

ANALYTICAL REPORT

PREPARED FOR

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

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JOB DESCRIPTION

RED-HILL
Weekly

JOB NUMBER

380-135326-1

Eurofins Eaton Analytical Pomona

Job Notes

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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



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



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Definitions/Glossary

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

Job ID: 380-135326-1
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 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.

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: 380-135326-1

Job ID: 380-135326-1

Eurofins Eaton Analytical Pomona

Job Narrative 380-135326-1

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 2/12/2025 9:44 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 2.5°C and 5.3°C.

GC/MS Semi VOA

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.

Detection Summary

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

Job ID: 380-135326-1
SDG: Weekly

Client Sample ID: Ka'amilo Wells

Lab Sample ID: 380-135326-1

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Dieldrin	0.033		0.0097	ug/L	1		525.2	Total/NA

Client Sample ID: TB: Ka'amilo Wells

Lab Sample ID: 380-135326-2

No Detections.

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This Detection Summary does not include radiochemical test results.

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Client Sample Results

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

Job ID: 380-135326-1
SDG: Weekly

Client Sample ID: Ka'amilo Wells

Lab Sample ID: 380-135326-1

Date Collected: 02/10/25 11:47

Matrix: Water

Date Received: 02/12/25 09:44

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.097		0.097	ug/L		02/13/25 13:47	02/14/25 16:10	1
2,4'-DDD	<0.097		0.097	ug/L		02/13/25 13:47	02/14/25 16:10	1
2,4'-DDE	<0.097		0.097	ug/L		02/13/25 13:47	02/14/25 16:10	1
2,4'-DDT	<0.097		0.097	ug/L		02/13/25 13:47	02/14/25 16:10	1
2,4-Dinitrotoluene	<0.097		0.097	ug/L		02/13/25 13:47	02/14/25 16:10	1
2,6-Dinitrotoluene	<0.097		0.097	ug/L		02/13/25 13:47	02/14/25 16:10	1
2-Methylnaphthalene	<0.097		0.097	ug/L		02/13/25 13:47	02/14/25 16:10	1
4,4'-DDD	<0.097		0.097	ug/L		02/13/25 13:47	02/14/25 16:10	1
4,4'-DDE	<0.097		0.097	ug/L		02/13/25 13:47	02/14/25 16:10	1
4,4'-DDT	<0.097		0.097	ug/L		02/13/25 13:47	02/14/25 16:10	1
Acenaphthene	<0.097		0.097	ug/L		02/13/25 13:47	02/14/25 16:10	1
Acenaphthylene	<0.097		0.097	ug/L		02/13/25 13:47	02/14/25 16:10	1
Acetochlor	<0.097		0.097	ug/L		02/13/25 13:47	02/14/25 16:10	1
Alachlor	<0.048		0.048	ug/L		02/13/25 13:47	02/14/25 16:10	1
alpha-BHC	<0.097		0.097	ug/L		02/13/25 13:47	02/14/25 16:10	1
alpha-Chlordane	<0.048		0.048	ug/L		02/13/25 13:47	02/14/25 16:10	1
Anthracene	<0.019		0.019	ug/L		02/13/25 13:47	02/14/25 16:10	1
Atrazine	<0.048		0.048	ug/L		02/13/25 13:47	02/14/25 16:10	1
Benz(a)anthracene	<0.048		0.048	ug/L		02/13/25 13:47	02/14/25 16:10	1
Benzo[a]pyrene	<0.019		0.019	ug/L		02/13/25 13:47	02/14/25 16:10	1
Benzo[b]fluoranthene	<0.019		0.019	ug/L		02/13/25 13:47	02/14/25 16:10	1
Benzo[g,h,i]perylene	<0.048		0.048	ug/L		02/13/25 13:47	02/14/25 16:10	1
Benzo[k]fluoranthene	<0.019		0.019	ug/L		02/13/25 13:47	02/14/25 16:10	1
beta-BHC	<0.097		0.097	ug/L		02/13/25 13:47	02/14/25 16:10	1
Bis(2-ethylhexyl) phthalate	<0.58		0.58	ug/L		02/13/25 13:47	02/14/25 16:10	1
Bromacil	<0.097		0.097	ug/L		02/13/25 13:47	02/14/25 16:10	1
Butachlor	<0.048		0.048	ug/L		02/13/25 13:47	02/14/25 16:10	1
Butylbenzylphthalate	<0.48		0.48	ug/L		02/13/25 13:47	02/14/25 16:10	1
Chlorobenzilate	<0.097		0.097	ug/L		02/13/25 13:47	02/14/25 16:10	1
Chloroneb	<0.097		0.097	ug/L		02/13/25 13:47	02/14/25 16:10	1
Chlorothalonil (Draconil, Bravo)	<0.097		0.097	ug/L		02/13/25 13:47	02/14/25 16:10	1
Chlorpyrifos	<0.048		0.048	ug/L		02/13/25 13:47	02/14/25 16:10	1
Chrysene	<0.019		0.019	ug/L		02/13/25 13:47	02/14/25 16:10	1
delta-BHC	<0.097		0.097	ug/L		02/13/25 13:47	02/14/25 16:10	1
Di(2-ethylhexyl)adipate	<0.58		0.58	ug/L		02/13/25 13:47	02/14/25 16:10	1
Dibenz(a,h)anthracene	<0.048		0.048	ug/L		02/13/25 13:47	02/14/25 16:10	1
Diclorvos (DDVP)	<0.048		0.048	ug/L		02/13/25 13:47	02/14/25 16:10	1
Dieldrin	0.033		0.0097	ug/L		02/13/25 13:47	02/14/25 16:10	1
Diethylphthalate	<0.48		0.48	ug/L		02/13/25 13:47	02/14/25 16:10	1
Dimethylphthalate	<0.48		0.48	ug/L		02/13/25 13:47	02/14/25 16:10	1
Di-n-butyl phthalate	<0.97		0.97	ug/L		02/13/25 13:47	02/14/25 16:10	1
Di-n-octyl phthalate	<0.097		0.097	ug/L		02/13/25 13:47	02/14/25 16:10	1
Endosulfan I (Alpha)	<0.097		0.097	ug/L		02/13/25 13:47	02/14/25 16:10	1
Endosulfan II (Beta)	<0.097		0.097	ug/L		02/13/25 13:47	02/14/25 16:10	1
Endosulfan sulfate	<0.097		0.097	ug/L		02/13/25 13:47	02/14/25 16:10	1
Endrin	<0.0097		0.0097	ug/L		02/13/25 13:47	02/14/25 16:10	1
Endrin aldehyde	<0.097		0.097	ug/L		02/13/25 13:47	02/14/25 16:10	1
EPTC	<0.097		0.097	ug/L		02/13/25 13:47	02/14/25 16:10	1
Fluoranthene	<0.097		0.097	ug/L		02/13/25 13:47	02/14/25 16:10	1

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Client Sample Results

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

Job ID: 380-135326-1
SDG: Weekly

Client Sample ID: Ka'amilo Wells

Lab Sample ID: 380-135326-1

Date Collected: 02/10/25 11:47

Matrix: Water

Date Received: 02/12/25 09:44

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	<0.048		0.048	ug/L		02/13/25 13:47	02/14/25 16:10	1
gamma-Chlordane	<0.048		0.048	ug/L		02/13/25 13:47	02/14/25 16:10	1
Heptachlor	<0.0097		0.0097	ug/L		02/13/25 13:47	02/14/25 16:10	1
Heptachlor epoxide (isomer B)	<0.0097		0.0097	ug/L		02/13/25 13:47	02/14/25 16:10	1
Hexachlorobenzene	<0.048		0.048	ug/L		02/13/25 13:47	02/14/25 16:10	1
Hexachlorocyclopentadiene	<0.048		0.048	ug/L		02/13/25 13:47	02/14/25 16:10	1
Indeno[1,2,3-cd]pyrene	<0.048		0.048	ug/L		02/13/25 13:47	02/14/25 16:10	1
Isophorone	<0.097		0.097	ug/L		02/13/25 13:47	02/14/25 16:10	1
Lindane	<0.0097		0.0097	ug/L		02/13/25 13:47	02/14/25 16:10	1
Malathion	<0.097		0.097	ug/L		02/13/25 13:47	02/14/25 16:10	1
Methoxychlor	<0.048		0.048	ug/L		02/13/25 13:47	02/14/25 16:10	1
Metolachlor	<0.048		0.048	ug/L		02/13/25 13:47	02/14/25 16:10	1
Molinate	<0.097		0.097	ug/L		02/13/25 13:47	02/14/25 16:10	1
Naphthalene	<0.097		0.097	ug/L		02/13/25 13:47	02/14/25 16:10	1
Parathion	<0.097		0.097	ug/L		02/13/25 13:47	02/14/25 16:10	1
Pendimethalin (Penoxaline)	<0.097		0.097	ug/L		02/13/25 13:47	02/14/25 16:10	1
Phenanthrene	<0.039		0.039	ug/L		02/13/25 13:47	02/14/25 16:10	1
Propachlor	<0.048		0.048	ug/L		02/13/25 13:47	02/14/25 16:10	1
Pyrene	<0.048		0.048	ug/L		02/13/25 13:47	02/14/25 16:10	1
Simazine	<0.048		0.048	ug/L		02/13/25 13:47	02/14/25 16:10	1
Terbacil	<0.097		0.097	ug/L		02/13/25 13:47	02/14/25 16:10	1
Terbutylazine	<0.097		0.097	ug/L		02/13/25 13:47	02/14/25 16:10	1
Thiobencarb	<0.097		0.097	ug/L		02/13/25 13:47	02/14/25 16:10	1
Total Permethrin (mixed isomers)	<0.19		0.19	ug/L		02/13/25 13:47	02/14/25 16:10	1
trans-Nonachlor	<0.048		0.048	ug/L		02/13/25 13:47	02/14/25 16:10	1
Trifluralin	<0.097		0.097	ug/L		02/13/25 13:47	02/14/25 16:10	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	02/13/25 13:47	02/14/25 16:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	98		70 - 130	02/13/25 13:47	02/14/25 16:10	1
Perylene-d12	100		70 - 130	02/13/25 13:47	02/14/25 16:10	1
Triphenylphosphate	100		70 - 130	02/13/25 13:47	02/14/25 16:10	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		02/14/25 11:59	02/21/25 13:53	1
2-Methylnaphthalene	<0.19		0.19	ug/L		02/14/25 11:59	02/21/25 13:53	1
Acenaphthene	<0.19		0.19	ug/L		02/14/25 11:59	02/21/25 13:53	1
Acenaphthylene	<0.19		0.19	ug/L		02/14/25 11:59	02/21/25 13:53	1
Anthracene	<0.19		0.19	ug/L		02/14/25 11:59	02/21/25 13:53	1
Benzo[a]anthracene	<0.19		0.19	ug/L		02/14/25 11:59	02/21/25 13:53	1
Benzo[a]pyrene	<0.19		0.19	ug/L		02/14/25 11:59	02/21/25 13:53	1
Benzo[b]fluoranthene	<0.19		0.19	ug/L		02/14/25 11:59	02/21/25 13:53	1
Benzo[g,h,i]perylene	<0.19		0.19	ug/L		02/14/25 11:59	02/21/25 13:53	1
Benzo[k]fluoranthene	<0.19		0.19	ug/L		02/14/25 11:59	02/21/25 13:53	1
Chrysene	<0.19		0.19	ug/L		02/14/25 11:59	02/21/25 13:53	1
Dibenz(a,h)anthracene	<0.19		0.19	ug/L		02/14/25 11:59	02/21/25 13:53	1
Fluoranthene	<0.19		0.19	ug/L		02/14/25 11:59	02/21/25 13:53	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-135326-1
SDG: Weekly

Client Sample ID: Ka'amilo Wells

Lab Sample ID: 380-135326-1

Date Collected: 02/10/25 11:47

Matrix: Water

Date Received: 02/12/25 09:44

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	<0.19		0.19	ug/L		02/14/25 11:59	02/21/25 13:53	1
Indeno[1,2,3-cd]pyrene	<0.19		0.19	ug/L		02/14/25 11:59	02/21/25 13:53	1
Naphthalene	<0.19		0.19	ug/L		02/14/25 11:59	02/21/25 13:53	1
Phenanthrene	<0.19		0.19	ug/L		02/14/25 11:59	02/21/25 13:53	1
Pyrene	<0.19		0.19	ug/L		02/14/25 11:59	02/21/25 13:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	72		28 - 127	02/14/25 11:59	02/21/25 13:53	1
2-Fluorobiphenyl (Surr)	67		31 - 120	02/14/25 11:59	02/21/25 13:53	1
2-Fluorophenol (Surr)	41		17 - 120	02/14/25 11:59	02/21/25 13:53	1
Nitrobenzene-d5 (Surr)	78		27 - 120	02/14/25 11:59	02/21/25 13:53	1
Phenol-d6 (Surr)	24		10 - 120	02/14/25 11:59	02/21/25 13:53	1
p-Terphenyl-d14 (Surr)	75		45 - 120	02/14/25 11:59	02/21/25 13:53	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
Butanamide	13	T J N	ug/L		2.15	541-35-5	02/14/25 11:59	02/21/25 18:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	66		33 - 139	02/14/25 11:59	02/21/25 18:25	1
2-Fluorobiphenyl (Surr)	70		33 - 126	02/14/25 11:59	02/21/25 18:25	1
2-Fluorophenol (Surr)	45		12 - 120	02/14/25 11:59	02/21/25 18:25	1
Nitrobenzene-d5 (Surr)	81		36 - 120	02/14/25 11:59	02/21/25 18:25	1
Phenol-d6 (Surr)	27		10 - 120	02/14/25 11:59	02/21/25 18:25	1
p-Terphenyl-d14 (Surr)	60		47 - 131	02/14/25 11:59	02/21/25 18:25	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			02/20/25 21:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		38 - 134		02/20/25 21:18	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		02/17/25 15:29	02/25/25 01:22	1
Motor Oil Range Organics [C24-C36]	<26		26	ug/L		02/17/25 15:29	02/25/25 01:22	1
C8-C18	<26		26	ug/L		02/17/25 15:29	02/25/25 01:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	89		60 - 130	02/17/25 15:29	02/25/25 01:22	1

Client Sample ID: TB: Ka'amilo Wells

Lab Sample ID: 380-135326-2

Date Collected: 02/10/25 11:47

Matrix: Water

Date Received: 02/12/25 09:44

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			02/20/25 18:46	1

Client Sample Results

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

Job ID: 380-135326-1
SDG: Weekly

Client Sample ID: TB: Ka'amilo Wells

Lab Sample ID: 380-135326-2

Date Collected: 02/10/25 11:47

Matrix: Water

Date Received: 02/12/25 09:44

<u>Surrogate</u>	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Dil Fac</u>
4-Bromofluorobenzene (Surr)	81		38 - 134		02/20/25 18:46	1

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Action Limit Summary

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

Job ID: 380-135326-1
SDG: Weekly

Client Sample ID: Ka'amilo Wells

Lab Sample ID: 380-135326-1

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	<0.048		ug/L	2	0.048	525.2	Total/NA
Atrazine	<0.048		ug/L	3	0.048	525.2	Total/NA
Benzo[a]pyrene	<0.019		ug/L	0.2	0.019	525.2	Total/NA
Bis(2-ethylhexyl) phthalate	<0.58		ug/L	6	0.58	525.2	Total/NA
Di(2-ethylhexyl)adipate	<0.58		ug/L	400	0.58	525.2	Total/NA
Endrin	<0.0097		ug/L	2	0.0097	525.2	Total/NA
Heptachlor	<0.0097		ug/L	0.4	0.0097	525.2	Total/NA
Heptachlor epoxide (isomer B)	<0.0097		ug/L	0.2	0.0097	525.2	Total/NA
Hexachlorobenzene	<0.048		ug/L	1	0.048	525.2	Total/NA
Hexachlorocyclopentadiene	<0.048		ug/L	50	0.048	525.2	Total/NA
Lindane	<0.0097		ug/L	0.2	0.0097	525.2	Total/NA
Methoxychlor	<0.048		ug/L	40	0.048	525.2	Total/NA
Simazine	<0.048		ug/L	4	0.048	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: 380-135326-1
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)
380-135326-1	Ka'amilo Wells	98	100	100
380-135326-1 DU	Ka'amilo Wells	97	98	103
380-135329-B-1-A MS	Matrix Spike	98	100	103
LCS 380-135012/23-A	Lab Control Sample	97	99	106
LCSD 380-135012/24-A	Lab Control Sample Dup	98	99	108
MB 380-135012/21-A	Method Blank	96	98	100
MRL 380-135012/22-A	Lab Control Sample	98	99	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)
380-135326-1	Ka'amilo Wells	66	70	45	81	27	60
MB 570-533965/1-A	Method Blank	71	76	53	78	31	64

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)
380-135325-A-1-B MS	Matrix Spike	82	76	53	76	33	75
380-135325-A-1-C MSD	Matrix Spike Duplicate	84	80	55	77	34	82
380-135326-1	Ka'amilo Wells	72	67	41	78	24	75
LCS 570-533965/2-A	Lab Control Sample	84	77	55	77	34	80
LCSD 570-533965/3-A	Lab Control Sample Dup	84	78	56	76	34	81
MB 570-533965/1-A	Method Blank	74	68	44	78	27	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)

Surrogate Summary

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

Job ID: 380-135326-1
 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)
380-135325-C-1 MS	Matrix Spike	92
380-135325-C-1 MSD	Matrix Spike Duplicate	95
380-135326-1	Ka'amilo Wells	80
380-135326-2	TB: Ka'amilo Wells	81
LCS 570-536151/1008	Lab Control Sample	92
LCSD 570-536151/9	Lab Control Sample Dup	90
MB 570-536151/10	Method Blank	77
MRL 570-536151/1003	Lab Control Sample	82

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)
380-135325-B-1-A MS	Matrix Spike	99
380-135325-B-1-B MSD	Matrix Spike Duplicate	96
380-135326-1	Ka'amilo Wells	89
LCS 570-534854/2-A	Lab Control Sample	95
LCSD 570-534854/3-A	Lab Control Sample Dup	100
MB 570-534854/1-A	Method Blank	103
MRL 570-534854/4-A	Lab Control Sample	97

Surrogate Legend

OTCSN = n-Octacosane (Surr)

QC Sample Results

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

Job ID: 380-135326-1
 SDG: Weekly

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

Lab Sample ID: MB 380-135012/21-A
Matrix: Water
Analysis Batch: 135356

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 135012

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.099		0.099	ug/L		02/13/25 13:47	02/14/25 15:28	1
2,4'-DDD	<0.099		0.099	ug/L		02/13/25 13:47	02/14/25 15:28	1
2,4'-DDE	<0.099		0.099	ug/L		02/13/25 13:47	02/14/25 15:28	1
2,4'-DDT	<0.099		0.099	ug/L		02/13/25 13:47	02/14/25 15:28	1
2,4-Dinitrotoluene	<0.099		0.099	ug/L		02/13/25 13:47	02/14/25 15:28	1
2,6-Dinitrotoluene	<0.099		0.099	ug/L		02/13/25 13:47	02/14/25 15:28	1
2-Methylnaphthalene	<0.099		0.099	ug/L		02/13/25 13:47	02/14/25 15:28	1
4,4'-DDD	<0.099		0.099	ug/L		02/13/25 13:47	02/14/25 15:28	1
4,4'-DDE	<0.099		0.099	ug/L		02/13/25 13:47	02/14/25 15:28	1
4,4'-DDT	<0.099		0.099	ug/L		02/13/25 13:47	02/14/25 15:28	1
Acenaphthene	<0.099		0.099	ug/L		02/13/25 13:47	02/14/25 15:28	1
Acenaphthylene	<0.099		0.099	ug/L		02/13/25 13:47	02/14/25 15:28	1
Acetochlor	<0.099		0.099	ug/L		02/13/25 13:47	02/14/25 15:28	1
Alachlor	<0.049		0.049	ug/L		02/13/25 13:47	02/14/25 15:28	1
alpha-BHC	<0.099		0.099	ug/L		02/13/25 13:47	02/14/25 15:28	1
alpha-Chlordane	<0.049		0.049	ug/L		02/13/25 13:47	02/14/25 15:28	1
Anthracene	<0.020		0.020	ug/L		02/13/25 13:47	02/14/25 15:28	1
Atrazine	<0.049		0.049	ug/L		02/13/25 13:47	02/14/25 15:28	1
Benz(a)anthracene	<0.049		0.049	ug/L		02/13/25 13:47	02/14/25 15:28	1
Benzo[a]pyrene	<0.020		0.020	ug/L		02/13/25 13:47	02/14/25 15:28	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		02/13/25 13:47	02/14/25 15:28	1
Benzo[g,h,i]perylene	<0.049		0.049	ug/L		02/13/25 13:47	02/14/25 15:28	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		02/13/25 13:47	02/14/25 15:28	1
beta-BHC	<0.099		0.099	ug/L		02/13/25 13:47	02/14/25 15:28	1
Bis(2-ethylhexyl) phthalate	<0.59		0.59	ug/L		02/13/25 13:47	02/14/25 15:28	1
Bromacil	<0.099		0.099	ug/L		02/13/25 13:47	02/14/25 15:28	1
Butachlor	<0.049		0.049	ug/L		02/13/25 13:47	02/14/25 15:28	1
Butylbenzylphthalate	<0.49		0.49	ug/L		02/13/25 13:47	02/14/25 15:28	1
Chlorobenzilate	<0.099		0.099	ug/L		02/13/25 13:47	02/14/25 15:28	1
Chloroneb	<0.099		0.099	ug/L		02/13/25 13:47	02/14/25 15:28	1
Chlorothalonil (Draconil, Bravo)	<0.099		0.099	ug/L		02/13/25 13:47	02/14/25 15:28	1
Chlorpyrifos	<0.049		0.049	ug/L		02/13/25 13:47	02/14/25 15:28	1
Chrysene	<0.020		0.020	ug/L		02/13/25 13:47	02/14/25 15:28	1
delta-BHC	<0.099		0.099	ug/L		02/13/25 13:47	02/14/25 15:28	1
Di(2-ethylhexyl)adipate	<0.59		0.59	ug/L		02/13/25 13:47	02/14/25 15:28	1
Dibenz(a,h)anthracene	<0.049		0.049	ug/L		02/13/25 13:47	02/14/25 15:28	1
Diclorvos (DDVP)	<0.049		0.049	ug/L		02/13/25 13:47	02/14/25 15:28	1
Dieldrin	<0.0099		0.0099	ug/L		02/13/25 13:47	02/14/25 15:28	1
Diethylphthalate	<0.49		0.49	ug/L		02/13/25 13:47	02/14/25 15:28	1
Dimethylphthalate	<0.49		0.49	ug/L		02/13/25 13:47	02/14/25 15:28	1
Di-n-butyl phthalate	<0.99		0.99	ug/L		02/13/25 13:47	02/14/25 15:28	1
Di-n-octyl phthalate	<0.099		0.099	ug/L		02/13/25 13:47	02/14/25 15:28	1
Endosulfan I (Alpha)	<0.099		0.099	ug/L		02/13/25 13:47	02/14/25 15:28	1
Endosulfan II (Beta)	<0.099		0.099	ug/L		02/13/25 13:47	02/14/25 15:28	1
Endosulfan sulfate	<0.099		0.099	ug/L		02/13/25 13:47	02/14/25 15:28	1
Endrin	<0.0099		0.0099	ug/L		02/13/25 13:47	02/14/25 15:28	1
Endrin aldehyde	<0.099		0.099	ug/L		02/13/25 13:47	02/14/25 15:28	1
EPTC	<0.099		0.099	ug/L		02/13/25 13:47	02/14/25 15:28	1

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QC Sample Results

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

Job ID: 380-135326-1
SDG: Weekly

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

Lab Sample ID: MB 380-135012/21-A
Matrix: Water
Analysis Batch: 135356

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 135012

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	<0.099		0.099	ug/L		02/13/25 13:47	02/14/25 15:28	1
Fluorene	<0.049		0.049	ug/L		02/13/25 13:47	02/14/25 15:28	1
gamma-Chlordane	<0.049		0.049	ug/L		02/13/25 13:47	02/14/25 15:28	1
Heptachlor	<0.0099		0.0099	ug/L		02/13/25 13:47	02/14/25 15:28	1
Heptachlor epoxide (isomer B)	<0.0099		0.0099	ug/L		02/13/25 13:47	02/14/25 15:28	1
Hexachlorobenzene	<0.049		0.049	ug/L		02/13/25 13:47	02/14/25 15:28	1
Hexachlorocyclopentadiene	<0.049		0.049	ug/L		02/13/25 13:47	02/14/25 15:28	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049	ug/L		02/13/25 13:47	02/14/25 15:28	1
Isophorone	<0.099		0.099	ug/L		02/13/25 13:47	02/14/25 15:28	1
Lindane	<0.0099		0.0099	ug/L		02/13/25 13:47	02/14/25 15:28	1
Malathion	<0.099		0.099	ug/L		02/13/25 13:47	02/14/25 15:28	1
Methoxychlor	<0.049		0.049	ug/L		02/13/25 13:47	02/14/25 15:28	1
Metolachlor	<0.049		0.049	ug/L		02/13/25 13:47	02/14/25 15:28	1
Molinate	<0.099		0.099	ug/L		02/13/25 13:47	02/14/25 15:28	1
Naphthalene	<0.099		0.099	ug/L		02/13/25 13:47	02/14/25 15:28	1
Parathion	<0.099		0.099	ug/L		02/13/25 13:47	02/14/25 15:28	1
Pendimethalin (Penoxaline)	<0.099		0.099	ug/L		02/13/25 13:47	02/14/25 15:28	1
Phenanthrene	<0.040		0.040	ug/L		02/13/25 13:47	02/14/25 15:28	1
Propachlor	<0.049		0.049	ug/L		02/13/25 13:47	02/14/25 15:28	1
Pyrene	<0.049		0.049	ug/L		02/13/25 13:47	02/14/25 15:28	1
Simazine	<0.049		0.049	ug/L		02/13/25 13:47	02/14/25 15:28	1
Terbacil	<0.099		0.099	ug/L		02/13/25 13:47	02/14/25 15:28	1
Terbutylazine	<0.099		0.099	ug/L		02/13/25 13:47	02/14/25 15:28	1
Thiobencarb	<0.099		0.099	ug/L		02/13/25 13:47	02/14/25 15:28	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		02/13/25 13:47	02/14/25 15:28	1
trans-Nonachlor	<0.049		0.049	ug/L		02/13/25 13:47	02/14/25 15:28	1
Trifluralin	<0.099		0.099	ug/L		02/13/25 13:47	02/14/25 15:28	1

<i>Tentatively Identified Compound</i>	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
<i>Unknown</i>	0.580	T J	ug/L		10.75	N/A	02/13/25 13:47	02/14/25 15:28	1

<i>Surrogate</i>	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>2-Nitro-m-xylene</i>	96		70 - 130	02/13/25 13:47	02/14/25 15:28	1
<i>Perylene-d12</i>	98		70 - 130	02/13/25 13:47	02/14/25 15:28	1
<i>Triphenylphosphate</i>	100		70 - 130	02/13/25 13:47	02/14/25 15:28	1

Lab Sample ID: LCS 380-135012/23-A
Matrix: Water
Analysis Batch: 135356

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 135012

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
1-Methylnaphthalene	1.97	1.76		ug/L		89	70 - 130
2,4'-DDD	1.97	2.02		ug/L		102	70 - 130
2,4'-DDE	1.97	1.93		ug/L		98	70 - 130
2,4'-DDT	1.97	2.08		ug/L		105	70 - 130
2,4-Dinitrotoluene	1.97	1.96		ug/L		99	70 - 130
2,6-Dinitrotoluene	1.97	2.04		ug/L		103	70 - 130
2-Methylnaphthalene	1.97	1.79		ug/L		91	70 - 130

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QC Sample Results

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

Job ID: 380-135326-1
SDG: Weekly

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

Lab Sample ID: LCS 380-135012/23-A
Matrix: Water
Analysis Batch: 135356

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 135012

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDD	1.97	2.06		ug/L		104	70 - 130
4,4'-DDE	1.97	1.98		ug/L		100	70 - 130
4,4'-DDT	1.97	1.98		ug/L		100	70 - 130
Acenaphthene	1.97	1.91		ug/L		97	70 - 130
Acenaphthylene	1.97	1.90		ug/L		96	70 - 130
Acetochlor	1.97	1.93		ug/L		98	70 - 130
Alachlor	1.97	1.97		ug/L		100	70 - 130
alpha-BHC	1.97	1.87		ug/L		95	70 - 130
alpha-Chlordane	1.97	1.94		ug/L		98	70 - 130
Anthracene	1.97	1.81		ug/L		92	70 - 130
Atrazine	1.97	2.07		ug/L		105	70 - 130
Benz(a)anthracene	1.97	2.00		ug/L		102	70 - 130
Benzo[a]pyrene	1.97	2.01		ug/L		102	70 - 130
Benzo[b]fluoranthene	1.97	2.09		ug/L		106	70 - 130
Benzo[g,h,i]perylene	1.97	2.00		ug/L		102	70 - 130
Benzo[k]fluoranthene	1.97	1.99		ug/L		101	70 - 130
beta-BHC	1.97	1.96		ug/L		99	70 - 130
Bis(2-ethylhexyl) phthalate	1.97	2.04		ug/L		104	70 - 130
Bromacil	1.97	1.99		ug/L		101	70 - 130
Butachlor	1.97	2.19		ug/L		111	70 - 130
Butylbenzylphthalate	1.97	2.09		ug/L		106	70 - 130
Chlorobenzilate	1.97	1.96		ug/L		99	70 - 130
Chloroneb	1.97	2.07		ug/L		105	70 - 130
Chlorothalonil (Draconil, Bravo)	1.97	2.10		ug/L		107	70 - 130
Chlorpyrifos	1.97	2.00		ug/L		102	70 - 130
Chrysene	1.97	1.89		ug/L		96	70 - 130
delta-BHC	1.97	1.88		ug/L		96	70 - 130
Di(2-ethylhexyl)adipate	1.97	2.16		ug/L		109	70 - 130
Dibenz(a,h)anthracene	1.97	1.97		ug/L		100	70 - 130
Diclorvos (DDVP)	1.97	2.01		ug/L		102	70 - 130
Dieldrin	1.97	1.91		ug/L		97	70 - 130
Diethylphthalate	1.97	1.97		ug/L		100	70 - 130
Dimethylphthalate	1.97	1.94		ug/L		98	70 - 130
Di-n-butyl phthalate	3.94	3.97		ug/L		101	70 - 130
Di-n-octyl phthalate	1.97	1.91		ug/L		97	70 - 130
Endosulfan I (Alpha)	1.97	1.88		ug/L		96	70 - 130
Endosulfan II (Beta)	1.97	1.98		ug/L		100	70 - 130
Endosulfan sulfate	1.97	2.04		ug/L		103	70 - 130
Endrin	1.97	2.01		ug/L		102	70 - 130
Endrin aldehyde	1.97	1.95		ug/L		99	60 - 130
EPTC	1.97	1.98		ug/L		101	70 - 130
Fluoranthene	1.97	2.02		ug/L		102	70 - 130
Fluorene	1.97	1.91		ug/L		97	70 - 130
gamma-Chlordane	1.97	1.95		ug/L		99	70 - 130
Heptachlor	1.97	2.00		ug/L		102	70 - 130
Heptachlor epoxide (isomer B)	1.97	1.96		ug/L		99	70 - 130
Hexachlorobenzene	1.97	1.78		ug/L		90	70 - 130
Hexachlorocyclopentadiene	1.97	1.72		ug/L		87	70 - 130
Indeno[1,2,3-cd]pyrene	1.97	1.98		ug/L		101	70 - 130

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QC Sample Results

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

Job ID: 380-135326-1
SDG: Weekly

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

Lab Sample ID: LCS 380-135012/23-A
Matrix: Water
Analysis Batch: 135356

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 135012

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Isophorone	1.97	1.98		ug/L		101	70 - 130
Lindane	1.97	1.90		ug/L		96	70 - 130
Malathion	1.97	1.99		ug/L		101	70 - 130
Methoxychlor	1.97	1.97		ug/L		100	70 - 130
Metolachlor	1.97	2.07		ug/L		105	70 - 130
Molinate	1.97	2.02		ug/L		102	70 - 130
Naphthalene	1.97	1.93		ug/L		98	70 - 130
Parathion	1.97	2.16		ug/L		110	70 - 130
Pendimethalin (Penoxaline)	1.97	2.01		ug/L		102	70 - 130
Phenanthrene	1.97	1.95		ug/L		99	70 - 130
Propachlor	1.97	2.05		ug/L		104	70 - 130
Pyrene	1.97	2.04		ug/L		104	70 - 130
Simazine	1.97	2.08		ug/L		105	70 - 130
Terbacil	1.97	2.21		ug/L		112	70 - 130
Terbutylazine	1.97	2.06		ug/L		104	70 - 130
Thiobencarb	1.97	2.18		ug/L		111	70 - 130
trans-Nonachlor	1.97	1.94		ug/L		98	70 - 130
Trifluralin	1.97	1.82		ug/L		92	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Nitro-m-xylene	97		70 - 130
Perylene-d12	99		70 - 130
Triphenylphosphate	106		70 - 130

Lab Sample ID: LCSD 380-135012/24-A
Matrix: Water
Analysis Batch: 135356

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 135012

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	1.97	1.78		ug/L		90	70 - 130	1	20
2,4'-DDD	1.97	2.05		ug/L		104	70 - 130	1	20
2,4'-DDE	1.97	1.96		ug/L		99	70 - 130	1	20
2,4'-DDT	1.97	2.08		ug/L		106	70 - 130	0	20
2,4-Dinitrotoluene	1.97	2.01		ug/L		102	70 - 130	3	20
2,6-Dinitrotoluene	1.97	2.10		ug/L		107	70 - 130	3	20
2-Methylnaphthalene	1.97	1.81		ug/L		92	70 - 130	1	20
4,4'-DDD	1.97	2.09		ug/L		106	70 - 130	1	20
4,4'-DDE	1.97	1.96		ug/L		100	70 - 130	1	20
4,4'-DDT	1.97	2.01		ug/L		102	70 - 130	1	20
Acenaphthene	1.97	1.94		ug/L		99	70 - 130	2	20
Acenaphthylene	1.97	1.92		ug/L		97	70 - 130	1	20
Acetochlor	1.97	1.93		ug/L		98	70 - 130	0	20
Alachlor	1.97	1.97		ug/L		100	70 - 130	0	20
alpha-BHC	1.97	1.93		ug/L		98	70 - 130	3	20
alpha-Chlordane	1.97	1.96		ug/L		99	70 - 130	1	20
Anthracene	1.97	1.82		ug/L		92	70 - 130	0	20
Atrazine	1.97	2.14		ug/L		109	70 - 130	3	20
Benz(a)anthracene	1.97	2.01		ug/L		102	70 - 130	0	20

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-135326-1
SDG: Weekly

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

Lab Sample ID: LCSD 380-135012/24-A
Matrix: Water
Analysis Batch: 135356

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 135012

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	RPD Limit
							Limits	RPD		
Benzo[a]pyrene	1.97	2.05		ug/L		104	70 - 130	2	20	
Benzo[b]fluoranthene	1.97	2.13		ug/L		108	70 - 130	2	20	
Benzo[g,h,i]perylene	1.97	2.04		ug/L		104	70 - 130	2	20	
Benzo[k]fluoranthene	1.97	2.02		ug/L		103	70 - 130	2	20	
beta-BHC	1.97	2.00		ug/L		102	70 - 130	2	20	
Bis(2-ethylhexyl) phthalate	1.97	2.05		ug/L		104	70 - 130	0	20	
Bromacil	1.97	2.06		ug/L		104	70 - 130	3	20	
Butachlor	1.97	2.20		ug/L		112	70 - 130	0	20	
Butylbenzylphthalate	1.97	2.17		ug/L		110	70 - 130	4	20	
Chlorobenzilate	1.97	1.94		ug/L		99	70 - 130	1	20	
Chloroneb	1.97	2.11		ug/L		107	70 - 130	2	20	
Chlorothalonil (Draconil, Bravo)	1.97	2.17		ug/L		110	70 - 130	3	20	
Chlorpyrifos	1.97	2.10		ug/L		107	70 - 130	5	20	
Chrysene	1.97	1.91		ug/L		97	70 - 130	1	20	
delta-BHC	1.97	1.91		ug/L		97	70 - 130	1	20	
Di(2-ethylhexyl)adipate	1.97	2.16		ug/L		110	70 - 130	0	20	
Dibenz(a,h)anthracene	1.97	1.97		ug/L		100	70 - 130	0	20	
Diclorvos (DDVP)	1.97	2.04		ug/L		103	70 - 130	1	20	
Dieldrin	1.97	1.92		ug/L		98	70 - 130	1	20	
Diethylphthalate	1.97	2.03		ug/L		103	70 - 130	3	20	
Dimethylphthalate	1.97	2.00		ug/L		101	70 - 130	3	20	
Di-n-butyl phthalate	3.94	4.02		ug/L		102	70 - 130	1	20	
Di-n-octyl phthalate	1.97	1.91		ug/L		97	70 - 130	0	20	
Endosulfan I (Alpha)	1.97	1.93		ug/L		98	70 - 130	2	20	
Endosulfan II (Beta)	1.97	1.99		ug/L		101	70 - 130	0	20	
Endosulfan sulfate	1.97	2.06		ug/L		104	70 - 130	1	20	
Endrin	1.97	2.04		ug/L		103	70 - 130	1	20	
Endrin aldehyde	1.97	1.94		ug/L		99	60 - 130	0	20	
EPTC	1.97	2.03		ug/L		103	70 - 130	2	20	
Fluoranthene	1.97	2.04		ug/L		104	70 - 130	1	20	
Fluorene	1.97	1.94		ug/L		99	70 - 130	2	20	
gamma-Chlordane	1.97	1.99		ug/L		101	70 - 130	2	20	
Heptachlor	1.97	2.03		ug/L		103	70 - 130	1	20	
Heptachlor epoxide (isomer B)	1.97	2.00		ug/L		101	70 - 130	2	20	
Hexachlorobenzene	1.97	1.81		ug/L		92	70 - 130	2	20	
Hexachlorocyclopentadiene	1.97	1.74		ug/L		89	70 - 130	2	20	
Indeno[1,2,3-cd]pyrene	1.97	2.03		ug/L		103	70 - 130	2	20	
Isophorone	1.97	2.01		ug/L		102	70 - 130	1	20	
Lindane	1.97	1.96		ug/L		100	70 - 130	3	20	
Malathion	1.97	2.04		ug/L		103	70 - 130	2	20	
Methoxychlor	1.97	2.01		ug/L		102	70 - 130	2	20	
Metolachlor	1.97	2.09		ug/L		106	70 - 130	1	20	
Molinate	1.97	2.05		ug/L		104	70 - 130	1	20	
Naphthalene	1.97	1.94		ug/L		98	70 - 130	0	20	
Parathion	1.97	2.17		ug/L		110	70 - 130	0	20	
Pendimethalin (Penoxaline)	1.97	2.05		ug/L		104	70 - 130	2	20	
Phenanthrene	1.97	1.95		ug/L		99	70 - 130	0	20	
Propachlor	1.97	2.08		ug/L		106	70 - 130	2	20	
Pyrene	1.97	2.07		ug/L		105	70 - 130	1	20	

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-135326-1
SDG: Weekly

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

Lab Sample ID: LCSD 380-135012/24-A
Matrix: Water
Analysis Batch: 135356

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 135012

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Simazine	1.97	2.16		ug/L		110	70 - 130	4	20
Terbacil	1.97	2.25		ug/L		114	70 - 130	2	20
Terbuthylazine	1.97	2.12		ug/L		108	70 - 130	3	20
Thiobencarb	1.97	2.20		ug/L		112	70 - 130	1	20
trans-Nonachlor	1.97	1.96		ug/L		100	70 - 130	1	20
Trifluralin	1.97	1.88		ug/L		95	70 - 130	3	20

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
2-Nitro-m-xylene	98		70 - 130
Perylene-d12	99		70 - 130
Triphenylphosphate	108		70 - 130

Lab Sample ID: MRL 380-135012/22-A
Matrix: Water
Analysis Batch: 135356

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 135012

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	0.0982	0.102		ug/L		103	50 - 150
2,4'-DDD	0.0982	0.0908	J	ug/L		92	50 - 150
2,4'-DDE	0.0982	0.0979	J	ug/L		100	50 - 150
2,4'-DDT	0.0982	0.103		ug/L		105	50 - 150
2,4-Dinitrotoluene	0.0982	0.110		ug/L		112	50 - 150
2,6-Dinitrotoluene	0.0982	0.0973	J	ug/L		99	50 - 150
2-Methylnaphthalene	0.0982	0.0975	J	ug/L		99	50 - 150
4,4'-DDD	0.0982	0.108		ug/L		110	50 - 150
4,4'-DDE	0.0982	0.100		ug/L		102	50 - 150
4,4'-DDT	0.0982	0.108		ug/L		110	50 - 150
Acenaphthene	0.0982	0.0832	J	ug/L		85	50 - 150
Acenaphthylene	0.0982	0.0917	J	ug/L		93	50 - 150
Acetochlor	0.0982	0.117		ug/L		119	50 - 150
Alachlor	0.0491	0.0495		ug/L		101	50 - 150
alpha-BHC	0.0982	0.103		ug/L		105	50 - 150
alpha-Chlordane	0.0245	<0.028		ug/L		107	50 - 150
Anthracene	0.0196	0.0212		ug/L		108	50 - 150
Atrazine	0.0491	0.0535		ug/L		109	50 - 150
Benz(a)anthracene	0.0491	0.0552		ug/L		112	50 - 150
Benzo[a]pyrene	0.0196	0.0209		ug/L		106	50 - 150
Benzo[b]fluoranthene	0.0196	0.0205		ug/L		104	50 - 150
Benzo[g,h,i]perylene	0.0491	0.0457	J	ug/L		93	50 - 150
Benzo[k]fluoranthene	0.0196	0.0176	J	ug/L		90	50 - 150
beta-BHC	0.0982	0.116		ug/L		118	50 - 150
Bis(2-ethylhexyl) phthalate	0.589	0.548	J	ug/L		93	50 - 150
Bromacil	0.0982	0.111		ug/L		113	50 - 150
Butachlor	0.0491	0.0505		ug/L		103	50 - 150
Butylbenzylphthalate	0.491	0.538		ug/L		110	50 - 150
Chlorobenzilate	0.0982	0.0896	J	ug/L		91	50 - 150
Chloroneb	0.0982	0.116		ug/L		118	50 - 150
Chlorothalonil (Draconil, Bravo)	0.0982	0.0877	J	ug/L		89	50 - 150

QC Sample Results

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

Job ID: 380-135326-1
SDG: Weekly

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

Lab Sample ID: MRL 380-135012/22-A
Matrix: Water
Analysis Batch: 135356

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 135012

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Chlorpyrifos	0.0491	0.0567		ug/L		116	50 - 150
Chrysene	0.0196	0.0207		ug/L		105	50 - 150
delta-BHC	0.0982	0.0974	J	ug/L		99	50 - 150
Di(2-ethylhexyl)adipate	0.589	0.647		ug/L		110	50 - 150
Dibenz(a,h)anthracene	0.0491	0.0415	J	ug/L		84	50 - 150
Diclorvos (DDVP)	0.0491	0.0586		ug/L		119	50 - 150
Dieldrin	0.00982	0.0141		ug/L		143	50 - 150
Diethylphthalate	0.491	0.510		ug/L		104	50 - 150
Dimethylphthalate	0.491	0.510		ug/L		104	50 - 150
Di-n-butyl phthalate	0.491	0.505	J	ug/L		103	49 - 243
Di-n-octyl phthalate	0.0982	0.0922	J	ug/L		94	50 - 150
Endosulfan I (Alpha)	0.0982	0.106		ug/L		108	50 - 150
Endosulfan II (Beta)	0.0982	0.123		ug/L		125	50 - 150
Endosulfan sulfate	0.0982	0.0897	J	ug/L		91	50 - 150
Endrin	0.00982	0.0130		ug/L		132	50 - 150
Endrin aldehyde	0.0982	0.107		ug/L		109	50 - 150
EPTC	0.0982	0.0935	J	ug/L		95	50 - 150
Fluoranthene	0.0982	0.0977	J	ug/L		100	50 - 150
Fluorene	0.0491	0.0508		ug/L		103	50 - 150
gamma-Chlordane	0.0245	0.0244	J	ug/L		99	50 - 150
Heptachlor	0.00982	0.0103		ug/L		105	50 - 150
Heptachlor epoxide (isomer B)	0.00982	0.0120		ug/L		122	50 - 150
Hexachlorobenzene	0.0491	0.0464	J	ug/L		94	50 - 150
Hexachlorocyclopentadiene	0.0491	0.0390	J	ug/L		79	50 - 150
Indeno[1,2,3-cd]pyrene	0.0491	0.0469	J	ug/L		96	50 - 150
Isophorone	0.0982	0.121		ug/L		123	50 - 150
Lindane	0.00982	0.0106		ug/L		108	50 - 150
Malathion	0.0982	0.102		ug/L		104	50 - 150
Methoxychlor	0.0491	0.0641		ug/L		131	50 - 150
Metolachlor	0.0491	0.0547		ug/L		111	50 - 150
Molinate	0.0982	0.102		ug/L		104	50 - 150
Naphthalene	0.0982	0.0892	J	ug/L		91	50 - 150
Parathion	0.0982	0.0966	J	ug/L		98	50 - 150
Pendimethalin (Penoxaline)	0.0982	0.0996		ug/L		101	50 - 150
Phenanthrene	0.0393	0.0339	J	ug/L		86	50 - 150
Propachlor	0.0491	0.0534		ug/L		109	50 - 150
Pyrene	0.0491	0.0498		ug/L		101	50 - 150
Simazine	0.0491	0.0460	J	ug/L		94	50 - 150
Terbacil	0.0982	0.101		ug/L		103	50 - 150
Terbutylazine	0.0982	0.0992		ug/L		101	50 - 150
Thiobencarb	0.0982	0.105		ug/L		107	50 - 150
trans-Nonachlor	0.0245	<0.026		ug/L		93	50 - 150
Trifluralin	0.0982	0.0996		ug/L		101	50 - 150

Surrogate	MRL %Recovery	MRL Qualifier	MRL Limits
2-Nitro-m-xylene	98		70 - 130
Perylene-d12	99		70 - 130
Triphenylphosphate	102		70 - 130

QC Sample Results

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

Job ID: 380-135326-1
SDG: Weekly

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

Lab Sample ID: 380-135329-B-1-A MS
Matrix: Water
Analysis Batch: 135356

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 135012

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	<0.097		1.94	1.78		ug/L		91	70 - 130
2,4'-DDD	<0.097		1.94	1.99		ug/L		102	70 - 130
2,4'-DDE	<0.097		1.94	1.93		ug/L		99	70 - 130
2,4'-DDT	<0.097		1.94	2.03		ug/L		105	70 - 130
2,4-Dinitrotoluene	<0.097		1.94	1.92		ug/L		99	70 - 130
2,6-Dinitrotoluene	<0.097		1.94	2.00		ug/L		103	70 - 130
2-Methylnaphthalene	<0.097		1.94	1.82		ug/L		94	70 - 130
4,4'-DDD	<0.097		1.94	2.01		ug/L		104	70 - 130
4,4'-DDE	<0.097		1.94	1.94		ug/L		100	70 - 130
4,4'-DDT	<0.097		1.94	1.93		ug/L		99	70 - 130
Acenaphthene	<0.097		1.94	1.93		ug/L		99	70 - 130
Acenaphthylene	<0.097		1.94	1.90		ug/L		98	70 - 130
Acetochlor	<0.097		1.94	1.90		ug/L		98	70 - 130
Alachlor	<0.049		1.94	1.92		ug/L		99	70 - 130
alpha-BHC	<0.097		1.94	1.86		ug/L		95	70 - 130
alpha-Chlordane	<0.049		1.94	1.89		ug/L		97	70 - 130
Anthracene	<0.019		1.94	1.49		ug/L		77	70 - 130
Atrazine	<0.049		1.94	2.03		ug/L		105	70 - 130
Benz(a)anthracene	<0.049		1.94	1.92		ug/L		99	70 - 130
Benzo[a]pyrene	<0.019		1.94	1.95		ug/L		100	70 - 130
Benzo[b]fluoranthene	<0.019		1.94	2.15		ug/L		111	70 - 130
Benzo[g,h,i]perylene	<0.049		1.94	2.03		ug/L		105	70 - 130
Benzo[k]fluoranthene	<0.019		1.94	2.04		ug/L		105	70 - 130
beta-BHC	<0.097		1.94	1.93		ug/L		99	70 - 130
Bis(2-ethylhexyl) phthalate	<0.58		1.94	1.97		ug/L		101	70 - 130
Bromacil	<0.097		1.94	1.95		ug/L		100	70 - 130
Butachlor	<0.049		1.94	2.13		ug/L		110	70 - 130
Butylbenzylphthalate	<0.49		1.94	2.01		ug/L		103	70 - 130
Chlorobenzilate	<0.097		1.94	1.88		ug/L		97	70 - 130
Chloroneb	<0.097		1.94	1.96		ug/L		101	70 - 130
Chlorothalonil (Draconil, Bravo)	<0.097		1.94	2.08		ug/L		107	70 - 130
Chlorpyrifos	<0.049		1.94	1.98		ug/L		102	70 - 130
Chrysene	<0.019		1.94	1.94		ug/L		100	70 - 130
delta-BHC	<0.097		1.94	1.85		ug/L		95	70 - 130
Di(2-ethylhexyl)adipate	<0.58		1.94	2.01		ug/L		103	70 - 130
Dibenz(a,h)anthracene	<0.049		1.94	1.99		ug/L		103	70 - 130
Diclorvos (DDVP)	<0.049		1.94	1.98		ug/L		102	70 - 130
Dieldrin	<0.0097		1.94	1.88		ug/L		96	70 - 130
Diethylphthalate	<0.49		1.94	1.97		ug/L		101	70 - 130
Dimethylphthalate	<0.49		1.94	1.93		ug/L		99	70 - 130
Di-n-butyl phthalate	<0.97		3.89	3.95		ug/L		102	70 - 130
Di-n-octyl phthalate	<0.097		1.94	1.82		ug/L		94	70 - 130
Endosulfan I (Alpha)	<0.097		1.94	1.88		ug/L		97	70 - 130
Endosulfan II (Beta)	<0.097		1.94	1.99		ug/L		102	70 - 130
Endosulfan sulfate	<0.097		1.94	2.02		ug/L		104	70 - 130
Endrin	<0.0097		1.94	1.93		ug/L		99	70 - 130
Endrin aldehyde	<0.097		1.94	1.81		ug/L		93	60 - 130
EPTC	<0.097		1.94	1.97		ug/L		101	70 - 130

QC Sample Results

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

Job ID: 380-135326-1
SDG: Weekly

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

Lab Sample ID: 380-135329-B-1-A MS
Matrix: Water
Analysis Batch: 135356

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 135012

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec
	Result	Qualifier	Added	Result	Qualifier				
Fluoranthene	<0.097		1.94	2.02		ug/L		104	70 - 130
Fluorene	<0.049		1.94	1.93		ug/L		99	70 - 130
gamma-Chlordane	<0.049		1.94	1.91		ug/L		98	70 - 130
Heptachlor	<0.0097		1.94	1.98		ug/L		102	70 - 130
Heptachlor epoxide (isomer B)	<0.0097		1.94	1.95		ug/L		100	70 - 130
Hexachlorobenzene	<0.049		1.94	1.82		ug/L		94	70 - 130
Hexachlorocyclopentadiene	<0.049		1.94	1.78		ug/L		92	70 - 130
Indeno[1,2,3-cd]pyrene	<0.049		1.94	2.02		ug/L		104	70 - 130
Isophorone	<0.097		1.94	1.96		ug/L		101	70 - 130
Lindane	<0.0097		1.94	1.88		ug/L		97	70 - 130
Malathion	<0.097		1.94	1.96		ug/L		101	70 - 130
Methoxychlor	<0.049		1.94	2.01		ug/L		103	70 - 130
Metolachlor	<0.049		1.94	2.03		ug/L		105	70 - 130
Molinate	<0.097		1.94	2.02		ug/L		104	70 - 130
Naphthalene	<0.097		1.94	1.94		ug/L		100	70 - 130
Parathion	<0.097		1.94	2.10		ug/L		108	70 - 130
Pendimethalin (Penoxaline)	<0.097		1.94	2.02		ug/L		104	70 - 130
Phenanthrene	<0.039		1.94	1.96		ug/L		101	70 - 130
Propachlor	<0.049		1.94	2.03		ug/L		104	70 - 130
Pyrene	<0.049		1.94	2.04		ug/L		105	70 - 130
Simazine	<0.049		1.94	2.02		ug/L		104	70 - 130
Terbacil	<0.097		1.94	2.18		ug/L		112	70 - 130
Terbutylazine	<0.097		1.94	2.02		ug/L		104	70 - 130
Thiobencarb	<0.097		1.94	2.13		ug/L		110	70 - 130
trans-Nonachlor	<0.049		1.94	1.89		ug/L		97	70 - 130
Trifluralin	<0.097		1.94	1.82		ug/L		94	70 - 130

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
2-Nitro-m-xylene	98		70 - 130
Perylene-d12	100		70 - 130
Triphenylphosphate	103		70 - 130

Lab Sample ID: 380-135326-1 DU
Matrix: Water
Analysis Batch: 135356

Client Sample ID: Ka'amilo Wells
Prep Type: Total/NA
Prep Batch: 135012

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
1-Methylnaphthalene	<0.097		<0.098		ug/L		NC	20
2,4'-DDD	<0.097		<0.098		ug/L		NC	20
2,4'-DDE	<0.097		<0.098		ug/L		NC	20
2,4'-DDT	<0.097		<0.098		ug/L		NC	20
2,4-Dinitrotoluene	<0.097		<0.098		ug/L		NC	20
2,6-Dinitrotoluene	<0.097		<0.098		ug/L		NC	20
2-Methylnaphthalene	<0.097		<0.098		ug/L		NC	20
4,4'-DDD	<0.097		<0.098		ug/L		NC	20
4,4'-DDE	<0.097		<0.098		ug/L		NC	20
4,4'-DDT	<0.097		<0.098		ug/L		NC	20
Acenaphthene	<0.097		<0.098		ug/L		NC	20

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-135326-1
SDG: Weekly

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

Lab Sample ID: 380-135326-1 DU
Matrix: Water
Analysis Batch: 135356

Client Sample ID: Ka'amilo Wells
Prep Type: Total/NA
Prep Batch: 135012

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Acenaphthylene	<0.097		<0.098		ug/L		NC	20
Acetochlor	<0.097		<0.098		ug/L		NC	20
Alachlor	<0.048		<0.049		ug/L		NC	20
alpha-BHC	<0.097		<0.098		ug/L		NC	20
alpha-Chlordane	<0.048		<0.049		ug/L		NC	20
Anthracene	<0.019		<0.020		ug/L		NC	20
Atrazine	<0.048		<0.049		ug/L		NC	20
Benz(a)anthracene	<0.048		<0.049		ug/L		NC	20
Benzo[a]pyrene	<0.019		<0.020		ug/L		NC	20
Benzo[b]fluoranthene	<0.019		<0.020		ug/L		NC	20
Benzo[g,h,i]perylene	<0.048		<0.049		ug/L		NC	20
Benzo[k]fluoranthene	<0.019		<0.020		ug/L		NC	20
beta-BHC	<0.097		<0.098		ug/L		NC	20
Bis(2-ethylhexyl) phthalate	<0.58		<0.59		ug/L		NC	20
Bromacil	<0.097		<0.098		ug/L		NC	20
Butachlor	<0.048		<0.049		ug/L		NC	20
Butylbenzylphthalate	<0.48		<0.49		ug/L		NC	20
Chlorobenzilate	<0.097		<0.098		ug/L		NC	20
Chloroneb	<0.097		<0.098		ug/L		NC	20
Chlorothalonil (Draconil, Bravo)	<0.097		<0.098		ug/L		NC	20
Chlorpyrifos	<0.048		<0.049		ug/L		NC	20
Chrysene	<0.019		<0.020		ug/L		NC	20
delta-BHC	<0.097		<0.098		ug/L		NC	20
Di(2-ethylhexyl)adipate	<0.58		<0.59		ug/L		NC	20
Dibenz(a,h)anthracene	<0.048		<0.049		ug/L		NC	20
Diclorvos (DDVP)	<0.048		<0.049		ug/L		NC	20
Dieldrin	0.033		0.0401		ug/L		20	20
Diethylphthalate	<0.48		<0.49		ug/L		NC	20
Dimethylphthalate	<0.48		<0.49		ug/L		NC	20
Di-n-butyl phthalate	<0.97		<0.98		ug/L		NC	20
Di-n-octyl phthalate	<0.097		<0.098		ug/L		NC	20
Endosulfan I (Alpha)	<0.097		<0.098		ug/L		NC	20
Endosulfan II (Beta)	<0.097		<0.098		ug/L		NC	20
Endosulfan sulfate	<0.097		<0.098		ug/L		NC	20
Endrin	<0.0097		<0.0098		ug/L		NC	20
Endrin aldehyde	<0.097		<0.098		ug/L		NC	20
EPTC	<0.097		<0.098		ug/L		NC	20
Fluoranthene	<0.097		<0.098		ug/L		NC	20
Fluorene	<0.048		<0.049		ug/L		NC	20
gamma-Chlordane	<0.048		<0.049		ug/L		NC	20
Heptachlor	<0.0097		<0.0098		ug/L		NC	20
Heptachlor epoxide (isomer B)	<0.0097		<0.0098		ug/L		NC	20
Hexachlorobenzene	<0.048		<0.049		ug/L		NC	20
Hexachlorocyclopentadiene	<0.048		<0.049		ug/L		NC	20
Indeno[1,2,3-cd]pyrene	<0.048		<0.049		ug/L		NC	20
Isophorone	<0.097		<0.098		ug/L		NC	20
Lindane	<0.0097		<0.0098		ug/L		NC	20
Malathion	<0.097		<0.098		ug/L		NC	20
Methoxychlor	<0.048		<0.049		ug/L		NC	20

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-135326-1
SDG: Weekly

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

Lab Sample ID: 380-135326-1 DU
Matrix: Water
Analysis Batch: 135356

Client Sample ID: Ka'amilo Wells
Prep Type: Total/NA
Prep Batch: 135012

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Metolachlor	<0.048		<0.049		ug/L		NC	20
Molinate	<0.097		<0.098		ug/L		NC	20
Naphthalene	<0.097		<0.098		ug/L		NC	20
Parathion	<0.097		<0.098		ug/L		NC	20
Pendimethalin (Penoxaline)	<0.097		<0.098		ug/L		NC	20
Phenanthrene	<0.039		<0.039		ug/L		NC	20
Propachlor	<0.048		<0.049		ug/L		NC	20
Pyrene	<0.048		<0.049		ug/L		NC	20
Simazine	<0.048		<0.049		ug/L		NC	20
Terbacil	<0.097		<0.098		ug/L		NC	20
Terbutylazine	<0.097		<0.098		ug/L		NC	20
Thiobencarb	<0.097		<0.098		ug/L		NC	20
Total Permethrin (mixed isomers)	<0.19		<0.20		ug/L		NC	20
trans-Nonachlor	<0.048		<0.049		ug/L		NC	20
Trifluralin	<0.097		<0.098		ug/L		NC	20

Surrogate	DU	DU	Limits
	%Recovery	Qualifier	
2-Nitro-m-xylene	97		70 - 130
Perylene-d12	98		70 - 130
Triphenylphosphate	103		70 - 130

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

Lab Sample ID: MB 570-533965/1-A
Matrix: Water
Analysis Batch: 536600

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 533965

Tentatively Identified Compound	MB	MB	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
	Est. Result	Qualifier							
Tentatively Identified Compound	None		ug/L			N/A	02/14/25 11:59	02/21/25 17:18	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2,4,6-Tribromophenol (Surr)	71		33 - 139	02/14/25 11:59	02/21/25 17:18	1
2-Fluorobiphenyl (Surr)	76		33 - 126	02/14/25 11:59	02/21/25 17:18	1
2-Fluorophenol (Surr)	53		12 - 120	02/14/25 11:59	02/21/25 17:18	1
Nitrobenzene-d5 (Surr)	78		36 - 120	02/14/25 11:59	02/21/25 17:18	1
Phenol-d6 (Surr)	31		10 - 120	02/14/25 11:59	02/21/25 17:18	1
p-Terphenyl-d14 (Surr)	64		47 - 131	02/14/25 11:59	02/21/25 17:18	1

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

Lab Sample ID: MB 570-533965/1-A
Matrix: Water
Analysis Batch: 535078

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 533965

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
1-Methylnaphthalene	<0.20		0.20	ug/L		02/14/25 11:59	02/18/25 10:30	1
2-Methylnaphthalene	<0.20		0.20	ug/L		02/14/25 11:59	02/18/25 10:30	1
Acenaphthene	<0.20		0.20	ug/L		02/14/25 11:59	02/18/25 10:30	1

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-135326-1
SDG: Weekly

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

Lab Sample ID: MB 570-533965/1-A
Matrix: Water
Analysis Batch: 535078

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 533965

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	<0.20		0.20	ug/L		02/14/25 11:59	02/18/25 10:30	1
Anthracene	<0.20		0.20	ug/L		02/14/25 11:59	02/18/25 10:30	1
Benzo[a]anthracene	<0.20		0.20	ug/L		02/14/25 11:59	02/18/25 10:30	1
Benzo[a]pyrene	<0.20		0.20	ug/L		02/14/25 11:59	02/18/25 10:30	1
Benzo[b]fluoranthene	<0.20		0.20	ug/L		02/14/25 11:59	02/18/25 10:30	1
Benzo[g,h,i]perylene	<0.20		0.20	ug/L		02/14/25 11:59	02/18/25 10:30	1
Benzo[k]fluoranthene	<0.20		0.20	ug/L		02/14/25 11:59	02/18/25 10:30	1
Chrysene	<0.20		0.20	ug/L		02/14/25 11:59	02/18/25 10:30	1
Dibenz(a,h)anthracene	<0.20		0.20	ug/L		02/14/25 11:59	02/18/25 10:30	1
Fluoranthene	<0.20		0.20	ug/L		02/14/25 11:59	02/18/25 10:30	1
Fluorene	<0.20		0.20	ug/L		02/14/25 11:59	02/18/25 10:30	1
Indeno[1,2,3-cd]pyrene	<0.20		0.20	ug/L		02/14/25 11:59	02/18/25 10:30	1
Naphthalene	<0.20		0.20	ug/L		02/14/25 11:59	02/18/25 10:30	1
Phenanthrene	<0.20		0.20	ug/L		02/14/25 11:59	02/18/25 10:30	1
Pyrene	<0.20		0.20	ug/L		02/14/25 11:59	02/18/25 10:30	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	74		28 - 127	02/14/25 11:59	02/18/25 10:30	1
2-Fluorobiphenyl (Surr)	68		31 - 120	02/14/25 11:59	02/18/25 10:30	1
2-Fluorophenol (Surr)	44		17 - 120	02/14/25 11:59	02/18/25 10:30	1
Nitrobenzene-d5 (Surr)	78		27 - 120	02/14/25 11:59	02/18/25 10:30	1
Phenol-d6 (Surr)	27		10 - 120	02/14/25 11:59	02/18/25 10:30	1
p-Terphenyl-d14 (Surr)	82		45 - 120	02/14/25 11:59	02/18/25 10:30	1

Lab Sample ID: LCS 570-533965/2-A
Matrix: Water
Analysis Batch: 535078

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 533965

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	20.0	14.3		ug/L		71	47 - 120
2-Methylnaphthalene	20.0	16.0		ug/L		80	43 - 120
Acenaphthene	20.0	17.2		ug/L		86	60 - 132
Acenaphthylene	20.0	16.8		ug/L		84	54 - 126
Anthracene	20.0	17.4		ug/L		87	43 - 120
Benzo[a]anthracene	20.0	17.6		ug/L		88	42 - 133
Benzo[a]pyrene	20.0	18.7		ug/L		93	32 - 148
Benzo[b]fluoranthene	20.0	18.3		ug/L		91	42 - 140
Benzo[g,h,i]perylene	20.0	17.9		ug/L		90	1 - 195
Benzo[k]fluoranthene	20.0	18.3		ug/L		91	25 - 146
Chrysene	20.0	17.2		ug/L		86	44 - 140
Dibenz(a,h)anthracene	20.0	18.0		ug/L		90	1 - 200
Fluoranthene	20.0	17.7		ug/L		89	43 - 121
Fluorene	20.0	17.3		ug/L		86	70 - 120
Indeno[1,2,3-cd]pyrene	20.0	18.4		ug/L		92	1 - 151
Naphthalene	20.0	14.5		ug/L		73	36 - 120
Phenanthrene	20.0	17.1		ug/L		86	65 - 120
Pyrene	20.0	18.4		ug/L		92	70 - 120

QC Sample Results

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

Job ID: 380-135326-1
SDG: Weekly

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

Lab Sample ID: LCS 570-533965/2-A
Matrix: Water
Analysis Batch: 535078

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 533965

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	84		28 - 127
2-Fluorobiphenyl (Surr)	77		31 - 120
2-Fluorophenol (Surr)	55		17 - 120
Nitrobenzene-d5 (Surr)	77		27 - 120
Phenol-d6 (Surr)	34		10 - 120
p-Terphenyl-d14 (Surr)	80		45 - 120

Lab Sample ID: LCSD 570-533965/3-A
Matrix: Water
Analysis Batch: 535078

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 533965

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
1-Methylnaphthalene	20.0	14.3		ug/L		71	47 - 120	0	20	
2-Methylnaphthalene	20.0	16.4		ug/L		82	43 - 120	2	20	
Acenaphthene	20.0	17.8		ug/L		89	60 - 132	4	29	
Acenaphthylene	20.0	17.2		ug/L		86	54 - 126	3	45	
Anthracene	20.0	18.7		ug/L		94	43 - 120	7	40	
Benzo[a]anthracene	20.0	18.8		ug/L		94	42 - 133	7	32	
Benzo[a]pyrene	20.0	19.7		ug/L		99	32 - 148	5	43	
Benzo[b]fluoranthene	20.0	19.2		ug/L		96	42 - 140	5	43	
Benzo[g,h,i]perylene	20.0	19.0		ug/L		95	1 - 195	6	61	
Benzo[k]fluoranthene	20.0	20.2		ug/L		101	25 - 146	10	38	
Chrysene	20.0	18.0		ug/L		90	44 - 140	4	53	
Dibenz(a,h)anthracene	20.0	19.5		ug/L		97	1 - 200	8	75	
Fluoranthene	20.0	19.3		ug/L		96	43 - 121	8	40	
Fluorene	20.0	18.0		ug/L		90	70 - 120	4	23	
Indeno[1,2,3-cd]pyrene	20.0	19.7		ug/L		99	1 - 151	7	60	
Naphthalene	20.0	15.5		ug/L		78	36 - 120	7	39	
Phenanthrene	20.0	18.0		ug/L		90	65 - 120	5	24	
Pyrene	20.0	18.6		ug/L		93	70 - 120	1	30	

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	84		28 - 127
2-Fluorobiphenyl (Surr)	78		31 - 120
2-Fluorophenol (Surr)	56		17 - 120
Nitrobenzene-d5 (Surr)	76		27 - 120
Phenol-d6 (Surr)	34		10 - 120
p-Terphenyl-d14 (Surr)	81		45 - 120

Lab Sample ID: 380-135325-A-1-B MS
Matrix: Water
Analysis Batch: 535078

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 533965

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	%Rec	
				Result	Qualifier				Limits	RPD
1-Methylnaphthalene	<0.19		19.3	13.4		ug/L		69	36 - 120	
2-Methylnaphthalene	<0.19		19.3	15.7		ug/L		81	32 - 124	
Acenaphthene	<0.19		19.3	17.0		ug/L		88	47 - 145	
Acenaphthylene	<0.19		19.3	16.6		ug/L		86	33 - 145	

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-135326-1
SDG: Weekly

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

Lab Sample ID: 380-135325-A-1-B MS

Matrix: Water

Analysis Batch: 535078

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 533965

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	
Anthracene	<0.19		19.3	17.4		ug/L		90	27 - 133	
Benzo[a]anthracene	<0.19		19.3	17.0		ug/L		88	33 - 143	
Benzo[a]pyrene	<0.19		19.3	18.9		ug/L		98	17 - 163	
Benzo[b]fluoranthene	<0.19		19.3	18.1		ug/L		94	24 - 159	
Benzo[g,h,i]perylene	<0.19		19.3	17.3		ug/L		90	1 - 219	
Benzo[k]fluoranthene	<0.19		19.3	18.7		ug/L		97	11 - 162	
Chrysene	<0.19		19.3	16.6		ug/L		86	17 - 168	
Dibenz(a,h)anthracene	<0.19		19.3	17.7		ug/L		92	1 - 227	
Fluoranthene	<0.19		19.3	17.4		ug/L		90	26 - 137	
Fluorene	<0.19		19.3	17.1		ug/L		89	59 - 121	
Indeno[1,2,3-cd]pyrene	<0.19		19.3	17.8		ug/L		92	1 - 171	
Naphthalene	<0.19		19.3	14.5		ug/L		75	21 - 133	
Phenanthrene	<0.19		19.3	17.2		ug/L		89	54 - 120	
Pyrene	<0.19		19.3	16.9		ug/L		88	52 - 120	

Surrogate	MS %Recovery	MS Qualifier	MS Limits
2,4,6-Tribromophenol (Surr)	82		28 - 127
2-Fluorobiphenyl (Surr)	76		31 - 120
2-Fluorophenol (Surr)	53		17 - 120
Nitrobenzene-d5 (Surr)	76		27 - 120
Phenol-d6 (Surr)	33		10 - 120
p-Terphenyl-d14 (Surr)	75		45 - 120

Lab Sample ID: 380-135325-A-1-C MSD

Matrix: Water

Analysis Batch: 535078

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 533965

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits		RPD	RPD Limit
1-Methylnaphthalene	<0.19		19.2	14.2		ug/L		74	36 - 120	6	30	
2-Methylnaphthalene	<0.19		19.2	16.4		ug/L		86	32 - 124	5	30	
Acenaphthene	<0.19		19.2	17.2		ug/L		90	47 - 145	1	48	
Acenaphthylene	<0.19		19.2	16.6		ug/L		87	33 - 145	0	74	
Anthracene	<0.19		19.2	17.8		ug/L		93	27 - 133	3	66	
Benzo[a]anthracene	<0.19		19.2	17.5		ug/L		91	33 - 143	3	53	
Benzo[a]pyrene	<0.19		19.2	19.1		ug/L		99	17 - 163	1	72	
Benzo[b]fluoranthene	<0.19		19.2	18.0		ug/L		94	24 - 159	1	71	
Benzo[g,h,i]perylene	<0.19		19.2	18.8		ug/L		98	1 - 219	8	97	
Benzo[k]fluoranthene	<0.19		19.2	19.1		ug/L		100	11 - 162	2	63	
Chrysene	<0.19		19.2	17.2		ug/L		89	17 - 168	3	87	
Dibenz(a,h)anthracene	<0.19		19.2	18.6		ug/L		97	1 - 227	5	126	
Fluoranthene	<0.19		19.2	17.5		ug/L		91	26 - 137	0	66	
Fluorene	<0.19		19.2	17.3		ug/L		90	59 - 121	1	38	
Indeno[1,2,3-cd]pyrene	<0.19		19.2	19.0		ug/L		99	1 - 171	7	99	
Naphthalene	<0.19		19.2	15.1		ug/L		78	21 - 133	4	65	
Phenanthrene	<0.19		19.2	17.4		ug/L		91	54 - 120	1	39	
Pyrene	<0.19		19.2	18.4		ug/L		96	52 - 120	9	49	

QC Sample Results

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

Job ID: 380-135326-1
SDG: Weekly

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

Lab Sample ID: 380-135325-A-1-C MSD
Matrix: Water
Analysis Batch: 535078

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 533965

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	84		28 - 127
2-Fluorobiphenyl (Surr)	80		31 - 120
2-Fluorophenol (Surr)	55		17 - 120
Nitrobenzene-d5 (Surr)	77		27 - 120
Phenol-d6 (Surr)	34		10 - 120
p-Terphenyl-d14 (Surr)	82		45 - 120

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

Lab Sample ID: MB 570-536151/10
Matrix: Water
Analysis Batch: 536151

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			02/20/25 14:45	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	77		38 - 134		02/20/25 14:45	1

Lab Sample ID: LCS 570-536151/1008
Matrix: Water
Analysis Batch: 536151

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	432		ug/L		108	78 - 120

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	92		38 - 134

Lab Sample ID: LCSD 570-536151/9
Matrix: Water
Analysis Batch: 536151

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	413		ug/L		103	78 - 120	4	10

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	90		38 - 134

Lab Sample ID: MRL 570-536151/1003
Matrix: Water
Analysis Batch: 536151

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	10.8		ug/L		108	50 - 150

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-135326-1
SDG: Weekly

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

Lab Sample ID: MRL 570-536151/1003
Matrix: Water
Analysis Batch: 536151

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

Surrogate	MRL %Recovery	MRL Qualifier	Limits
4-Bromofluorobenzene (Surr)	82		38 - 134

Lab Sample ID: 380-135325-C-1 MS
Matrix: Water
Analysis Batch: 536151

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	403		ug/L		101	68 - 122

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	92		38 - 134

Lab Sample ID: 380-135325-C-1 MSD
Matrix: Water
Analysis Batch: 536151

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	424		ug/L		106	68 - 122	5	18

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		38 - 134

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

Lab Sample ID: MB 570-534854/1-A
Matrix: Water
Analysis Batch: 535379

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 534854

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	<25		25	ug/L		02/17/25 15:29	02/18/25 19:15	1
Motor Oil Range Organics [C24-C36]	<25		25	ug/L		02/17/25 15:29	02/18/25 19:15	1
C8-C18	<25		25	ug/L		02/17/25 15:29	02/18/25 19:15	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	103		60 - 130	02/17/25 15:29	02/18/25 19:15	1

Lab Sample ID: LCS 570-534854/2-A
Matrix: Water
Analysis Batch: 535379

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 534854

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
C10-C28	1600	1540		ug/L		96	56 - 127

Surrogate	LCS %Recovery	LCS Qualifier	Limits
n-Octacosane (Surr)	95		60 - 130

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-135326-1
SDG: Weekly

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

Lab Sample ID: LCSD 570-534854/3-A
Matrix: Water
Analysis Batch: 535379

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 534854

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C10-C28	1600	1600		ug/L		100	56 - 127	4	23
Surrogate	%Recovery	MSD Qualifier	Limits						
<i>n-Octacosane (Surr)</i>	100		60 - 130						

Lab Sample ID: MRL 570-534854/4-A
Matrix: Water
Analysis Batch: 537693

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 534854

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C10-C28	0.0200	0.0241	J	mg/L		121	50 - 150		
Surrogate	%Recovery	MSD Qualifier	Limits						
<i>n-Octacosane (Surr)</i>	97		60 - 130						

Lab Sample ID: 380-135325-B-1-A MS
Matrix: Water
Analysis Batch: 535379

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 534854

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C10-C28	<26		1660	1620		ug/L		98	70 - 130		
Surrogate	%Recovery	MSD Qualifier	Limits								
<i>n-Octacosane (Surr)</i>	99		60 - 130								

Lab Sample ID: 380-135325-B-1-B MSD
Matrix: Water
Analysis Batch: 535379

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 534854

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C10-C28	<26		1630	1550		ug/L		95	70 - 130	4	20
Surrogate	%Recovery	MSD Qualifier	Limits								
<i>n-Octacosane (Surr)</i>	96		60 - 130								

QC Association Summary

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

Job ID: 380-135326-1
SDG: Weekly

GC/MS Semi VOA

Prep Batch: 135012

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-135326-1	Ka'amilo Wells	Total/NA	Water	525.2	
MB 380-135012/21-A	Method Blank	Total/NA	Water	525.2	
LCS 380-135012/23-A	Lab Control Sample	Total/NA	Water	525.2	
LCSD 380-135012/24-A	Lab Control Sample Dup	Total/NA	Water	525.2	
MRL 380-135012/22-A	Lab Control Sample	Total/NA	Water	525.2	
380-135329-B-1-A MS	Matrix Spike	Total/NA	Water	525.2	
380-135326-1 DU	Ka'amilo Wells	Total/NA	Water	525.2	

Analysis Batch: 135356

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-135326-1	Ka'amilo Wells	Total/NA	Water	525.2	135012
MB 380-135012/21-A	Method Blank	Total/NA	Water	525.2	135012
LCS 380-135012/23-A	Lab Control Sample	Total/NA	Water	525.2	135012
LCSD 380-135012/24-A	Lab Control Sample Dup	Total/NA	Water	525.2	135012
MRL 380-135012/22-A	Lab Control Sample	Total/NA	Water	525.2	135012
380-135329-B-1-A MS	Matrix Spike	Total/NA	Water	525.2	135012
380-135326-1 DU	Ka'amilo Wells	Total/NA	Water	525.2	135012

Prep Batch: 533965

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-135326-1	Ka'amilo Wells	Total/NA	Water	625.1	
MB 570-533965/1-A	Method Blank	Total/NA	Water	625.1	
LCS 570-533965/2-A	Lab Control Sample	Total/NA	Water	625.1	
LCSD 570-533965/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	
380-135325-A-1-B MS	Matrix Spike	Total/NA	Water	625.1	
380-135325-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	625.1	

Analysis Batch: 535078

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-533965/1-A	Method Blank	Total/NA	Water	625.1 SIM	533965
LCS 570-533965/2-A	Lab Control Sample	Total/NA	Water	625.1 SIM	533965
LCSD 570-533965/3-A	Lab Control Sample Dup	Total/NA	Water	625.1 SIM	533965
380-135325-A-1-B MS	Matrix Spike	Total/NA	Water	625.1 SIM	533965
380-135325-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	625.1 SIM	533965

Analysis Batch: 536600

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-135326-1	Ka'amilo Wells	Total/NA	Water	625.1	533965
MB 570-533965/1-A	Method Blank	Total/NA	Water	625.1	533965

Analysis Batch: 536661

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-135326-1	Ka'amilo Wells	Total/NA	Water	625.1 SIM	533965

GC VOA

Analysis Batch: 536151

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-135326-1	Ka'amilo Wells	Total/NA	Water	8015B GRO LL	
380-135326-2	TB: Ka'amilo Wells	Total/NA	Water	8015B GRO LL	
MB 570-536151/10	Method Blank	Total/NA	Water	8015B GRO LL	

QC Association Summary

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

Job ID: 380-135326-1
SDG: Weekly

GC VOA (Continued)

Analysis Batch: 536151 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 570-536151/1008	Lab Control Sample	Total/NA	Water	8015B GRO LL	
LCSD 570-536151/9	Lab Control Sample Dup	Total/NA	Water	8015B GRO LL	
MRL 570-536151/1003	Lab Control Sample	Total/NA	Water	8015B GRO LL	
380-135325-C-1 MS	Matrix Spike	Total/NA	Water	8015B GRO LL	
380-135325-C-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8015B GRO LL	

GC Semi VOA

Prep Batch: 534854

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-135326-1	Ka'amilo Wells	Total/NA	Water	3510C	
MB 570-534854/1-A	Method Blank	Total/NA	Water	3510C	
LCS 570-534854/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 570-534854/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MRL 570-534854/4-A	Lab Control Sample	Total/NA	Water	3510C	
380-135325-B-1-A MS	Matrix Spike	Total/NA	Water	3510C	
380-135325-B-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	3510C	

Analysis Batch: 535379

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-534854/1-A	Method Blank	Total/NA	Water	8015B	534854
LCS 570-534854/2-A	Lab Control Sample	Total/NA	Water	8015B	534854
LCSD 570-534854/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	534854
380-135325-B-1-A MS	Matrix Spike	Total/NA	Water	8015B	534854
380-135325-B-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	8015B	534854

Analysis Batch: 537693

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-135326-1	Ka'amilo Wells	Total/NA	Water	8015B	534854
MRL 570-534854/4-A	Lab Control Sample	Total/NA	Water	8015B	534854

Lab Chronicle

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

Job ID: 380-135326-1
 SDG: Weekly

Client Sample ID: Ka'amilo Wells

Lab Sample ID: 380-135326-1

Date Collected: 02/10/25 11:47

Matrix: Water

Date Received: 02/12/25 09:44

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			135012	IQ42	EA POM	02/13/25 13:47
Total/NA	Analysis	525.2		1	135356	UPAC	EA POM	02/14/25 16:10
Total/NA	Prep	625.1			533965	H1SH	EET CAL 4	02/14/25 11:59
Total/NA	Analysis	625.1		1	536600	CG	EET CAL 4	02/21/25 18:25
Total/NA	Prep	625.1			533965	H1SH	EET CAL 4	02/14/25 11:59
Total/NA	Analysis	625.1 SIM		1	536661	PQS1	EET CAL 4	02/21/25 13:53
Total/NA	Analysis	8015B GRO LL		1	536151	A9VE	EET CAL 4	02/20/25 21:18
Total/NA	Prep	3510C			534854	H6FE	EET CAL 4	02/17/25 15:29
Total/NA	Analysis	8015B		1	537693	H6FE	EET CAL 4	02/25/25 01:22

Client Sample ID: TB: Ka'amilo Wells

Lab Sample ID: 380-135326-2

Date Collected: 02/10/25 11:47

Matrix: Water

Date Received: 02/12/25 09:44

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015B GRO LL		1	536151	A9VE	EET CAL 4	02/20/25 18:46

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

Accreditation/Certification Summary

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

Job ID: 380-135326-1
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	01-31-25 *

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
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
California	State	3082	07-31-25

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Eaton Analytical Pomona

Accreditation/Certification Summary

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

Job ID: 380-135326-1
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
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	CA001112025-8	02-28-26
Washington	State	C916	10-11-25

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Method Summary

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

Job ID: 380-135326-1
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: 380-135326-1
SDG: Weekly

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
380-135326-1	Ka'amilo Wells	Water	02/10/25 11:47	02/12/25 09:44
380-135326-2	TB: Ka'amilo Wells	Water	02/10/25 11:47	02/12/25 09:44

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Client Information		Lab PM: Arada, Rachelle		Carrier Tracking No(s)		COC No: 380-28005-2757 1	
Client Contact: Kirik Iwamoto		E-Mail: Rachelle.Arada@eurofins.com		State of Origin:		Page: Page 1 of 1	
Company: City & County of Honolulu		PWSID		Job #:		Job #:	
Address: 630 South Beretania Street Chemistry Lab		Due Date Requested		Analysis Requested		Preservation Codes:	
City: Honolulu		TAT Requested (days):		537 1_DW_PREC - 537 1 Full List		R - NaThioSO4	
State, Zip: HI, 96843		Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		525 2_PREC - (MOD) 525plus Plus TICs		RA - NaThioHCl	
Phone: 808-748-5840 (Tel)		PO #: C20525101 exp 05312023		8015B_DRO_LL_CS - HNL Ranges C10-C24/C24-C36/C8-C18		Q - NaZSO3	
Email: kiwamoto@hbws.org		WO #:		8015B_GRO_LL - (MOD) GRO		QA - NaZSO3/HCl	
Project Name: RED-HILL/HBWS Sites		Project #: 38001111		625 1_625 1_SIM		Y - Trizma	
Event Desc: RUSH Weekly Red Hill		SSOW#:		Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/>		I - NH4 Acetate	
Site: Hawaii		Sample Date		Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/>		Other	
Sample Identification		Sample Time		RA		Total Number of Containers	
Ka'amilo Wells		1147		2		Special Instructions/Note:	
Ka'amilo Wells (Matrix Spike)		1147		3		(631A) 2-2+0.3 2.5	
Ka'amilo Wells (Matrix Spike Duplicate)		1147		2		FOX-7720/4914175	
TB: Ka'amilo Wells							
Possible Hazard Identification		Sample Type (C=Comp, G=grab)		Matrix (Water, Sewer, Oil, Other)		380-135326 COC	
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		G		Water			
Deliverable Requested I, II, III, IV, Other (specify)		Preservation Code:		Water			
Empty Kit Relinquished by		Date		Time			
Received by: [Signature]		Date: 2/25/25		Time: 9:44		Company: FEAP	
Received by: [Signature]		Date: 2/25/25		Time: 9:44		Company: FEAP	
Received by: [Signature]		Date: [Blank]		Time: [Blank]		Company: [Blank]	
Custody Seals Intact: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Custody Seal No.		Cooler Temperature(s) °C and Other Remarks:		(631A) 5-0+0.3 5-3 961-1026	



Chain of Custody Record



Client Information (Sub Contract Lab)		Carrier Tracking No(s): 380-190309.1
Client Contact: Shipping/Receiving	Lab PM: Arada, Rachelle	State of Origin: Hawaii
Company: Eurofins Environment Testing Southwest,	E-Mail: Rachelle.Arada@eurofins.com	Job #: 380-135326-1
Address: 2841 Dow Avenue, Suite 100, Tustin	Accreditations Required (See note): State Hawaii	Preservation Codes:
City: Tustin	Due Date Requested: 2/25/2025	
State, Zip: CA, 92780	TAT Requested (days): N/A	
Phone: 714-895-5494(Tel)	PO #: N/A	
Email: N/A	WO #: N/A	
Project Name: RED-HILL	Project #: 3800111	
Site: Honolulu BWS Sites	SSOW#: N/A	

Sample Identification	Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Swab, Composite, Other)	Preservation Code		Field Filtered Sample (Year or No)	Perform MS/MSD (Year or No)	Analysis Requested				Total Number of Containers	Special Instructions/Note:
						8016B_DRO_LL_C18	8016B_GRO_LL6030C (MOD) GRO			625.1_SIMEZE_Prep (MOD) Extended PAH List	625.1626_Prep (MOD) Tentatively Identified Compounds (fold)	8016B_GRO_LL6030C (MOD) GRO	625.1_SIMEZE_Prep (MOD) Extended PAH List		
Ka'amilo Wells (380-135326-1)		2/10/25	11:47 Hawaiian	G	Water	X	X	X	X	X	X	X	X	7	MRLs are needed. Confirm any hits >RL
TB: Ka'amilo Wells (380-135326-2)		2/10/25	11:47 Hawaiian	G	Water	X	X	X	X	X	X	X	X	2	MRLs are needed.

380-135326 Chain of Custody

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
 Unconfirmed
 Deliverable Requested: I, II, III, IV Other (specify) _____
 Primary Deliverable Rank: 2

Empty Kit Relinquished by: _____ Date: _____ Method of Shipment: _____
 Relinquished by: *AN* Date: *2/13/25* Company: *EEA*
 Relinquished by: _____ Date/Time: *13:55* Company: _____
 Relinquished by: _____ Date/Time: _____ Company: _____

Custody Seals Intact: Yes No
 Cooler Temperature(s) °C and Other Remarks: *1.6 / 18 SC14*



Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-135326-1

SDG Number: Weekly

Login Number: 135326

List Number: 1

Creator: Segura, Ryan

List Source: Eurofins Eaton Analytical Pomona

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: 380-135326-1

SDG Number: Weekly

Login Number: 135326

List Number: 2

Creator: Khana, Piyush

List Source: Eurofins Calscience

List Creation: 02/13/25 02:44 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 <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

