrene	<0.20		0.20	ug/L		06/09/25 08:10	06/12/25 11:33	1
Pyrene	<0.20		0.20	ug/L		06/09/25 08:10	06/12/25 11:33	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>MB MB</i> <i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
2,4,6-Tribromophenol (Surr)	95		28 - 127			06/09/25 08:10	06/12/25 11:33	1
2-Fluorobiphenyl (Surr)	90		31 - 120			06/09/25 08:10	06/12/25 11:33	1
2-Fluorophenol (Surr)	60		17 - 120			06/09/25 08:10	06/12/25 11:33	1
Nitrobenzene-d5 (Surr)	96		27 - 120			06/09/25 08:10	06/12/25 11:33	1
Phenol-d6 (Surr)	39		10 - 120			06/09/25 08:10	06/12/25 11:33	1
p-Terphenyl-d14 (Surr)	100		45 - 120			06/09/25 08:10	06/12/25 11:33	1

Eurofins Eaton Analytical Pomona

QC Sample Results

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-153961-1
SDG: Weekly

Method: 625.1 SIM - Semivolatile Organic Compounds GC/MS (SIM) (Continued)

Lab Sample ID: LCS 570-581308/2-A

Matrix: Water

Analysis Batch: 583049

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 581308

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	20.0	16.6		ug/L		83	47 - 120
2-Methylnaphthalene	20.0	16.5		ug/L		82	43 - 120
Acenaphthene	20.0	19.3		ug/L		96	60 - 132
Acenaphthylene	20.0	19.6		ug/L		98	54 - 126
Anthracene	20.0	20.1		ug/L		101	43 - 120
Benzo[a]anthracene	20.0	21.2		ug/L		106	42 - 133
Benzo[a]pyrene	20.0	20.9		ug/L		104	32 - 148
Benzo[b]fluoranthene	20.0	20.9		ug/L		105	42 - 140
Benzo[g,h,i]perylene	20.0	20.8		ug/L		104	1 - 195
Benzo[k]fluoranthene	20.0	20.1		ug/L		100	25 - 146
Chrysene	20.0	21.0		ug/L		105	44 - 140
Dibenz(a,h)anthracene	20.0	21.3		ug/L		107	1 - 200
Fluoranthene	20.0	21.6		ug/L		108	43 - 121
Fluorene	20.0	19.9		ug/L		99	70 - 120
Indeno[1,2,3-cd]pyrene	20.0	20.2		ug/L		101	1 - 151
Naphthalene	20.0	15.3		ug/L		77	36 - 120
Phenanthrene	20.0	20.1		ug/L		101	65 - 120
Pyrene	20.0	21.7		ug/L		109	70 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	90		28 - 127
2-Fluorobiphenyl (Surr)	82		31 - 120
2-Fluorophenol (Surr)	56		17 - 120
Nitrobenzene-d5 (Surr)	71		27 - 120
Phenol-d6 (Surr)	42		10 - 120
p-Terphenyl-d14 (Surr)	99		45 - 120

Lab Sample ID: LCSD 570-581308/3-A

Matrix: Water

Analysis Batch: 583049

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 581308

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	20.0	17.1		ug/L		85	47 - 120	3	20
2-Methylnaphthalene	20.0	16.8		ug/L		84	43 - 120	2	20
Acenaphthene	20.0	19.8		ug/L		99	60 - 132	3	29
Acenaphthylene	20.0	20.3		ug/L		102	54 - 126	4	45
Anthracene	20.0	19.6		ug/L		98	43 - 120	3	40
Benzo[a]anthracene	20.0	21.6		ug/L		108	42 - 133	2	32
Benzo[a]pyrene	20.0	21.5		ug/L		107	32 - 148	3	43
Benzo[b]fluoranthene	20.0	21.6		ug/L		108	42 - 140	3	43
Benzo[g,h,i]perylene	20.0	21.0		ug/L		105	1 - 195	1	61
Benzo[k]fluoranthene	20.0	20.5		ug/L		103	25 - 146	2	38
Chrysene	20.0	21.5		ug/L		107	44 - 140	2	53
Dibenz(a,h)anthracene	20.0	22.1		ug/L		110	1 - 200	4	75
Fluoranthene	20.0	21.4		ug/L		107	43 - 121	1	40
Fluorene	20.0	20.0		ug/L		100	70 - 120	1	23
Indeno[1,2,3-cd]pyrene	20.0	20.6		ug/L		103	1 - 151	2	60
Naphthalene	20.0	16.2		ug/L		81	36 - 120	6	39

Eurofins Eaton Analytical Pomona

QC Sample Results

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-153961-1
SDG: Weekly

Method: 625.1 SIM - Semivolatile Organic Compounds GC/MS (SIM) (Continued)

Lab Sample ID: LCSD 570-581308/3-A

Matrix: Water

Analysis Batch: 583049

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 581308

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Phenanthrene	20.0	19.9		ug/L		100	65 - 120	1	24
Pyrene	20.0	21.3		ug/L		107	70 - 120	2	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	88		28 - 127
2-Fluorobiphenyl (Surr)	85		31 - 120
2-Fluorophenol (Surr)	64		17 - 120
Nitrobenzene-d5 (Surr)	75		27 - 120
Phenol-d6 (Surr)	44		10 - 120
p-Terphenyl-d14 (Surr)	94		45 - 120

Method: 8015B GRO LL - Gasoline Range Organics - (GC)

Lab Sample ID: MB 570-582499/6

Matrix: Water

Analysis Batch: 582499

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	<10		10	ug/L			06/11/25 12:29	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	74		38 - 134		06/11/25 12:29	1

Lab Sample ID: LCS 570-582499/4

Matrix: Water

Analysis Batch: 582499

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (C4-C13)	400	393		ug/L		98	78 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	87		38 - 134

Lab Sample ID: LCSD 570-582499/5

Matrix: Water

Analysis Batch: 582499

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
Gasoline Range Organics (C4-C13)	400	387		ug/L		97	78 - 120	2	10

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	87		38 - 134

Eurofins Eaton Analytical Pomona

QC Sample Results

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-153961-1
SDG: Weekly

Method: 8015B GRO LL - Gasoline Range Organics - (GC) (Continued)

Lab Sample ID: MRL 570-582499/3

Matrix: Water

Analysis Batch: 582499

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (C4-C13)			10.0	9.95	J	ug/L		99	50 - 150		
Surrogate	MRL %Recovery	MRL Qualifier	Limits								
4-Bromofluorobenzene (Surr)	81		38 - 134								

Lab Sample ID: 380-153626-C-3 MS

Matrix: Water

Analysis Batch: 582499

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (C4-C13)	<10		400	410		ug/L		102	68 - 122		
Surrogate	MS %Recovery	MS Qualifier	Limits								
4-Bromofluorobenzene (Surr)	88		38 - 134								

Lab Sample ID: 380-153626-C-3 MSD

Matrix: Water

Analysis Batch: 582499

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (C4-C13)	<10		400	398		ug/L		100	68 - 122	3	18
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	92		38 - 134								

Method: 8015B - Diesel Range Organics (DRO) (GC) Low Level

Lab Sample ID: MB 570-581117/1-A

Matrix: Water

Analysis Batch: 584442

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 581117

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Diesel Range Organics (C10-C24)	<25		25	ug/L		06/08/25 09:03	06/16/25 19:42	1
Motor Oil Range Organics [C24-C36]	<25		25	ug/L		06/08/25 09:03	06/16/25 19:42	1
C8-C18	<25		25	ug/L		06/08/25 09:03	06/16/25 19:42	1
Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac		
%Recovery	Qualifier							
n-Octacosane (Surr)	110		60 - 130	06/08/25 09:03	06/16/25 19:42	1		

Lab Sample ID: LCS 570-581117/2-A

Matrix: Water

Analysis Batch: 584442

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 581117

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
C10-C28	1600	1420		ug/L		89	56 - 127

Eurofins Eaton Analytical Pomona

QC Sample Results

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-153961-1
SDG: Weekly

Method: 8015B - Diesel Range Organics (DRO) (GC) Low Level (Continued)

Lab Sample ID: LCS 570-581117/2-A
Matrix: Water
Analysis Batch: 584442

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 581117

Surrogate	LCS %Recovery	LCS Qualifier	Limits
n-Octacosane (Surr)	100		60 - 130

Lab Sample ID: LCSD 570-581117/3-A
Matrix: Water
Analysis Batch: 584442

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 581117

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
C10-C28	1600	1440		ug/L		90	56 - 127	2	23
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
n-Octacosane (Surr)	104		60 - 130						

Lab Sample ID: MRL 570-581117/4-A
Matrix: Water
Analysis Batch: 584442

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 581117

			Spike	MRL	MRL				%Rec		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
C10-C28			0.0200	<0.020		mg/L		93	50 - 150		
Surrogate	MRL	MRL									
	%Recovery	Qualifier	Limits								
n-Octacosane (Surr)	94		60 - 130								

Lab Sample ID: 380-153626-B-3-A MS
Matrix: Water
Analysis Batch: 584442

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 581117

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
C10-C28	<25		1620	1640		ug/L		101	70 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
n-Octacosane (Surr)	111		60 - 130								

Lab Sample ID: 380-153626-B-3-B MSD
Matrix: Water
Analysis Batch: 584442

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 581117

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
C10-C28	<25		1610	1550		ug/L		96	70 - 130	6	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
n-Octacosane (Surr)	108		60 - 130								

QC Association Summary

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-153961-1
SDG: Weekly

GC/MS Semi VOA

Prep Batch: 156480

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-153961-1	Ka'amilo Wells Pump 1	Total/NA	Water	525.2	
380-153961-3	Ka'amilo Wells Pump 2	Total/NA	Water	525.2	
MB 380-156480/21-A	Method Blank	Total/NA	Water	525.2	
LCS 380-156480/23-A	Lab Control Sample	Total/NA	Water	525.2	
MRL 380-156480/22-A	Lab Control Sample	Total/NA	Water	525.2	
380-153012-AN-1-A MS	Matrix Spike	Total/NA	Water	525.2	
380-153053-AU-1-A DU	Duplicate	Total/NA	Water	525.2	

Analysis Batch: 156761

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-153961-1	Ka'amilo Wells Pump 1	Total/NA	Water	525.2	156480
380-153961-3	Ka'amilo Wells Pump 2	Total/NA	Water	525.2	156480
MB 380-156480/21-A	Method Blank	Total/NA	Water	525.2	156480
LCS 380-156480/23-A	Lab Control Sample	Total/NA	Water	525.2	156480
MRL 380-156480/22-A	Lab Control Sample	Total/NA	Water	525.2	156480
380-153012-AN-1-A MS	Matrix Spike	Total/NA	Water	525.2	156480
380-153053-AU-1-A DU	Duplicate	Total/NA	Water	525.2	156480

Prep Batch: 581308

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-153961-1	Ka'amilo Wells Pump 1	Total/NA	Water	625.1	
380-153961-3	Ka'amilo Wells Pump 2	Total/NA	Water	625.1	
MB 570-581308/1-A	Method Blank	Total/NA	Water	625.1	
LCS 570-581308/2-A	Lab Control Sample	Total/NA	Water	625.1	
LCSD 570-581308/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	

Analysis Batch: 583049

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-581308/1-A	Method Blank	Total/NA	Water	625.1 SIM	581308
LCS 570-581308/2-A	Lab Control Sample	Total/NA	Water	625.1 SIM	581308
LCSD 570-581308/3-A	Lab Control Sample Dup	Total/NA	Water	625.1 SIM	581308

Analysis Batch: 583464

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-153961-1	Ka'amilo Wells Pump 1	Total/NA	Water	625.1 SIM	581308
380-153961-3	Ka'amilo Wells Pump 2	Total/NA	Water	625.1 SIM	581308

Analysis Batch: 585733

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-153961-1	Ka'amilo Wells Pump 1	Total/NA	Water	625.1	581308
380-153961-3	Ka'amilo Wells Pump 2	Total/NA	Water	625.1	581308
MB 570-581308/1-A	Method Blank	Total/NA	Water	625.1	581308

GC VOA

Analysis Batch: 582499

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-153961-1	Ka'amilo Wells Pump 1	Total/NA	Water	8015B GRO LL	
380-153961-2	TB: Ka'amilo Well Pump 1	Total/NA	Water	8015B GRO LL	
380-153961-3	Ka'amilo Wells Pump 2	Total/NA	Water	8015B GRO LL	
380-153961-4	TB: Ka'amilo Wells Pump 2	Total/NA	Water	8015B GRO LL	

Eurofins Eaton Analytical Pomona

QC Association Summary

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-153961-1
SDG: Weekly

GC VOA (Continued)

Analysis Batch: 582499 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-582499/6	Method Blank	Total/NA	Water	8015B GRO LL	
LCS 570-582499/4	Lab Control Sample	Total/NA	Water	8015B GRO LL	
LCSD 570-582499/5	Lab Control Sample Dup	Total/NA	Water	8015B GRO LL	
MRL 570-582499/3	Lab Control Sample	Total/NA	Water	8015B GRO LL	
380-153626-C-3 MS	Matrix Spike	Total/NA	Water	8015B GRO LL	
380-153626-C-3 MSD	Matrix Spike Duplicate	Total/NA	Water	8015B GRO LL	

GC Semi VOA

Prep Batch: 581117

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-153961-1	Ka'amilo Wells Pump 1	Total/NA	Water	3510C	
380-153961-3	Ka'amilo Wells Pump 2	Total/NA	Water	3510C	
MB 570-581117/1-A	Method Blank	Total/NA	Water	3510C	
LCS 570-581117/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 570-581117/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MRL 570-581117/4-A	Lab Control Sample	Total/NA	Water	3510C	
380-153626-B-3-A MS	Matrix Spike	Total/NA	Water	3510C	
380-153626-B-3-B MSD	Matrix Spike Duplicate	Total/NA	Water	3510C	

Analysis Batch: 584442

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-153961-1	Ka'amilo Wells Pump 1	Total/NA	Water	8015B	581117
380-153961-3	Ka'amilo Wells Pump 2	Total/NA	Water	8015B	581117
MB 570-581117/1-A	Method Blank	Total/NA	Water	8015B	581117
LCS 570-581117/2-A	Lab Control Sample	Total/NA	Water	8015B	581117
LCSD 570-581117/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	581117
MRL 570-581117/4-A	Lab Control Sample	Total/NA	Water	8015B	581117
380-153626-B-3-A MS	Matrix Spike	Total/NA	Water	8015B	581117
380-153626-B-3-B MSD	Matrix Spike Duplicate	Total/NA	Water	8015B	581117

Lab Chronicle

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-153961-1
SDG: Weekly

Client Sample ID: Ka'amilo Wells Pump 1

Lab Sample ID: 380-153961-1

Date Collected: 06/03/25 09:55

Matrix: Water

Date Received: 06/05/25 09:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			156480	KRD3	EA POM	06/06/25 07:45
Total/NA	Analysis	525.2		1	156761	Q8LA	EA POM	06/09/25 14:34
Total/NA	Prep	625.1			581308	OAJ3	EET CAL 4	06/09/25 08:10
Total/NA	Analysis	625.1		1	585733	PQS1	EET CAL 4	06/18/25 09:13
Total/NA	Prep	625.1			581308	OAJ3	EET CAL 4	06/09/25 08:10
Total/NA	Analysis	625.1 SIM		1	583464	J7WE	EET CAL 4	06/12/25 23:14
Total/NA	Analysis	8015B GRO LL		1	582499	A9VE	EET CAL 4	06/11/25 20:21
Total/NA	Prep	3510C			581117	TVD6	EET CAL 4	06/08/25 09:03
Total/NA	Analysis	8015B		1	584442	H6FE	EET CAL 4	06/16/25 23:16

Client Sample ID: TB: Ka'amilo Well Pump 1

Lab Sample ID: 380-153961-2

Date Collected: 06/03/25 09:55

Matrix: Water

Date Received: 06/05/25 09:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015B GRO LL		1	582499	A9VE	EET CAL 4	06/11/25 14:47

Client Sample ID: Ka'amilo Wells Pump 2

Lab Sample ID: 380-153961-3

Date Collected: 06/03/25 10:35

Matrix: Water

Date Received: 06/05/25 09:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			156480	KRD3	EA POM	06/06/25 07:45
Total/NA	Analysis	525.2		1	156761	Q8LA	EA POM	06/09/25 14:54
Total/NA	Prep	625.1			581308	OAJ3	EET CAL 4	06/09/25 08:10
Total/NA	Analysis	625.1		1	585733	PQS1	EET CAL 4	06/18/25 09:37
Total/NA	Prep	625.1			581308	OAJ3	EET CAL 4	06/09/25 08:10
Total/NA	Analysis	625.1 SIM		1	583464	J7WE	EET CAL 4	06/12/25 23:36
Total/NA	Analysis	8015B GRO LL		1	582499	A9VE	EET CAL 4	06/11/25 21:10
Total/NA	Prep	3510C			581117	TVD6	EET CAL 4	06/08/25 09:03
Total/NA	Analysis	8015B		1	584442	H6FE	EET CAL 4	06/16/25 23:37

Client Sample ID: TB: Ka'amilo Wells Pump 2

Lab Sample ID: 380-153961-4

Date Collected: 06/03/25 10:35

Matrix: Water

Date Received: 06/05/25 09:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015B GRO LL		1	582499	A9VE	EET CAL 4	06/11/25 15:12

Laboratory References:

EA POM = Eurofins Eaton Analytical Pomona, 941 Corporate Center Drive, Pomona, CA 91768-2642, TEL (626)386-1100
EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Eurofins Eaton Analytical Pomona

Accreditation/Certification Summary

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-153961-1
SDG: Weekly

Laboratory: Eurofins Eaton Analytical Pomona

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

Authority	Program	Identification Number	Expiration Date
Hawaii	State	CA00006	01-31-26
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
525.2	525.2	Water	1-Methylnaphthalene
525.2	525.2	Water	2,4'-DDD
525.2	525.2	Water	2,4'-DDE
525.2	525.2	Water	2,4'-DDT
525.2	525.2	Water	2,4-Dinitrotoluene
525.2	525.2	Water	2,6-Dinitrotoluene
525.2	525.2	Water	2-Methylnaphthalene
525.2	525.2	Water	4,4'-DDD
525.2	525.2	Water	4,4'-DDE
525.2	525.2	Water	4,4' DDT
525.2	525.2	Water	Acetochlor
525.2	525.2	Water	alpha-BHC
525.2	525.2	Water	alpha-Chlordane
525.2	525.2	Water	beta-BHC
525.2	525.2	Water	Chlorobenzilate
525.2	525.2	Water	Chloroneb
525.2	525.2	Water	Chlorothalonil (Draconil, Bravo)
525.2	525.2	Water	Chlorpyrifos
525.2	525.2	Water	delta-BHC
525.2	525.2	Water	Diclorvos (DDVP)
525.2	525.2	Water	Endosulfan I (Alpha)
525.2	525.2	Water	Endosulfan II (Beta)
525.2	525.2	Water	Endosulfan sulfate
525.2	525.2	Water	Endrin aldehyde
525.2	525.2	Water	EPTC
525.2	525.2	Water	gamma-Chlordane
525.2	525.2	Water	Isophorone
525.2	525.2	Water	Malathion
525.2	525.2	Water	Parathion
525.2	525.2	Water	Pendimethalin (Penoxaline)
525.2	525.2	Water	Terbacil
525.2	525.2	Water	Terbutylazine
525.2	525.2	Water	Total Permethrin (mixed isomers)
525.2	525.2	Water	trans-Nonachlor

Laboratory: Eurofins Calscience

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

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	7296.01	11-30-26
Alaska (UST)	State	25-005	03-02-26
Arizona	State	AZ0830	11-16-25
Arkansas DEQ	State	88-01672	07-02-25
California	Los Angeles County Sanitation Districts	9257304	07-31-26
California	SCAQMD LAP	17LA0919	11-30-25

Eurofins Eaton Analytical Pomona

Accreditation/Certification Summary

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-153961-1
SDG: Weekly

Laboratory: Eurofins Calscience (Continued)

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	3082	07-31-25
Kansas	NELAP	E-10420	07-31-25
Nevada	State	CA00111	07-31-25
Oregon	NELAP	4175	02-02-26
USDA	US Federal Programs	525-23-159-97150	06-08-26
Utah	NELAP	CA00111	02-28-26
Washington	State	C916	10-11-25

Method Summary

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-153961-1
SDG: Weekly

Method	Method Description	Protocol	Laboratory
525.2	Semivolatile Organic Compounds (GC/MS)	EPA	EA POM
625.1	Semivolatile Organic Compounds (GC/MS)	EPA	EET CAL 4
625.1 SIM	Semivolatile Organic Compounds GC/MS (SIM)	EPA	EET CAL 4
8015B GRO LL	Gasoline Range Organics - (GC)	SW846	EET CAL 4
8015B	Diesel Range Organics (DRO) (GC) Low Level	SW846	EET CAL 4
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET CAL 4
5030C	Purge and Trap	SW846	EET CAL 4
525.2	Extraction of Semivolatile Compounds	EPA	EA POM
625.1	Liquid-Liquid Extraction	40CFR136A	EET CAL 4

Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

EPA = US Environmental Protection Agency

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

Laboratory References:

EA POM = Eurofins Eaton Analytical Pomona, 941 Corporate Center Drive, Pomona, CA 91768-2642, TEL (626)386-1100

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Sample Summary

Client: City & County of Honolulu
Project/Site: RED-HILL

Job ID: 380-153961-1
SDG: Weekly

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
380-153961-1	Ka'amilo Wells Pump 1	Water	06/03/25 09:55	06/05/25 09:34
380-153961-2	TB: Ka'amilo Well Pump 1	Water	06/03/25 09:55	06/05/25 09:34
380-153961-3	Ka'amilo Wells Pump 2	Water	06/03/25 10:35	06/05/25 09:34
380-153961-4	TB: Ka'amilo Wells Pump 2	Water	06/03/25 10:35	06/05/25 09:34

Chain of Custody Record

Client Information		Lab PM		Carrier Tracking No(s)		COC No:					
Client Contact: Mr Kirk Iwamoto		Olaf Happe		Arada Rachelle		380-28005-2757 1					
Phone: +1 808 748 5840		E-Mail: Rachelle.Arada@eurofins.com		State of Origin:		Page: Page 1 of 1					
Company: City & County of Honolulu		PWSID:		Analysis Requested		Job #:					
Address: 630 South Beretania Street Chemistry Lab		Due Date Requested		537 1_DW_PREC - (MOD) 525plus Plus TICs		Preservation Codes: R - NaThioSO4 RA - NaThioHCl Q - Na2SO3 QA - Na2SO3/HCl Y - Trizma I - NH4 Acetate					
City: Honolulu		TAT Requested (days):		537 1_DW_PREC - 537 1 Full List		Other:					
State Zip: HI, 96843		Compliance Project: ☐ Yes ☒ No		525 2_PREC - (MOD) 525plus Plus TICs		Total Number of Containers					
Phone: 808-748-5840 (Tel)		PO #: C20525101 exp 05312023		8015B_DRO_LL_CS - HNL Ranges C10-C24/C24-C36/C8-C18		Special Instructions/Note:					
Email: kiwamoto@hbws.org		WO #:		8015B_GRO_LL (MOD) GRO		Other:					
Project Name: RED-HILL/HBWS Sites Event Desc: RUSH Weekly Red Hill		Project #: 38001111		625 1, 625 1 SIM		Special Instructions/Note:					
Site: Hawaii		SSOW#:		Field Filtered Sample (Yes or No)		Special Instructions/Note:					
Sample Identification		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Matrix (W=water, S=solid, O=soil, A=air)		Preservation Code:	
Ka'amilo Wells Pump 1		3-Jun-2025		0955		Water		Water		537 1, 625 1 SIM	
Ka'amilo Wells Pump 1 (Matrix Spike)						Water		Water		525 2_PREC - (MOD) 525plus Plus TICs	
Ka'amilo Wells Pump 1 (Matrix Spike Duplicate)						Water		Water		537 1_DW_PREC - 537 1 Full List	
TB: Ka'amilo Wells Pump 1		3-Jun-2025		0955		Water		Water		525 2_PREC - (MOD) 525plus Plus TICs	
Ka'amilo Wells Pump 2		3-Jun-2025		1035		Water		Water		537 1_DW_PREC - 537 1 Full List	
Ka'amilo Wells Pump 2 (Matrix Spike)						Water		Water		525 2_PREC - (MOD) 525plus Plus TICs	
Ka'amilo Wells Pump 2 (Matrix Spike Duplicate)						Water		Water		537 1_DW_PREC - 537 1 Full List	
TB: Ka'amilo Wells Pump 2		3-Jun-2025		1035		Water		Water		525 2_PREC - (MOD) 525plus Plus TICs	
Possible Hazard Identification		☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological		Date:		Time:		Company:		Special Instructions/QC Requirements:	
Deliverable Requested 1, II, III IV Other (specify)				6-4 25 1100		09:34		ECAP		Special Instructions/QC Requirements:	
Empty Kit Relinquished by:										Special Instructions/QC Requirements:	
Relinquished by:										Special Instructions/QC Requirements:	
Relinquished by:										Special Instructions/QC Requirements:	
Relinquished by:										Special Instructions/QC Requirements:	
Custody Seals Intact: ☐ Yes ☒ No		Custody Seal No		Cylinder Temperature(s) °C and Other Remarks:		Cylinder Temperature(s) °C and Other Remarks:		Cylinder Temperature(s) °C and Other Remarks:		Cylinder Temperature(s) °C and Other Remarks:	

Chain of Custody Record

Client Information		Lab PM		Carrier Tracking No(s)		COC No:					
Client Contact: Mr Kirk Iwamoto		Olaf Happe		Arada Rachelle		380-28005-2757 1					
Phone: +1 808 748 5840		E-Mail: Rachelle.Arada@et.eurofins.com		State of Origin:		Page: Page 1 of 1					
Company: City & County of Honolulu		PWSID:		Analysis Requested		Job #:					
Address: 630 South Beretania Street Chemistry Lab		Due Date Requested		533 - All Analytes		Preservation Codes: R - NaThioSO4 RA - NaThioHCl Q - Na2SO3 QA - Na2SO3/HCl Y - Trizma I - NH4 Acetate					
City: Honolulu		TAT Requested (days):		537 1_DW_PREC - 537 1 Full List		Other:					
State Zip: HI, 96843		Compliance Project: ☐ Yes ☒ No		525 2_PREC - (MOD) 525plus Plus TICs		Total Number of Containers					
Phone: 808-748-5840 (Tel)		PO #: C20525101 exp 05312023		8015B_DRO_LL_CS - HNL Ranges C10-C24/C24-C36/C8-C18		Special Instructions/Note:					
Email: kiwamoto@hbws.org		WO #:		8015B_GRO_LL (MOD) GRO		Other:					
Project Name: RED-HILL/HBWS Sites Event Desc: RUSH Weekly Red Hill		Project #: 38001111		625 1, 625 1_SIM		Special Instructions/Note:					
Site: Hawaii		SSOW#:		Field Filtered Sample (Yes or No)		Other:					
Sample Identification		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Matrix (W=water, S=solid, O=soil, A=air)		Preservation Code:	
Ka'amilo Wells Pump 1		3-Jun-2025		0955		Water		Water		2	
Ka'amilo Wells Pump 1 (Matrix Spike)						Water		Water		2	
Ka'amilo Wells Pump 1 (Matrix Spike Duplicate)						Water		Water		2	
TB: Ka'amilo Wells Pump 1		3-Jun-2025		0955		Water		Water		2	
Ka'amilo Wells Pump 2		3-Jun-2025		1035		Water		Water		2	
Ka'amilo Wells Pump 2 (Matrix Spike)						Water		Water		2	
Ka'amilo Wells Pump 2 (Matrix Spike Duplicate)						Water		Water		2	
TB: Ka'amilo Wells Pump 2		3-Jun-2025		1035		Water		Water		2	
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)		Empty Kit Relinquished by		Date:		Time:		Special Instructions/QC Requirements			
Relinquished by		Date/Time:		6-4 25 1100		Company		Method of Shipment: FEDEX			
Relinquished by		Date/Time:				Company		Date/Time: 060525 09:34			
Relinquished by		Date/Time:				Company		Date/Time: 060525 09:34			
Custody Seal No		Custody Seal No		Custody Seal No		Custody Seal No		Custody Seal No			
Custody Seals Intact: ☐ Yes ☒ No		Custody Seals Intact: ☐ Yes ☒ No		Custody Seals Intact: ☐ Yes ☒ No		Custody Seals Intact: ☐ Yes ☒ No		Custody Seals Intact: ☐ Yes ☒ No			
Cylinder Temperature(s) °C and Other Remarks:		Cylinder Temperature(s) °C and Other Remarks:		Cylinder Temperature(s) °C and Other Remarks:		Cylinder Temperature(s) °C and Other Remarks:		Cylinder Temperature(s) °C and Other Remarks:			
75.1 (1) 1.8 - 0.0 = 1.8		75.1 (1) 1.8 - 0.0 = 1.8		75.1 (1) 1.8 - 0.0 = 1.8		75.1 (1) 1.8 - 0.0 = 1.8		75.1 (1) 1.8 - 0.0 = 1.8			
Ver 04/02/2024		Ver 04/02/2024		Ver 04/02/2024		Ver 04/02/2024		Ver 04/02/2024			

Chain of Custody Record



Client Information (Sub Contract Lab)		Sample:		Lab PM:		Carrier Tracking No(s):		COC No:				
Client Contact: Shipping/Receiving		N/A		Lopez, Maria		N/A		380-219486.1				
Phone:		E-Mail:		State of Origin:		Page:						
N/A		Maria.Lopez@et.eurofinsus.com		Hawaii		Page 1 of 1						
Company: Eurofins Environment Testing Southwest,				Accreditations Required (See note): State - Hawaii				Job #: 380-153961-1				
Address: 2841 Dow Avenue, Suite 100,				Due Date Requested: 6/18/2025				Preservation Codes:				
City: Tustin				TAT Requested (days): N/A								
State, Zip: CA, 92780												
Phone: 714-895-5494(Tel)				PO #: N/A								
Email: N/A				WO #: N/A								
Project Name: RED-HILL				Project #: 38001111								
Site: Honolulu BWS Sites				SSOW#: N/A				Other: N/A				
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=comp, G=grab) BT=Tissue, A=Air	Matrix (W=water, S=solid, O=oils) BT=Tissue, A=Air	Field Filtered Sample (Yes or No)	Perform MSMSD (Yes or No)	8015B_DRO_LL_CS3351DC_LL_HNL Ranges: C10-C24/C24-C36/C36-C18	8015B_GRO_LL/SO30C (MOD) GRO	625.1_SIM625_Prep (MOD) Extended PAH List	Total Number of Containers	Special Instructions/Note:
				Preservation Code:		X	X	X			8	MRLs are needed. Confirm any hits >RL.
Ka'amilo Wells Pump 1 (380-153961-1)	6/3/25	09:55 Hawaiian	G	Water			X	X	X		8	MRLs are needed.
TB: Ka'amilo Well Pump 1 (380-153961-2)	6/3/25	09:55 Hawaiian	G	Water				X			7	MRLs are needed. Confirm any hits >RL.
Ka'amilo Wells Pump 2 (380-153961-3)	6/3/25	10:35 Hawaiian	G	Water			X	X	X		7	MRLs are needed.
TB: Ka'amilo Wells Pump 2 (380-153961-4)	6/3/25	10:35 Hawaiian	G	Water				X			2	

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/test/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.

Possible Hazard Identification		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
Unconfirmed		☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months	
Deliverable Requested: I, II, III, IV, Other (specify)		Special Instructions/QC Requirements:	
Primary Deliverable Rank: 2			
Empty Kit Relinquished by:		Method of Shipment:	
Date:		Time:	
Relinquished by: <i>Mark Vortan</i>	Date/Time: <i>6/5/25 1500</i>	Company: <i>EEAP</i>	Received by: <i>W</i>
Relinquished by: <i>Erin Lemi</i>	Date/Time: <i>6/5/25 1550</i>	Company: <i>WP</i>	Date/Time: <i>6/5/25 1500</i>
Relinquished by:	Date/Time:	Company:	Received by:
Custody Seals Intact:	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:	
Δ Yes Δ No		<i>1.3 1.8 sec</i>	

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

Chain of Custody Record



Environ

Loc: 380

153961

[illegible]

Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-153961-1

SDG Number: Weekly

Login Number: 153961

List Source: Eurofins Eaton Analytical Pomona

List Number: 1

Creator: Segura, Ryan

Question	Answer	Comment
The coolers custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
Samples were received on ice.	True	
Cooler(s) Temperature is acceptable.	True	
Cooler(s) Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and is 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	
CIO4 headspace requirement met (>50% for CA, >30% for other states).	True	
Samples do not require splitting or compositing.	True	
Container provided by EEA	True	

Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-153961-1

SDG Number: Weekly

Login Number: 153961

List Number: 2

Creator: Khana, Piyush

List Source: Eurofins Calscience

List Creation: 06/05/25 06:14 PM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ 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.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.8
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	Received project as a subcontract.
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 $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	