

ANALYTICAL REPORT

PREPARED FOR

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JOB DESCRIPTION

RED-HILL
Weekly
RUSH Weekly Red Hill

JOB NUMBER

380-138874-1

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



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Definitions/Glossary

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

Job ID: 380-138874-1
SDG: Weekly

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
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: 380-138874-1

Job ID: 380-138874-1

Eurofins Eaton Analytical Pomona

Job Narrative 380-138874-1

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 3/5/2025 9:20 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.8°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: 380-138874-1
SDG: Weekly

Client Sample ID: HALAWA WELLS UNITS 1 & 2 P1
(331-206-TP065)
PWSID Number: HI0000331

Lab Sample ID: 380-138874-1

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Dieldrin	0.041		0.0099	ug/L	1		525.2	Total/NA
Heptachlor epoxide (isomer B)	0.013		0.0099	ug/L	1		525.2	Total/NA

Client Sample ID: AIEA WELLS PUMPS 1&2 (260) P2
(331-203-TP400)
PWSID Number: HI0000331

Lab Sample ID: 380-138874-2

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Dieldrin	0.010		0.0098	ug/L	1		525.2	Total/NA
1-Methylnaphthalene	0.41		0.19	ug/L	1		625.1 SIM	Total/NA
Phenanthrene	0.19		0.19	ug/L	1		625.1 SIM	Total/NA

Client Sample ID: TB: HALAWA WELLS UNITS 1&2
(331-206-TP065)

Lab Sample ID: 380-138874-3

No Detections.

Client Sample ID: TB: AIEA WELLS PUMPS 1&2 (260)
(331-203-TP400)

Lab Sample ID: 380-138874-4

No Detections.

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: 380-138874-1
SDG: Weekly

**Client Sample ID: HALAWA WELLS UNITS 1 & 2 P1
(331-206-TP065)**

Lab Sample ID: 380-138874-1

Date Collected: 03/03/25 10:00

Matrix: Drinking Water

Date Received: 03/05/25 09:20

PWSID Number: HI0000331

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		03/06/25 07:51	03/06/25 16:07	1
2,4'-DDD	<0.099		0.099	ug/L		03/06/25 07:51	03/06/25 16:07	1
2,4'-DDE	<0.099		0.099	ug/L		03/06/25 07:51	03/06/25 16:07	1
2,4'-DDT	<0.099		0.099	ug/L		03/06/25 07:51	03/06/25 16:07	1
2,4-Dinitrotoluene	<0.099		0.099	ug/L		03/06/25 07:51	03/06/25 16:07	1
2,6-Dinitrotoluene	<0.099		0.099	ug/L		03/06/25 07:51	03/06/25 16:07	1
2-Methylnaphthalene	<0.099		0.099	ug/L		03/06/25 07:51	03/06/25 16:07	1
4,4'-DDD	<0.099		0.099	ug/L		03/06/25 07:51	03/06/25 16:07	1
4,4'-DDE	<0.099		0.099	ug/L		03/06/25 07:51	03/06/25 16:07	1
4,4'-DDT	<0.099		0.099	ug/L		03/06/25 07:51	03/06/25 16:07	1
Acenaphthene	<0.099		0.099	ug/L		03/06/25 07:51	03/06/25 16:07	1
Acenaphthylene	<0.099		0.099	ug/L		03/06/25 07:51	03/06/25 16:07	1
Acetochlor	<0.099		0.099	ug/L		03/06/25 07:51	03/06/25 16:07	1
Alachlor	<0.049		0.049	ug/L		03/06/25 07:51	03/06/25 16:07	1
alpha-BHC	<0.099		0.099	ug/L		03/06/25 07:51	03/06/25 16:07	1
alpha-Chlordane	<0.049		0.049	ug/L		03/06/25 07:51	03/06/25 16:07	1
Anthracene	<0.020		0.020	ug/L		03/06/25 07:51	03/06/25 16:07	1
Atrazine	<0.049		0.049	ug/L		03/06/25 07:51	03/06/25 16:07	1
Benz(a)anthracene	<0.049		0.049	ug/L		03/06/25 07:51	03/06/25 16:07	1
Benzo[a]pyrene	<0.020		0.020	ug/L		03/06/25 07:51	03/06/25 16:07	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		03/06/25 07:51	03/06/25 16:07	1
Benzo[g,h,i]perylene	<0.049		0.049	ug/L		03/06/25 07:51	03/06/25 16:07	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		03/06/25 07:51	03/06/25 16:07	1
beta-BHC	<0.099		0.099	ug/L		03/06/25 07:51	03/06/25 16:07	1
Bis(2-ethylhexyl) phthalate	<0.59		0.59	ug/L		03/06/25 07:51	03/06/25 16:07	1
Bromacil	<0.099		0.099	ug/L		03/06/25 07:51	03/06/25 16:07	1
Butachlor	<0.049		0.049	ug/L		03/06/25 07:51	03/06/25 16:07	1
Butylbenzylphthalate	<0.49		0.49	ug/L		03/06/25 07:51	03/06/25 16:07	1
Chlorobenzilate	<0.099		0.099	ug/L		03/06/25 07:51	03/06/25 16:07	1
Chloroneb	<0.099		0.099	ug/L		03/06/25 07:51	03/06/25 16:07	1
Chlorothalonil (Draconil, Bravo)	<0.099		0.099	ug/L		03/06/25 07:51	03/06/25 16:07	1
Chlorpyrifos	<0.049		0.049	ug/L		03/06/25 07:51	03/06/25 16:07	1
Chrysene	<0.020		0.020	ug/L		03/06/25 07:51	03/06/25 16:07	1
delta-BHC	<0.099		0.099	ug/L		03/06/25 07:51	03/06/25 16:07	1
Di(2-ethylhexyl)adipate	<0.59		0.59	ug/L		03/06/25 07:51	03/06/25 16:07	1
Dibenz(a,h)anthracene	<0.049		0.049	ug/L		03/06/25 07:51	03/06/25 16:07	1
Diclorvos (DDVP)	<0.049		0.049	ug/L		03/06/25 07:51	03/06/25 16:07	1
Dieldrin	0.041		0.0099	ug/L		03/06/25 07:51	03/06/25 16:07	1
Diethylphthalate	<0.49		0.49	ug/L		03/06/25 07:51	03/06/25 16:07	1
Dimethylphthalate	<0.49		0.49	ug/L		03/06/25 07:51	03/06/25 16:07	1
Di-n-butyl phthalate	<0.99		0.99	ug/L		03/06/25 07:51	03/06/25 16:07	1
Di-n-octyl phthalate	<0.099		0.099	ug/L		03/06/25 07:51	03/06/25 16:07	1
Endosulfan I (Alpha)	<0.099		0.099	ug/L		03/06/25 07:51	03/06/25 16:07	1
Endosulfan II (Beta)	<0.099		0.099	ug/L		03/06/25 07:51	03/06/25 16:07	1
Endosulfan sulfate	<0.099		0.099	ug/L		03/06/25 07:51	03/06/25 16:07	1
Endrin	<0.0099		0.0099	ug/L		03/06/25 07:51	03/06/25 16:07	1
Endrin aldehyde	<0.099		0.099	ug/L		03/06/25 07:51	03/06/25 16:07	1
EPTC	<0.099		0.099	ug/L		03/06/25 07:51	03/06/25 16:07	1

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Client Sample Results

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

Job ID: 380-138874-1
SDG: Weekly

**Client Sample ID: HALAWA WELLS UNITS 1 & 2 P1
(331-206-TP065)**

Lab Sample ID: 380-138874-1

Date Collected: 03/03/25 10:00

Matrix: Drinking Water

Date Received: 03/05/25 09:20

PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	<0.099		0.099	ug/L		03/06/25 07:51	03/06/25 16:07	1
Fluorene	<0.049		0.049	ug/L		03/06/25 07:51	03/06/25 16:07	1
gamma-Chlordane	<0.049		0.049	ug/L		03/06/25 07:51	03/06/25 16:07	1
Heptachlor	<0.0099		0.0099	ug/L		03/06/25 07:51	03/06/25 16:07	1
Heptachlor epoxide (isomer B)	0.013		0.0099	ug/L		03/06/25 07:51	03/06/25 16:07	1
Hexachlorobenzene	<0.049		0.049	ug/L		03/06/25 07:51	03/06/25 16:07	1
Hexachlorocyclopentadiene	<0.049		0.049	ug/L		03/06/25 07:51	03/06/25 16:07	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049	ug/L		03/06/25 07:51	03/06/25 16:07	1
Isophorone	<0.099		0.099	ug/L		03/06/25 07:51	03/06/25 16:07	1
Lindane	<0.0099		0.0099	ug/L		03/06/25 07:51	03/06/25 16:07	1
Malathion	<0.099		0.099	ug/L		03/06/25 07:51	03/06/25 16:07	1
Methoxychlor	<0.049		0.049	ug/L		03/06/25 07:51	03/06/25 16:07	1
Metolachlor	<0.049		0.049	ug/L		03/06/25 07:51	03/06/25 16:07	1
Molinate	<0.099		0.099	ug/L		03/06/25 07:51	03/06/25 16:07	1
Naphthalene	<0.099		0.099	ug/L		03/06/25 07:51	03/06/25 16:07	1
Parathion	<0.099		0.099	ug/L		03/06/25 07:51	03/06/25 16:07	1
Pendimethalin (Penoxaline)	<0.099		0.099	ug/L		03/06/25 07:51	03/06/25 16:07	1
Phenanthrene	<0.040		0.040	ug/L		03/06/25 07:51	03/06/25 16:07	1
Propachlor	<0.049		0.049	ug/L		03/06/25 07:51	03/06/25 16:07	1
Pyrene	<0.049		0.049	ug/L		03/06/25 07:51	03/06/25 16:07	1
Simazine	<0.049		0.049	ug/L		03/06/25 07:51	03/06/25 16:07	1
Terbacil	<0.099		0.099	ug/L		03/06/25 07:51	03/06/25 16:07	1
Terbutylazine	<0.099		0.099	ug/L		03/06/25 07:51	03/06/25 16:07	1
Thiobencarb	<0.099		0.099	ug/L		03/06/25 07:51	03/06/25 16:07	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		03/06/25 07:51	03/06/25 16:07	1
trans-Nonachlor	<0.049		0.049	ug/L		03/06/25 07:51	03/06/25 16:07	1
Trifluralin	<0.099		0.099	ug/L		03/06/25 07:51	03/06/25 16:07	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	03/06/25 07:51	03/06/25 16:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	100		70 - 130	03/06/25 07:51	03/06/25 16:07	1
Perylene-d12	94		70 - 130	03/06/25 07:51	03/06/25 16:07	1
Triphenylphosphate	97		70 - 130	03/06/25 07:51	03/06/25 16:07	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		03/06/25 05:28	03/07/25 03:41	1
2-Methylnaphthalene	<0.19		0.19	ug/L		03/06/25 05:28	03/07/25 03:41	1
Acenaphthene	<0.19		0.19	ug/L		03/06/25 05:28	03/07/25 03:41	1
Acenaphthylene	<0.19		0.19	ug/L		03/06/25 05:28	03/07/25 03:41	1
Anthracene	<0.19		0.19	ug/L		03/06/25 05:28	03/07/25 03:41	1
Benzo[a]anthracene	<0.19		0.19	ug/L		03/06/25 05:28	03/07/25 03:41	1
Benzo[a]pyrene	<0.19		0.19	ug/L		03/06/25 05:28	03/07/25 03:41	1
Benzo[b]fluoranthene	<0.19		0.19	ug/L		03/06/25 05:28	03/07/25 03:41	1
Benzo[g,h,i]perylene	<0.19		0.19	ug/L		03/06/25 05:28	03/07/25 03:41	1
Benzo[k]fluoranthene	<0.19		0.19	ug/L		03/06/25 05:28	03/07/25 03:41	1
Chrysene	<0.19		0.19	ug/L		03/06/25 05:28	03/07/25 03:41	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-138874-1
SDG: Weekly

**Client Sample ID: HALAWA WELLS UNITS 1 & 2 P1
(331-206-TP065)**

Lab Sample ID: 380-138874-1

Date Collected: 03/03/25 10:00

Matrix: Drinking Water

Date Received: 03/05/25 09:20

PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	<0.19		0.19	ug/L		03/06/25 05:28	03/07/25 03:41	1
Fluoranthene	<0.19		0.19	ug/L		03/06/25 05:28	03/07/25 03:41	1
Fluorene	<0.19		0.19	ug/L		03/06/25 05:28	03/07/25 03:41	1
Indeno[1,2,3-cd]pyrene	<0.19		0.19	ug/L		03/06/25 05:28	03/07/25 03:41	1
Naphthalene	<0.19		0.19	ug/L		03/06/25 05:28	03/07/25 03:41	1
Phenanthrene	<0.19		0.19	ug/L		03/06/25 05:28	03/07/25 03:41	1
Pyrene	<0.19		0.19	ug/L		03/06/25 05:28	03/07/25 03:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	60		28 - 127			03/06/25 05:28	03/07/25 03:41	1
2-Fluorobiphenyl (Surr)	55		31 - 120			03/06/25 05:28	03/07/25 03:41	1
2-Fluorophenol (Surr)	27		17 - 120			03/06/25 05:28	03/07/25 03:41	1
Nitrobenzene-d5 (Surr)	52		27 - 120			03/06/25 05:28	03/07/25 03:41	1
Phenol-d6 (Surr)	18		10 - 120			03/06/25 05:28	03/07/25 03:41	1
p-Terphenyl-d14 (Surr)	82		45 - 120			03/06/25 05:28	03/07/25 03:41	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
Unknown	10	T J	ug/L		2.58	N/A	03/06/25 05:28	03/17/25 23:16	1
Cyclopentane, 1,2,3,4,5-pentamethyl-	30	T J N	ug/L		2.81	1000152-79-7	03/06/25 05:28	03/17/25 23:16	1
Propanoic acid, 2-methyl-, 3-methylbutyl ester	14	T J N	ug/L		2.90	2050-01-3	03/06/25 05:28	03/17/25 23:16	1
Unknown	4.4	T J	ug/L		3.00	N/A	03/06/25 05:28	03/17/25 23:16	1
3-Pentenoic acid, 2,2,4-trimethyl-	19	T J N	ug/L		3.03	4177-03-1	03/06/25 05:28	03/17/25 23:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	76		33 - 139				03/06/25 05:28	03/17/25 23:16	1
2-Fluorobiphenyl (Surr)	64		33 - 126				03/06/25 05:28	03/17/25 23:16	1
2-Fluorophenol (Surr)	31		12 - 120				03/06/25 05:28	03/17/25 23:16	1
Nitrobenzene-d5 (Surr)	64		36 - 120				03/06/25 05:28	03/17/25 23:16	1
Phenol-d6 (Surr)	21		10 - 120				03/06/25 05:28	03/17/25 23:16	1
p-Terphenyl-d14 (Surr)	99		47 - 131				03/06/25 05:28	03/17/25 23:16	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			03/11/25 16:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		38 - 134				03/11/25 16:03	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		03/07/25 16:10	03/15/25 06:40	1
Motor Oil Range Organics [C24-C36]	<26		26	ug/L		03/07/25 16:10	03/15/25 06:40	1
C8-C18	<26		26	ug/L		03/07/25 16:10	03/15/25 06:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	81		60 - 130			03/07/25 16:10	03/15/25 06:40	1

Euofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-138874-1
 SDG: Weekly

**Client Sample ID: AIEA WELLS PUMPS 1&2 (260) P2
 (331-203-TP400)**

Lab Sample ID: 380-138874-2

Date Collected: 03/03/25 11:09

Matrix: Drinking Water

Date Received: 03/05/25 09:20

PWSID Number: HI0000331

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		03/06/25 07:51	03/06/25 16:28	1
2,4'-DDD	<0.098		0.098	ug/L		03/06/25 07:51	03/06/25 16:28	1
2,4'-DDE	<0.098		0.098	ug/L		03/06/25 07:51	03/06/25 16:28	1
2,4'-DDT	<0.098		0.098	ug/L		03/06/25 07:51	03/06/25 16:28	1
2,4-Dinitrotoluene	<0.098		0.098	ug/L		03/06/25 07:51	03/06/25 16:28	1
2,6-Dinitrotoluene	<0.098		0.098	ug/L		03/06/25 07:51	03/06/25 16:28	1
2-Methylnaphthalene	<0.098		0.098	ug/L		03/06/25 07:51	03/06/25 16:28	1
4,4'-DDD	<0.098		0.098	ug/L		03/06/25 07:51	03/06/25 16:28	1
4,4'-DDE	<0.098		0.098	ug/L		03/06/25 07:51	03/06/25 16:28	1
4,4'-DDT	<0.098		0.098	ug/L		03/06/25 07:51	03/06/25 16:28	1
Acenaphthene	<0.098		0.098	ug/L		03/06/25 07:51	03/06/25 16:28	1
Acenaphthylene	<0.098		0.098	ug/L		03/06/25 07:51	03/06/25 16:28	1
Acetochlor	<0.098		0.098	ug/L		03/06/25 07:51	03/06/25 16:28	1
Alachlor	<0.049		0.049	ug/L		03/06/25 07:51	03/06/25 16:28	1
alpha-BHC	<0.098		0.098	ug/L		03/06/25 07:51	03/06/25 16:28	1
alpha-Chlordane	<0.049		0.049	ug/L		03/06/25 07:51	03/06/25 16:28	1
Anthracene	<0.020		0.020	ug/L		03/06/25 07:51	03/06/25 16:28	1
Atrazine	<0.049		0.049	ug/L		03/06/25 07:51	03/06/25 16:28	1
Benz(a)anthracene	<0.049		0.049	ug/L		03/06/25 07:51	03/06/25 16:28	1
Benzo[a]pyrene	<0.020		0.020	ug/L		03/06/25 07:51	03/06/25 16:28	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		03/06/25 07:51	03/06/25 16:28	1
Benzo[g,h,i]perylene	<0.049		0.049	ug/L		03/06/25 07:51	03/06/25 16:28	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		03/06/25 07:51	03/06/25 16:28	1
beta-BHC	<0.098		0.098	ug/L		03/06/25 07:51	03/06/25 16:28	1
Bis(2-ethylhexyl) phthalate	<0.59		0.59	ug/L		03/06/25 07:51	03/06/25 16:28	1
Bromacil	<0.098		0.098	ug/L		03/06/25 07:51	03/06/25 16:28	1
Butachlor	<0.049		0.049	ug/L		03/06/25 07:51	03/06/25 16:28	1
Butylbenzylphthalate	<0.49		0.49	ug/L		03/06/25 07:51	03/06/25 16:28	1
Chlorobenzilate	<0.098		0.098	ug/L		03/06/25 07:51	03/06/25 16:28	1
Chloroneb	<0.098		0.098	ug/L		03/06/25 07:51	03/06/25 16:28	1
Chlorothalonil (Draconil, Bravo)	<0.098		0.098	ug/L		03/06/25 07:51	03/06/25 16:28	1
Chlorpyrifos	<0.049		0.049	ug/L		03/06/25 07:51	03/06/25 16:28	1
Chrysene	<0.020		0.020	ug/L		03/06/25 07:51	03/06/25 16:28	1
delta-BHC	<0.098		0.098	ug/L		03/06/25 07:51	03/06/25 16:28	1
Di(2-ethylhexyl)adipate	<0.59		0.59	ug/L		03/06/25 07:51	03/06/25 16:28	1
Dibenz(a,h)anthracene	<0.049		0.049	ug/L		03/06/25 07:51	03/06/25 16:28	1
Diclorvos (DDVP)	<0.049		0.049	ug/L		03/06/25 07:51	03/06/25 16:28	1
Dieldrin	0.010		0.0098	ug/L		03/06/25 07:51	03/06/25 16:28	1
Diethylphthalate	<0.49		0.49	ug/L		03/06/25 07:51	03/06/25 16:28	1
Dimethylphthalate	<0.49		0.49	ug/L		03/06/25 07:51	03/06/25 16:28	1
Di-n-butyl phthalate	<0.98		0.98	ug/L		03/06/25 07:51	03/06/25 16:28	1
Di-n-octyl phthalate	<0.098		0.098	ug/L		03/06/25 07:51	03/06/25 16:28	1
Endosulfan I (Alpha)	<0.098		0.098	ug/L		03/06/25 07:51	03/06/25 16:28	1
Endosulfan II (Beta)	<0.098		0.098	ug/L		03/06/25 07:51	03/06/25 16:28	1
Endosulfan sulfate	<0.098		0.098	ug/L		03/06/25 07:51	03/06/25 16:28	1
Endrin	<0.0098		0.0098	ug/L		03/06/25 07:51	03/06/25 16:28	1
Endrin aldehyde	<0.098		0.098	ug/L		03/06/25 07:51	03/06/25 16:28	1
EPTC	<0.098		0.098	ug/L		03/06/25 07:51	03/06/25 16:28	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-138874-1
SDG: Weekly

**Client Sample ID: AIEA WELLS PUMPS 1&2 (260) P2
(331-203-TP400)**

Lab Sample ID: 380-138874-2

Date Collected: 03/03/25 11:09

Matrix: Drinking Water

Date Received: 03/05/25 09:20

PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	<0.098		0.098	ug/L		03/06/25 07:51	03/06/25 16:28	1
Fluorene	<0.049		0.049	ug/L		03/06/25 07:51	03/06/25 16:28	1
gamma-Chlordane	<0.049		0.049	ug/L		03/06/25 07:51	03/06/25 16:28	1
Heptachlor	<0.0098		0.0098	ug/L		03/06/25 07:51	03/06/25 16:28	1
Heptachlor epoxide (isomer B)	<0.0098		0.0098	ug/L		03/06/25 07:51	03/06/25 16:28	1
Hexachlorobenzene	<0.049		0.049	ug/L		03/06/25 07:51	03/06/25 16:28	1
Hexachlorocyclopentadiene	<0.049		0.049	ug/L		03/06/25 07:51	03/06/25 16:28	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049	ug/L		03/06/25 07:51	03/06/25 16:28	1
Isophorone	<0.098		0.098	ug/L		03/06/25 07:51	03/06/25 16:28	1
Lindane	<0.0098		0.0098	ug/L		03/06/25 07:51	03/06/25 16:28	1
Malathion	<0.098		0.098	ug/L		03/06/25 07:51	03/06/25 16:28	1
Methoxychlor	<0.049		0.049	ug/L		03/06/25 07:51	03/06/25 16:28	1
Metolachlor	<0.049		0.049	ug/L		03/06/25 07:51	03/06/25 16:28	1
Molinate	<0.098		0.098	ug/L		03/06/25 07:51	03/06/25 16:28	1
Naphthalene	<0.098		0.098	ug/L		03/06/25 07:51	03/06/25 16:28	1
Parathion	<0.098		0.098	ug/L		03/06/25 07:51	03/06/25 16:28	1
Pendimethalin (Penoxaline)	<0.098		0.098	ug/L		03/06/25 07:51	03/06/25 16:28	1
Phenanthrene	<0.039		0.039	ug/L		03/06/25 07:51	03/06/25 16:28	1
Propachlor	<0.049		0.049	ug/L		03/06/25 07:51	03/06/25 16:28	1
Pyrene	<0.049		0.049	ug/L		03/06/25 07:51	03/06/25 16:28	1
Simazine	<0.049		0.049	ug/L		03/06/25 07:51	03/06/25 16:28	1
Terbacil	<0.098		0.098	ug/L		03/06/25 07:51	03/06/25 16:28	1
Terbutylazine	<0.098		0.098	ug/L		03/06/25 07:51	03/06/25 16:28	1
Thiobencarb	<0.098		0.098	ug/L		03/06/25 07:51	03/06/25 16:28	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		03/06/25 07:51	03/06/25 16:28	1
trans-Nonachlor	<0.049		0.049	ug/L		03/06/25 07:51	03/06/25 16:28	1
Trifluralin	<0.098		0.098	ug/L		03/06/25 07:51	03/06/25 16:28	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	03/06/25 07:51	03/06/25 16:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	98		70 - 130	03/06/25 07:51	03/06/25 16:28	1
Perylene-d12	97		70 - 130	03/06/25 07:51	03/06/25 16:28	1
Triphenylphosphate	96		70 - 130	03/06/25 07:51	03/06/25 16:28	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	0.41		0.19	ug/L		03/06/25 05:28	03/07/25 04:04	1
2-Methylnaphthalene	<0.19		0.19	ug/L		03/06/25 05:28	03/07/25 04:04	1
Acenaphthene	<0.19		0.19	ug/L		03/06/25 05:28	03/07/25 04:04	1
Acenaphthylene	<0.19		0.19	ug/L		03/06/25 05:28	03/07/25 04:04	1
Anthracene	<0.19		0.19	ug/L		03/06/25 05:28	03/07/25 04:04	1
Benzo[a]anthracene	<0.19		0.19	ug/L		03/06/25 05:28	03/07/25 04:04	1
Benzo[a]pyrene	<0.19		0.19	ug/L		03/06/25 05:28	03/07/25 04:04	1
Benzo[b]fluoranthene	<0.19		0.19	ug/L		03/06/25 05:28	03/07/25 04:04	1
Benzo[g,h,i]perylene	<0.19		0.19	ug/L		03/06/25 05:28	03/07/25 04:04	1
Benzo[k]fluoranthene	<0.19		0.19	ug/L		03/06/25 05:28	03/07/25 04:04	1
Chrysene	<0.19		0.19	ug/L		03/06/25 05:28	03/07/25 04:04	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-138874-1
SDG: Weekly

**Client Sample ID: AIEA WELLS PUMPS 1&2 (260) P2
(331-203-TP400)**

Lab Sample ID: 380-138874-2

Date Collected: 03/03/25 11:09

Matrix: Drinking Water

Date Received: 03/05/25 09:20

PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	<0.19		0.19	ug/L		03/06/25 05:28	03/07/25 04:04	1
Fluoranthene	<0.19		0.19	ug/L		03/06/25 05:28	03/07/25 04:04	1
Fluorene	<0.19		0.19	ug/L		03/06/25 05:28	03/07/25 04:04	1
Indeno[1,2,3-cd]pyrene	<0.19		0.19	ug/L		03/06/25 05:28	03/07/25 04:04	1
Naphthalene	<0.19		0.19	ug/L		03/06/25 05:28	03/07/25 04:04	1
Phenanthrene	0.19		0.19	ug/L		03/06/25 05:28	03/07/25 04:04	1
Pyrene	<0.19		0.19	ug/L		03/06/25 05:28	03/07/25 04:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	74		28 - 127	03/06/25 05:28	03/07/25 04:04	1
2-Fluorobiphenyl (Surr)	49		31 - 120	03/06/25 05:28	03/07/25 04:04	1
2-Fluorophenol (Surr)	29		17 - 120	03/06/25 05:28	03/07/25 04:04	1
Nitrobenzene-d5 (Surr)	43		27 - 120	03/06/25 05:28	03/07/25 04:04	1
Phenol-d6 (Surr)	22		10 - 120	03/06/25 05:28	03/07/25 04:04	1
p-Terphenyl-d14 (Surr)	73		45 - 120	03/06/25 05:28	03/07/25 04:04	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
Unknown	12	T J	ug/L		2.58	N/A	03/06/25 05:28	03/17/25 23:40	1
Cyclopentane-1,2-diol	31	T J N	ug/L		2.81	1000194-24-0	03/06/25 05:28	03/17/25 23:40	1
1-Heptene, 4-methyl-	16	T J N	ug/L		2.90	13151-05-8	03/06/25 05:28	03/17/25 23:40	1
Unknown	5.1	T J	ug/L		3.00	N/A	03/06/25 05:28	03/17/25 23:40	1
2-Pentene, 2,3,4-trimethyl-	21	T J N	ug/L		3.03	565-77-5	03/06/25 05:28	03/17/25 23:40	1
Unknown	6.8	T J	ug/L		5.50	N/A	03/06/25 05:28	03/17/25 23:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	67		33 - 139	03/06/25 05:28	03/17/25 23:40	1
2-Fluorobiphenyl (Surr)	63		33 - 126	03/06/25 05:28	03/17/25 23:40	1
2-Fluorophenol (Surr)	38		12 - 120	03/06/25 05:28	03/17/25 23:40	1
Nitrobenzene-d5 (Surr)	64		36 - 120	03/06/25 05:28	03/17/25 23:40	1
Phenol-d6 (Surr)	28		10 - 120	03/06/25 05:28	03/17/25 23:40	1
p-Terphenyl-d14 (Surr)	101		47 - 131	03/06/25 05:28	03/17/25 23:40	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			03/11/25 16:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		38 - 134		03/11/25 16:29	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		03/07/25 16:10	03/15/25 07:23	1
Motor Oil Range Organics [C24-C36]	<26		26	ug/L		03/07/25 16:10	03/15/25 07:23	1
C8-C18	<26		26	ug/L		03/07/25 16:10	03/15/25 07:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	82		60 - 130	03/07/25 16:10	03/15/25 07:23	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-138874-1
 SDG: Weekly

**Client Sample ID: TB: HALAWA WELLS UNITS 1&2
 (331-206-TP065)**

Lab Sample ID: 380-138874-3

Date Collected: 03/03/25 10:00

Matrix: Water

Date Received: 03/05/25 09:20

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			03/11/25 13:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		38 - 134				03/11/25 13:52	1

**Client Sample ID: TB: AIEA WELLS PUMPS 1&2 (260)
 (331-203-TP400)**

Lab Sample ID: 380-138874-4

Date Collected: 03/03/25 11:09

Matrix: Water

Date Received: 03/05/25 09:20

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			03/11/25 14:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		38 - 134				03/11/25 14:18	1

Action Limit Summary

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

Job ID: 380-138874-1
SDG: Weekly

Client Sample ID: HALAWA WELLS UNITS 1 & 2 P1
(331-206-TP065)
PWSID Number: HI0000331

Lab Sample ID: 380-138874-1

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	<0.049		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	<0.0099		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)	0.013		ug/L	0.2	0.0099	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	<0.0099		ug/L	0.2	0.0099	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

Client Sample ID: AIEA WELLS PUMPS 1&2 (260) P2
(331-203-TP400)
PWSID Number: HI0000331

Lab Sample ID: 380-138874-2

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: 380-138874-1
SDG: Weekly

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

Matrix: Drinking Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	2NMX	PRY	TPP
		(70-130)	(70-130)	(70-130)
380-138874-1	HALAWA WELLS UNITS 1 & 2 P1 (	100	94	97
380-138874-2	AIEA WELLS PUMPS 1&2 (260) P2 (331-203-TP400)	98	97	96

Surrogate Legend

2NMX = 2-Nitro-m-xylene
PRY = Perylene d12
TPP = Triphenylphosphate

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

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	2NMX	PRY	TPP
		(70-130)	(70-130)	(70-130)
380-137950-AM-1-A MS	Matrix Spike	97	95	102
380-138081-G-1-A DU	Duplicate	98	91	96
LCS 380-140159/23-A	Lab Control Sample	97	98	100
MB 380-140159/21-A	Method Blank	97	99	98
MRL 380-140159/22-A	Lab Control Sample	96	96	94

Surrogate Legend

2NMX = 2-Nitro-m-xylene
PRY = Perylene-d12
TPP = Triphenylphosphate

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

Matrix: Drinking Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TBP	FBP	2FP	NBZ	PHL6	TPHd14
		(33-139)	(33-126)	(12-120)	(36-120)	(10-120)	(47-131)
380-138874-1	HALAWA WELLS UNITS 1 & 2 P1 (	76	64	31	64	21	99
380-138874-2	AIEA WELLS PUMPS 1&2 (260) P2 (331-203-TP400)	67	63	38	64	28	101

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 - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TBP	FBP	2FP	NBZ	PHL6	TPHd14
		(33-139)	(33-126)	(12-120)	(36-120)	(10-120)	(47-131)
MB 570-541655/1-A	Method Blank	106	88	47	93	32	104

Surrogate Legend

Eurofins Eaton Analytical Pomona

Surrogate Summary

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

Job ID: 380-138874-1
 SDG: Weekly

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: Drinking 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)
380-138874-1	HALAWA WELLS UNITS 1 & 2 P1 (	60	55	27	52	18	82
380-138874-1 MS	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	73	69	32	53	24	85
380-138874-1 MSD	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	74	75	43	65	29	83
380-138874-2	AIEA WELLS PUMPS 1&2 (260) P2 (331-203-TP400)	74	49	29	43	22	73

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)
LCS 570-541655/2-A	Lab Control Sample	74	74	44	64	31	84
LCSD 570-541655/3-A	Lab Control Sample Dup	67	63	31	51	23	79
MB 570-541655/1-A	Method Blank	74	73	42	75	27	87

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

Matrix: Drinking Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)
		BFB1 (38-134)
380-138874-1	HALAWA WELLS UNITS 1 & 2 P1 (	84
380-138874-1 MS	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	100
380-138874-1 MSD	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	101
380-138874-2	AIEA WELLS PUMPS 1&2 (260) P2 (331-203-TP400)	82

Eurofins Eaton Analytical Pomona

Surrogate Summary

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

Job ID: 380-138874-1
 SDG: Weekly

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

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)
380-138874-3	TB: HALAWA WELLS UNITS 1&2 (3	83
380-138874-4	TB: AIEA WELLS PUMPS 1&2 (260) (331-203-TP400)	82
LCS 570 543427/7	Lab Control Sample	102
LCSD 570-543427/5	Lab Control Sample Dup	100
MB 570-543427/6	Method Blank	80
MRL 570-543427/3	Lab Control Sample	81

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

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

Matrix: Drinking Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	OTCSN1 (60-130)
380-138874-1	HALAWA WELLS UNITS 1 & 2 P1 (3	81
380-138874-1 MS	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	85
380-138874-1 MSD	HALAWA WELLS UNITS 1 & 2 (331 206 TP065)	84
380-138874-2	AIEA WELLS PUMPS 1&2 (260) P2 (331-203-TP400)	82

Surrogate Legend

OTCSN = n-Octacosane (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)
LCS 570-542436/2-A	Lab Control Sample	82
LCSD 570-542436/3-A	Lab Control Sample Dup	82
MB 570-542436/1-A	Method Blank	86
MRL 570-542436/4-A	Lab Control Sample	82

Surrogate Legend

OTCSN = n-Octacosane (Surr)

QC Sample Results

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

Job ID: 380-138874-1
 SDG: Weekly

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

Lab Sample ID: MB 380-140159/21-A
Matrix: Water
Analysis Batch: 140215

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 140159

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
1-Methylnaphthalene	<0.097		0.097	ug/L		03/06/25 07:51	03/06/25 15:05	1
2,4'-DDD	<0.097		0.097	ug/L		03/06/25 07:51	03/06/25 15:05	1
2,4'-DDE	<0.097		0.097	ug/L		03/06/25 07:51	03/06/25 15:05	1
2,4'-DDT	<0.097		0.097	ug/L		03/06/25 07:51	03/06/25 15:05	1
2,4-Dinitrotoluene	<0.097		0.097	ug/L		03/06/25 07:51	03/06/25 15:05	1
2,6-Dinitrotoluene	<0.097		0.097	ug/L		03/06/25 07:51	03/06/25 15:05	1
2-Methylnaphthalene	<0.097		0.097	ug/L		03/06/25 07:51	03/06/25 15:05	1
4,4'-DDD	<0.097		0.097	ug/L		03/06/25 07:51	03/06/25 15:05	1
4,4'-DDE	<0.097		0.097	ug/L		03/06/25 07:51	03/06/25 15:05	1
4,4'-DDT	<0.097		0.097	ug/L		03/06/25 07:51	03/06/25 15:05	1
Acenaphthene	<0.097		0.097	ug/L		03/06/25 07:51	03/06/25 15:05	1
Acenaphthylene	<0.097		0.097	ug/L		03/06/25 07:51	03/06/25 15:05	1
Acetochlor	<0.097		0.097	ug/L		03/06/25 07:51	03/06/25 15:05	1
Alachlor	<0.048		0.048	ug/L		03/06/25 07:51	03/06/25 15:05	1
alpha-BHC	<0.097		0.097	ug/L		03/06/25 07:51	03/06/25 15:05	1
alpha-Chlordane	<0.048		0.048	ug/L		03/06/25 07:51	03/06/25 15:05	1
Anthracene	<0.019		0.019	ug/L		03/06/25 07:51	03/06/25 15:05	1
Atrazine	<0.048		0.048	ug/L		03/06/25 07:51	03/06/25 15:05	1
Benz(a)anthracene	<0.048		0.048	ug/L		03/06/25 07:51	03/06/25 15:05	1
Benzo[a]pyrene	<0.019		0.019	ug/L		03/06/25 07:51	03/06/25 15:05	1
Benzo[b]fluoranthene	<0.019		0.019	ug/L		03/06/25 07:51	03/06/25 15:05	1
Benzo[g,h,i]perylene	<0.048		0.048	ug/L		03/06/25 07:51	03/06/25 15:05	1
Benzo[k]fluoranthene	<0.019		0.019	ug/L		03/06/25 07:51	03/06/25 15:05	1
beta-BHC	<0.097		0.097	ug/L		03/06/25 07:51	03/06/25 15:05	1
Bis(2-ethylhexyl) phthalate	<0.58		0.58	ug/L		03/06/25 07:51	03/06/25 15:05	1
Bromacil	<0.097		0.097	ug/L		03/06/25 07:51	03/06/25 15:05	1
Butachlor	<0.048		0.048	ug/L		03/06/25 07:51	03/06/25 15:05	1
Butylbenzylphthalate	<0.48		0.48	ug/L		03/06/25 07:51	03/06/25 15:05	1
Chlorobenzilate	<0.097		0.097	ug/L		03/06/25 07:51	03/06/25 15:05	1
Chloroneb	<0.097		0.097	ug/L		03/06/25 07:51	03/06/25 15:05	1
Chlorothalonil (Draconil, Bravo)	<0.097		0.097	ug/L		03/06/25 07:51	03/06/25 15:05	1
Chlorpyrifos	<0.048		0.048	ug/L		03/06/25 07:51	03/06/25 15:05	1
Chrysene	<0.019		0.019	ug/L		03/06/25 07:51	03/06/25 15:05	1
delta-BHC	<0.097		0.097	ug/L		03/06/25 07:51	03/06/25 15:05	1
Di(2-ethylhexyl)adipate	<0.58		0.58	ug/L		03/06/25 07:51	03/06/25 15:05	1
Dibenz(a,h)anthracene	<0.048		0.048	ug/L		03/06/25 07:51	03/06/25 15:05	1
Diclorvos (DDVP)	<0.048		0.048	ug/L		03/06/25 07:51	03/06/25 15:05	1
Dieldrin	<0.0097		0.0097	ug/L		03/06/25 07:51	03/06/25 15:05	1
Diethylphthalate	<0.48		0.48	ug/L		03/06/25 07:51	03/06/25 15:05	1
Dimethylphthalate	<0.48		0.48	ug/L		03/06/25 07:51	03/06/25 15:05	1
Di-n-butyl phthalate	<0.97		0.97	ug/L		03/06/25 07:51	03/06/25 15:05	1
Di-n-octyl phthalate	<0.097		0.097	ug/L		03/06/25 07:51	03/06/25 15:05	1
Endosulfan I (Alpha)	<0.097		0.097	ug/L		03/06/25 07:51	03/06/25 15:05	1
Endosulfan II (Beta)	<0.097		0.097	ug/L		03/06/25 07:51	03/06/25 15:05	1
Endosulfan sulfate	<0.097		0.097	ug/L		03/06/25 07:51	03/06/25 15:05	1
Endrin	<0.0097		0.0097	ug/L		03/06/25 07:51	03/06/25 15:05	1
Endrin aldehyde	<0.097		0.097	ug/L		03/06/25 07:51	03/06/25 15:05	1
EPTC	<0.097		0.097	ug/L		03/06/25 07:51	03/06/25 15:05	1

QC Sample Results

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

Job ID: 380-138874-1
SDG: Weekly

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

Lab Sample ID: MB 380-140159/21-A
Matrix: Water
Analysis Batch: 140215

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 140159

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Fluoranthene	<0.097		0.097	ug/L		03/06/25 07:51	03/06/25 15:05	1
Fluorene	<0.048		0.048	ug/L		03/06/25 07:51	03/06/25 15:05	1
gamma-Chlordane	<0.048		0.048	ug/L		03/06/25 07:51	03/06/25 15:05	1
Heptachlor	<0.0097		0.0097	ug/L		03/06/25 07:51	03/06/25 15:05	1
Heptachlor epoxide (isomer B)	<0.0097		0.0097	ug/L		03/06/25 07:51	03/06/25 15:05	1
Hexachlorobenzene	<0.048		0.048	ug/L		03/06/25 07:51	03/06/25 15:05	1
Hexachlorocyclopentadiene	<0.048		0.048	ug/L		03/06/25 07:51	03/06/25 15:05	1
Indeno[1,2,3-cd]pyrene	<0.048		0.048	ug/L		03/06/25 07:51	03/06/25 15:05	1
Isophorone	<0.097		0.097	ug/L		03/06/25 07:51	03/06/25 15:05	1
Lindane	<0.0097		0.0097	ug/L		03/06/25 07:51	03/06/25 15:05	1
Malathion	<0.097		0.097	ug/L		03/06/25 07:51	03/06/25 15:05	1
Methoxychlor	<0.048		0.048	ug/L		03/06/25 07:51	03/06/25 15:05	1
Metolachlor	<0.048		0.048	ug/L		03/06/25 07:51	03/06/25 15:05	1
Molinate	<0.097		0.097	ug/L		03/06/25 07:51	03/06/25 15:05	1
Naphthalene	<0.097		0.097	ug/L		03/06/25 07:51	03/06/25 15:05	1
Parathion	<0.097		0.097	ug/L		03/06/25 07:51	03/06/25 15:05	1
Pendimethalin (Penoxaline)	<0.097		0.097	ug/L		03/06/25 07:51	03/06/25 15:05	1
Phenanthrene	<0.039		0.039	ug/L		03/06/25 07:51	03/06/25 15:05	1
Propachlor	<0.048		0.048	ug/L		03/06/25 07:51	03/06/25 15:05	1
Pyrene	<0.048		0.048	ug/L		03/06/25 07:51	03/06/25 15:05	1
Simazine	<0.048		0.048	ug/L		03/06/25 07:51	03/06/25 15:05	1
Terbacil	<0.097		0.097	ug/L		03/06/25 07:51	03/06/25 15:05	1
Terbutylazine	<0.097		0.097	ug/L		03/06/25 07:51	03/06/25 15:05	1
Thiobencarb	<0.097		0.097	ug/L		03/06/25 07:51	03/06/25 15:05	1
Total Permethrin (mixed isomers)	<0.19		0.19	ug/L		03/06/25 07:51	03/06/25 15:05	1
trans-Nonachlor	<0.048		0.048	ug/L		03/06/25 07:51	03/06/25 15:05	1
Trifluralin	<0.097		0.097	ug/L		03/06/25 07:51	03/06/25 15:05	1

Tentatively Identified Compound	MB	MB	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
	Est. Result	Qualifier							
Unknown	0.547	T J	ug/L		4.72	N/A	03/06/25 07:51	03/06/25 15:05	1
9-Octadecenamamide, (Z)-	0.865	T J N	ug/L		7.87	301-02-0	03/06/25 07:51	03/06/25 15:05	1
13-Docosenamamide, (Z)-	1.30	T J N	ug/L		10.40	112-84-5	03/06/25 07:51	03/06/25 15:05	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2-Nitro-m-xylene	97		70 - 130	03/06/25 07:51	03/06/25 15:05	1
Perylene-d12	99		70 - 130	03/06/25 07:51	03/06/25 15:05	1
Triphenylphosphate	98		70 - 130	03/06/25 07:51	03/06/25 15:05	1

Lab Sample ID: LCS 380-140159/23-A
Matrix: Water
Analysis Batch: 140215

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 140159

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
1-Methylnaphthalene	1.93	1.82		ug/L		94	70 - 130
2,4'-DDD	1.93	2.12		ug/L		110	70 - 130
2,4'-DDE	1.93	1.95		ug/L		101	70 - 130
2,4'-DDT	1.93	2.14		ug/L		111	70 - 130
2,4-Dinitrotoluene	1.93	1.85		ug/L		96	70 - 130

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-138874-1
SDG: Weekly

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

Lab Sample ID: LCS 380-140159/23-A

Matrix: Water

Analysis Batch: 140215

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 140159

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,6-Dinitrotoluene	1.93	1.69		ug/L		88	70 - 130
2-Methylnaphthalene	1.93	1.84		ug/L		95	70 - 130
4,4'-DDD	1.93	2.17		ug/L		112	70 - 130
4,4'-DDE	1.93	2.11		ug/L		109	70 - 130
4,4'-DDT	1.93	2.05		ug/L		106	70 - 130
Acenaphthene	1.93	1.97		ug/L		102	70 - 130
Acenaphthylene	1.93	1.92		ug/L		100	70 - 130
Acetochlor	1.93	1.96		ug/L		102	70 - 130
Alachlor	1.93	1.93		ug/L		100	70 - 130
alpha-BHC	1.93	2.04		ug/L		106	70 - 130
alpha-Chlordane	1.93	1.93		ug/L		100	70 - 130
Anthracene	1.93	2.01		ug/L		104	70 - 130
Atrazine	1.93	2.04		ug/L		106	70 - 130
Benz(a)anthracene	1.93	1.99		ug/L		103	70 - 130
Benzo[a]pyrene	1.93	2.05		ug/L		106	70 - 130
Benzo[b]fluoranthene	1.93	2.12		ug/L		110	70 - 130
Benzo[g,h,i]perylene	1.93	2.04		ug/L		106	70 - 130
Benzo[k]fluoranthene	1.93	2.05		ug/L		106	70 - 130
beta-BHC	1.93	2.07		ug/L		107	70 - 130
Bis(2-ethylhexyl) phthalate	1.93	1.98		ug/L		103	70 - 130
Bromacil	1.93	1.76		ug/L		91	70 - 130
Butachlor	1.93	2.14		ug/L		111	70 - 130
Butylbenzylphthalate	1.93	1.99		ug/L		103	70 - 130
Chlorobenzilate	1.93	1.80		ug/L		93	70 - 130
Chloroneb	1.93	2.03		ug/L		105	70 - 130
Chlorothalonil (Draconil, Bravo)	1.93	2.18		ug/L		113	70 - 130
Chlorpyrifos	1.93	2.03		ug/L		105	70 - 130
Chrysene	1.93	1.96		ug/L		102	70 - 130
delta-BHC	1.93	2.11		ug/L		109	70 - 130
Di(2-ethylhexyl)adipate	1.93	1.97		ug/L		102	70 - 130
Dibenz(a,h)anthracene	1.93	1.95		ug/L		101	70 - 130
Diclorvos (DDVP)	1.93	1.91		ug/L		99	70 - 130
Dieldrin	1.93	2.01		ug/L		104	70 - 130
Diethylphthalate	1.93	1.97		ug/L		102	70 - 130
Dimethylphthalate	1.93	1.95		ug/L		101	70 - 130
Di-n-butyl phthalate	3.86	4.26		ug/L		110	70 - 130
Di-n-octyl phthalate	1.93	1.83		ug/L		95	70 - 130
Endosulfan I (Alpha)	1.93	1.95		ug/L		101	70 - 130
Endosulfan II (Beta)	1.93	2.05		ug/L		106	70 - 130
Endosulfan sulfate	1.93	2.14		ug/L		111	70 - 130
Endrin	1.93	2.17		ug/L		112	70 - 130
Endrin aldehyde	1.93	2.01		ug/L		104	60 - 130
EPTC	1.93	2.00		ug/L		104	70 - 130
Fluoranthene	1.93	2.04		ug/L		106	70 - 130
Fluorene	1.93	1.95		ug/L		101	70 - 130
gamma-Chlordane	1.93	1.83		ug/L		95	70 - 130
Heptachlor	1.93	2.22		ug/L		115	70 - 130
Heptachlor epoxide (isomer B)	1.93	2.18		ug/L		113	70 - 130
Hexachlorobenzene	1.93	1.81		ug/L		94	70 - 130

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-138874-1
SDG: Weekly

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

Lab Sample ID: LCS 380-140159/23-A

Matrix: Water

Analysis Batch: 140215

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 140159

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Hexachlorocyclopentadiene	1.93	1.82		ug/L		94	70 - 130
Indeno[1,2,3-cd]pyrene	1.93	1.96		ug/L		102	70 - 130
Isophorone	1.93	2.02		ug/L		105	70 - 130
Lindane	1.93	2.05		ug/L		106	70 - 130
Malathion	1.93	1.98		ug/L		103	70 - 130
Methoxychlor	1.93	2.10		ug/L		109	70 - 130
Metolachlor	1.93	2.23		ug/L		116	70 - 130
Molinate	1.93	2.03		ug/L		105	70 - 130
Naphthalene	1.93	1.97		ug/L		102	70 - 130
Parathion	1.93	2.03		ug/L		105	70 - 130
Pendimethalin (Penoxaline)	1.93	2.02		ug/L		105	70 - 130
Phenanthrene	1.93	2.00		ug/L		103	70 - 130
Propachlor	1.93	2.03		ug/L		105	70 - 130
Pyrene	1.93	2.07		ug/L		107	70 - 130
Simazine	1.93	2.03		ug/L		105	70 - 130
Terbacil	1.93	2.03		ug/L		105	70 - 130
Terbutylazine	1.93	2.04		ug/L		106	70 - 130
Thiobencarb	1.93	2.20		ug/L		114	70 - 130
trans-Nonachlor	1.93	1.91		ug/L		99	70 - 130
Trifluralin	1.93	1.80		ug/L		93	70 - 130

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Nitro-m-xylene	97		70 - 130
Perylene-d12	98		70 - 130
Triphenylphosphate	100		70 - 130

Lab Sample ID: MRL 380-140159/22-A

Matrix: Water

Analysis Batch: 140215

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 140159

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	0.0963	0.0957	J	ug/L		99	50 - 150
2,4'-DDD	0.0963	0.0827	J	ug/L		86	50 - 150
2,4'-DDE	0.0963	0.0885	J	ug/L		92	50 - 150
2,4'-DDT	0.0963	0.0886	J	ug/L		92	50 - 150
2,4-Dinitrotoluene	0.0963	0.0928	J	ug/L		96	50 - 150
2,6-Dinitrotoluene	0.0963	0.0813	J	ug/L		84	50 - 150
2-Methylnaphthalene	0.0963	0.0895	J	ug/L		93	50 - 150
4,4'-DDD	0.0963	0.0891	J	ug/L		93	50 - 150
4,4'-DDE	0.0963	0.0881	J	ug/L		92	50 - 150
4,4'-DDT	0.0963	0.0994		ug/L		103	50 - 150
Acenaphthene	0.0963	0.0799	J	ug/L		83	50 - 150
Acenaphthylene	0.0963	0.0824	J	ug/L		86	50 - 150
Acetochlor	0.0963	0.0979		ug/L		102	50 - 150
Alachlor	0.0481	0.0417	J	ug/L		87	50 - 150
alpha-BHC	0.0963	0.0944	J	ug/L		98	50 - 150
alpha-Chlordane	0.0241	<0.028		ug/L		92	50 - 150
Anthracene	0.0193	0.0195		ug/L		101	50 - 150

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-138874-1
SDG: Weekly

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

Lab Sample ID: MRL 380-140159/22-A

Matrix: Water

Analysis Batch: 140215

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 140159

Analyte	Spike	MRL	MRL	Unit	D	%Rec	%Rec Limits
	Added	Result	Qualifier				
Atrazine	0.0481	0.0463	J	ug/L		96	50 - 150
Benz(a)anthracene	0.0481	0.0467	J	ug/L		97	50 - 150
Benzo[a]pyrene	0.0193	0.0165	J	ug/L		86	50 - 150
Benzo[b]fluoranthene	0.0193	0.0158	J	ug/L		82	50 - 150
Benzo[g,h,i]perylene	0.0481	0.0393	J	ug/L		82	50 - 150
Benzo[k]fluoranthene	0.0193	0.0165	J	ug/L		86	50 - 150
beta-BHC	0.0963	0.0990		ug/L		103	50 - 150
Bis(2-ethylhexyl) phthalate	0.578	0.482	J	ug/L		83	50 - 150
Bromacil	0.0963	0.0913	J	ug/L		95	50 - 150
Butachlor	0.0481	0.0431	J	ug/L		90	50 - 150
Butylbenzylphthalate	0.481	0.449	J	ug/L		93	50 - 150
Chlorobenzilate	0.0963	0.0694	J	ug/L		72	50 - 150
Chloroneb	0.0963	0.101		ug/L		105	50 - 150
Chlorothalonil (Draconil, Bravo)	0.0963	0.0790	J	ug/L		82	50 - 150
Chlorpyrifos	0.0481	0.0438	J	ug/L		91	50 - 150
Chrysene	0.0193	0.0211		ug/L		110	50 - 150
delta-BHC	0.0963	0.0976		ug/L		101	50 - 150
Di(2-ethylhexyl)adipate	0.578	0.526	J	ug/L		91	50 - 150
Dibenz(a,h)anthracene	0.0481	0.0359	J	ug/L		75	50 - 150
Diclorvos (DDVP)	0.0481	0.0516		ug/L		107	50 - 150
Dieldrin	0.00963	0.0112		ug/L		116	50 - 150
Diethylphthalate	0.481	0.462	J	ug/L		96	50 - 150
Dimethylphthalate	0.481	0.474	J	ug/L		98	50 - 150
Di-n-butyl phthalate	0.481	0.534	J	ug/L		111	49 - 243
Di-n-octyl phthalate	0.0963	0.0787	J	ug/L		82	50 - 150
Endosulfan I (Alpha)	0.0963	0.0844	J	ug/L		88	50 - 150
Endosulfan II (Beta)	0.0963	0.0923	J	ug/L		96	50 - 150
Endosulfan sulfate	0.0963	0.0879	J	ug/L		91	50 - 150
Endrin	0.00963	0.00886	J	ug/L		92	50 - 150
Endrin aldehyde	0.0963	0.0923	J	ug/L		96	50 - 150
EPTC	0.0963	0.0859	J	ug/L		89	50 - 150
Fluoranthene	0.0963	0.0893	J	ug/L		93	50 - 150
Fluorene	0.0481	<0.048		ug/L		96	50 - 150
gamma-Chlordane	0.0241	<0.020		ug/L		82	50 - 150
Heptachlor	0.00963	0.0112		ug/L		116	50 - 150
Heptachlor epoxide (isomer B)	0.00963	0.0119		ug/L		124	50 - 150
Hexachlorobenzene	0.0481	0.0417	J	ug/L		87	50 - 150
Hexachlorocyclopentadiene	0.0481	0.0411	J	ug/L		85	50 - 150
Indeno[1,2,3-cd]pyrene	0.0481	0.0380	J	ug/L		79	50 - 150
Isophorone	0.0963	0.105		ug/L		109	50 - 150
Lindane	0.00963	0.00972		ug/L		101	50 - 150
Malathion	0.0963	0.0863	J	ug/L		90	50 - 150
Methoxychlor	0.0481	0.0553		ug/L		115	50 - 150
Metolachlor	0.0481	0.0474	J	ug/L		98	50 - 150
Molinate	0.0963	0.0936	J	ug/L		97	50 - 150
Naphthalene	0.0963	0.0827	J	ug/L		86	50 - 150
Parathion	0.0963	0.0787	J	ug/L		82	50 - 150
Pendimethalin (Penoxaline)	0.0963	0.0809	J	ug/L		84	50 - 150
Phenanthrene	0.0385	0.0315	J	ug/L		82	50 - 150

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-138874-1
SDG: Weekly

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

Lab Sample ID: MRL 380-140159/22-A

Matrix: Water

Analysis Batch: 140215

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 140159

Analyte	Spike	MRL	MRL	Unit	D	%Rec	%Rec Limits
	Added	Result	Qualifier				
Propachlor	0.0481	0.0452	J	ug/L		94	50 - 150
Pyrene	0.0481	0.0445	J	ug/L		92	50 - 150
Simazine	0.0481	0.0440	J	ug/L		91	50 - 150
Terbacil	0.0963	0.0895	J	ug/L		93	50 - 150
Terbutylazine	0.0963	0.0895	J	ug/L		93	50 - 150
Thiobencarb	0.0963	0.0933	J	ug/L		97	50 - 150
trans-Nonachlor	0.0241	<0.025		ug/L		89	50 - 150
Trifluralin	0.0963	0.0876	J	ug/L		91	50 - 150

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

Lab Sample ID: 380-137950-AM-1-A MS

Matrix: Water

Analysis Batch: 140215

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 140159

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier	Added	Result	Qualifier				
1-Methylnaphthalene	<0.099		1.95	1.87		ug/L		96	70 - 130
2,4'-DDD	<0.099		1.95	2.18		ug/L		112	70 - 130
2,4'-DDE	<0.099		1.95	1.98		ug/L		101	70 - 130
2,4'-DDT	<0.099		1.95	2.19		ug/L		112	70 - 130
2,4-Dinitrotoluene	<0.099		1.95	2.20		ug/L		112	70 - 130
2,6-Dinitrotoluene	<0.099		1.95	2.02		ug/L		103	70 - 130
2-Methylnaphthalene	<0.099		1.95	1.88		ug/L		96	70 - 130
4,4'-DDD	<0.099		1.95	2.26		ug/L		115	70 - 130
4,4'-DDE	<0.099		1.95	2.10		ug/L		108	70 - 130
4,4'-DDT	<0.099		1.95	2.09		ug/L		107	70 - 130
Acenaphthene	<0.099		1.95	1.99		ug/L		102	70 - 130
Acenaphthylene	<0.099		1.95	1.97		ug/L		101	70 - 130
Acetochlor	<0.099		1.95	1.98		ug/L		101	70 - 130
Alachlor	<0.050		1.95	1.90		ug/L		97	70 - 130
alpha-BHC	<0.099		1.95	2.08		ug/L		106	70 - 130
alpha-Chlordane	<0.050		1.95	1.94		ug/L		99	70 - 130
Anthracene	<0.020	F1	1.95	1.26	F1	ug/L		65	70 - 130
Atrazine	<0.050		1.95	1.77		ug/L		91	70 - 130
Benz(a)anthracene	<0.050		1.95	1.91		ug/L		98	70 - 130
Benzo[a]pyrene	<0.020		1.95	1.89		ug/L		97	70 - 130
Benzo[b]fluoranthene	<0.020		1.95	2.26		ug/L		116	70 - 130
Benzo[g,h,i]perylene	<0.050		1.95	2.04		ug/L		104	70 - 130
Benzo[k]fluoranthene	<0.020		1.95	2.21		ug/L		113	70 - 130
beta-BHC	<0.099		1.95	2.12		ug/L		109	70 - 130
Bis(2-ethylhexyl) phthalate	<0.59		1.95	2.18		ug/L		111	70 - 130
Bromacil	<0.099		1.95	2.17		ug/L		111	70 - 130
Butachlor	<0.050		1.95	2.16		ug/L		111	70 - 130
Butylbenzylphthalate	<0.50		1.95	2.12		ug/L		109	70 - 130
Chlorobenzilate	<0.099		1.95	2.32		ug/L		119	70 - 130

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-138874-1
SDG: Weekly

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

Lab Sample ID: 380-137950-AM-1-A MS

Client Sample ID: Matrix Spike

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 140215

Prep Batch: 140159

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier	Added	Result	Qualifier				
Chloroneb	<0.099		1.95	1.85		ug/L		95	70 - 130
Chlorothalonil (Draconil, Bravo)	<0.099		1.95	2.39		ug/L		122	70 - 130
Chlorpyrifos	<0.050		1.95	2.14		ug/L		110	70 - 130
Chrysene	<0.020		1.95	2.07		ug/L		106	70 - 130
delta-BHC	<0.099		1.95	2.14		ug/L		110	70 - 130
Di(2-ethylhexyl)adipate	<0.59		1.95	2.05		ug/L		105	70 - 130
Dibenz(a,h)anthracene	<0.050		1.95	2.02		ug/L		103	70 - 130
Diclorvos (DDVP)	<0.050		1.95	2.11		ug/L		108	70 - 130
Dieldrin	<0.0099		1.95	2.10		ug/L		108	70 - 130
Diethylphthalate	<0.50		1.95	2.08		ug/L		106	70 - 130
Dimethylphthalate	<0.50		1.95	2.07		ug/L		106	70 - 130
Di-n-butyl phthalate	<0.99		3.91	4.59		ug/L		112	70 - 130
Di-n-octyl phthalate	<0.099		1.95	1.94		ug/L		99	70 - 130
Endosulfan I (Alpha)	<0.099		1.95	2.07		ug/L		106	70 - 130
Endosulfan II (Beta)	<0.099		1.95	2.11		ug/L		108	70 - 130
Endosulfan sulfate	<0.099		1.95	2.15		ug/L		110	70 - 130
Endrin	<0.0099		1.95	1.78		ug/L		91	70 - 130
Endrin aldehyde	<0.099		1.95	2.04		ug/L		105	60 - 130
EPTC	<0.099		1.95	2.08		ug/L		107	70 - 130
Fluoranthene	<0.099		1.95	2.12		ug/L		109	70 - 130
Fluorene	<0.050		1.95	1.99		ug/L		102	70 - 130
gamma-Chlordane	<0.050		1.95	1.83		ug/L		94	70 - 130
Heptachlor	<0.0099		1.95	2.37		ug/L		121	70 - 130
Heptachlor epoxide (isomer B)	<0.0099		1.95	2.25		ug/L		115	70 - 130
Hexachlorobenzene	<0.050		1.95	1.84		ug/L		94	70 - 130
Hexachlorocyclopentadiene	<0.050		1.95	1.93		ug/L		99	70 - 130
Indeno[1,2,3-cd]pyrene	<0.050		1.95	2.08		ug/L		106	70 - 130
Isophorone	<0.099		1.95	2.12		ug/L		109	70 - 130
Lindane	<0.0099		1.95	2.12		ug/L		108	70 - 130
Malathion	<0.099		1.95	2.10		ug/L		107	70 - 130
Methoxychlor	<0.050		1.95	2.40		ug/L		123	70 - 130
Metolachlor	<0.050		1.95	2.30		ug/L		118	70 - 130
Molinate	<0.099		1.95	2.10		ug/L		107	70 - 130
Naphthalene	<0.099		1.95	2.01		ug/L		103	70 - 130
Parathion	<0.099		1.95	2.33		ug/L		119	70 - 130
Pendimethalin (Penoxaline)	<0.099		1.95	2.24		ug/L		115	70 - 130
Phenanthrene	<0.040		1.95	2.07		ug/L		106	70 - 130
Propachlor	<0.050		1.95	2.19		ug/L		112	70 - 130
Pyrene	<0.050		1.95	2.12		ug/L		109	70 - 130
Simazine	<0.050		1.95	1.76		ug/L		90	70 - 130
Terbacil	<0.099		1.95	1.89		ug/L		97	70 - 130
Terbutylazine	<0.099		1.95	1.81		ug/L		93	70 - 130
Thiobencarb	<0.099		1.95	2.32		ug/L		119	70 - 130
trans-Nonachlor	<0.050		1.95	1.91		ug/L		98	70 - 130
Trifluralin	<0.099		1.95	2.02		ug/L		103	70 - 130

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
2-Nitro-m-xylene	97		70 - 130

QC Sample Results

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

Job ID: 380-138874-1
SDG: Weekly

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

Lab Sample ID: 380-137950-AM-1-A MS

Matrix: Water

Analysis Batch: 140215

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 140159

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
Perylene-d12	95		70 - 130
Triphenylphosphate	102		70 - 130

Lab Sample ID: 380-138081-G-1-A DU

Matrix: Water

Analysis Batch: 140215

Client Sample ID: Duplicate

Prep Type: Total/NA

Prep Batch: 140159

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
1-Methylnaphthalene	<0.098		<0.097		ug/L		NC	20
2,4'-DDD	<0.098		<0.097		ug/L		NC	20
2,4'-DDE	<0.098		<0.097		ug/L		NC	20
2,4'-DDT	<0.098		<0.097		ug/L		NC	20
2,4-Dinitrotoluene	<0.098		<0.097		ug/L		NC	20
2,6-Dinitrotoluene	<0.098		<0.097		ug/L		NC	20
2-Methylnaphthalene	<0.098		<0.097		ug/L		NC	20
4,4'-DDD	<0.098		<0.097		ug/L		NC	20
4,4'-DDE	<0.098		<0.097		ug/L		NC	20
4,4'-DDT	<0.098		<0.097		ug/L		NC	20
Acenaphthene	<0.098		<0.097		ug/L		NC	20
Acenaphthylene	<0.098		<0.097		ug/L		NC	20
Acetochlor	<0.098		<0.097		ug/L		NC	20
Alachlor	<0.049		<0.049		ug/L		NC	20
alpha-BHC	<0.098		<0.097		ug/L		NC	20
alpha-Chlordane	<0.049		<0.049		ug/L		NC	20
Anthracene	<0.020		<0.019		ug/L		NC	20
Atrazine	<0.049		<0.049		ug/L		NC	20
Benz(a)anthracene	<0.049		<0.049		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		<0.049		ug/L		NC	20
Benzo[k]fluoranthene	<0.020		<0.019		ug/L		NC	20
beta-BHC	<0.098		<0.097		ug/L		NC	20
Bis(2-ethylhexyl) phthalate	<0.59		<0.58		ug/L		NC	20
Bromacil	<0.098		<0.097		ug/L		NC	20
Butachlor	<0.049		<0.049		ug/L		NC	20
Butylbenzylphthalate	<0.49		<0.49		ug/L		NC	20
Chlorobenzilate	<0.098		<0.097		ug/L		NC	20
Chloroneb	<0.098		<0.097		ug/L		NC	20
Chlorothalonil (Draconil, Bravo)	<0.098		<0.097		ug/L		NC	20
Chlorpyrifos	<0.049		<0.049		ug/L		NC	20
Chrysene	<0.020		<0.019		ug/L		NC	20
delta-BHC	<0.098		<0.097		ug/L		NC	20
Di(2-ethylhexyl)adipate	<0.59		<0.58		ug/L		NC	20
Dibenz(a,h)anthracene	<0.049		<0.049		ug/L		NC	20
Diclorvos (DDVP)	<0.049		<0.049		ug/L		NC	20
Dieldrin	<0.0098		<0.0097		ug/L		NC	20
Diethylphthalate	<0.49		<0.49		ug/L		NC	20
Dimethylphthalate	<0.49		<0.49		ug/L		NC	20

QC Sample Results

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

Job ID: 380-138874-1
 SDG: Weekly

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

Lab Sample ID: 380-138081-G-1-A DU
Matrix: Water
Analysis Batch: 140215

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 140159

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Di-n-butyl phthalate	<0.98		<0.97		ug/L		NC	20
Di-n-octyl phthalate	<0.098		<0.097		ug/L		NC	20
Endosulfan I (Alpha)	<0.098		<0.097		ug/L		NC	20
Endosulfan II (Beta)	<0.098		<0.097		ug/L		NC	20
Endosulfan sulfate	<0.098		<0.097		ug/L		NC	20
Endrin	<0.0098		<0.0097		ug/L		NC	20
Endrin aldehyde	<0.098		<0.097		ug/L		NC	20
EPTC	<0.098		<0.097		ug/L		NC	20
Fluoranthene	<0.098		<0.097		ug/L		NC	20
Fluorene	<0.049		<0.049		ug/L		NC	20
gamma-Chlordane	<0.049		<0.049		ug/L		NC	20
Heptachlor	<0.0098		<0.0097		ug/L		NC	20
Heptachlor epoxide (isomer B)	<0.0098		<0.0097		ug/L		NC	20
Hexachlorobenzene	<0.049		<0.049		ug/L		NC	20
Hexachlorocyclopentadiene	<0.049		<0.049		ug/L		NC	20
Indeno[1,2,3-cd]pyrene	<0.049		<0.049		ug/L		NC	20
Isophorone	<0.098		<0.097		ug/L		NC	20
Lindane	<0.0098		<0.0097		ug/L		NC	20
Malathion	<0.098		<0.097		ug/L		NC	20
Methoxychlor	<0.049		<0.049		ug/L		NC	20
Metolachlor	<0.049		<0.049		ug/L		NC	20
Molinate	<0.098		<0.097		ug/L		NC	20
Naphthalene	<0.098		<0.097		ug/L		NC	20
Parathion	<0.098		<0.097		ug/L		NC	20
Pendimethalin (Penoxaline)	<0.098		<0.097		ug/L		NC	20
Phenanthrene	<0.039		<0.039		ug/L		NC	20
Propachlor	<0.049		<0.049		ug/L		NC	20
Pyrene	<0.049		<0.049		ug/L		NC	20
Simazine	<0.049		<0.049		ug/L		NC	20
Terbacil	<0.098		<0.097		ug/L		NC	20
Terbutylazine	<0.098		<0.097		ug/L		NC	20
Thiobencarb	<0.098		<0.097		ug/L		NC	20
Total Permethrin (mixed isomers)	<0.20		<0.19		ug/L		NC	20
trans-Nonachlor	<0.049		<0.049		ug/L		NC	20
Trifluralin	<0.098		<0.097		ug/L		NC	20
		DU	DU					
Surrogate	%Recovery	Qualifier	Limits					
2-Nitro-m-xylene	98		70 - 130					
Perylene-d12	91		70 - 130					
Triphenylphosphate	96		70 - 130					

QC Sample Results

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

Job ID: 380-138874-1
SDG: Weekly

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

Lab Sample ID: MB 570-541655/1-A
Matrix: Water
Analysis Batch: 546100

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 541655

<i>Tentatively Identified Compound</i>	<i>Est. Result</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>03/06/25 05:28</i>	<i>03/17/25 22:53</i>	<i>1</i>

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>2,4,6-Tribromophenol (Surr)</i>	<i>106</i>		<i>33 - 139</i>	<i>03/06/25 05:28</i>	<i>03/17/25 22:53</i>	<i>1</i>
<i>2-Fluorobiphenyl (Surr)</i>	<i>88</i>		<i>33 - 126</i>	<i>03/06/25 05:28</i>	<i>03/17/25 22:53</i>	<i>1</i>
<i>2-Fluorophenol (Surr)</i>	<i>47</i>		<i>12 - 120</i>	<i>03/06/25 05:28</i>	<i>03/17/25 22:53</i>	<i>1</i>
<i>Nitrobenzene-d5 (Surr)</i>	<i>93</i>		<i>36 - 120</i>	<i>03/06/25 05:28</i>	<i>03/17/25 22:53</i>	<i>1</i>
<i>Phenol-d6 (Surr)</i>	<i>32</i>		<i>10 - 120</i>	<i>03/06/25 05:28</i>	<i>03/17/25 22:53</i>	<i>1</i>
<i>p-Terphenyl-d14 (Surr)</i>	<i>104</i>		<i>47 - 131</i>	<i>03/06/25 05:28</i>	<i>03/17/25 22:53</i>	<i>1</i>

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

Lab Sample ID: MB 570-541655/1-A
Matrix: Water
Analysis Batch: 542104

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 541655

<i>Analyte</i>	<i>Result</i>	<i>Qualifier</i>	<i>RL</i>	<i>Unit</i>	<i>D</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>1-Methylnaphthalene</i>	<i><0.20</i>		<i>0.20</i>	<i>ug/L</i>		<i>03/06/25 05:28</i>	<i>03/07/25 00:20</i>	<i>1</i>
<i>2-Methylnaphthalene</i>	<i><0.20</i>		<i>0.20</i>	<i>ug/L</i>		<i>03/06/25 05:28</i>	<i>03/07/25 00:20</i>	<i>1</i>
<i>Acenaphthene</i>	<i><0.20</i>		<i>0.20</i>	<i>ug/L</i>		<i>03/06/25 05:28</i>	<i>03/07/25 00:20</i>	<i>1</i>
<i>Acenaphthylene</i>	<i><0.20</i>		<i>0.20</i>	<i>ug/L</i>		<i>03/06/25 05:28</i>	<i>03/07/25 00:20</i>	<i>1</i>
<i>Anthracene</i>	<i><0.20</i>		<i>0.20</i>	<i>ug/L</i>		<i>03/06/25 05:28</i>	<i>03/07/25 00:20</i>	<i>1</i>
<i>Benzo[a]anthracene</i>	<i><0.20</i>		<i>0.20</i>	<i>ug/L</i>		<i>03/06/25 05:28</i>	<i>03/07/25 00:20</i>	<i>1</i>
<i>Benzo[a]pyrene</i>	<i><0.20</i>		<i>0.20</i>	<i>ug/L</i>		<i>03/06/25 05:28</i>	<i>03/07/25 00:20</i>	<i>1</i>
<i>Benzo[b]fluoranthene</i>	<i><0.20</i>		<i>0.20</i>	<i>ug/L</i>		<i>03/06/25 05:28</i>	<i>03/07/25 00:20</i>	<i>1</i>
<i>Benzo[g,h,i]perylene</i>	<i><0.20</i>		<i>0.20</i>	<i>ug/L</i>		<i>03/06/25 05:28</i>	<i>03/07/25 00:20</i>	<i>1</i>
<i>Benzo[k]fluoranthene</i>	<i><0.20</i>		<i>0.20</i>	<i>ug/L</i>		<i>03/06/25 05:28</i>	<i>03/07/25 00:20</i>	<i>1</i>
<i>Chrysene</i>	<i><0.20</i>		<i>0.20</i>	<i>ug/L</i>		<i>03/06/25 05:28</i>	<i>03/07/25 00:20</i>	<i>1</i>
<i>Dibenz(a,h)anthracene</i>	<i><0.20</i>		<i>0.20</i>	<i>ug/L</i>		<i>03/06/25 05:28</i>	<i>03/07/25 00:20</i>	<i>1</i>
<i>Fluoranthene</i>	<i><0.20</i>		<i>0.20</i>	<i>ug/L</i>		<i>03/06/25 05:28</i>	<i>03/07/25 00:20</i>	<i>1</i>
<i>Fluorene</i>	<i><0.20</i>		<i>0.20</i>	<i>ug/L</i>		<i>03/06/25 05:28</i>	<i>03/07/25 00:20</i>	<i>1</i>
<i>Indeno[1,2,3-cd]pyrene</i>	<i><0.20</i>		<i>0.20</i>	<i>ug/L</i>		<i>03/06/25 05:28</i>	<i>03/07/25 00:20</i>	<i>1</i>
<i>Naphthalene</i>	<i><0.20</i>		<i>0.20</i>	<i>ug/L</i>		<i>03/06/25 05:28</i>	<i>03/07/25 00:20</i>	<i>1</i>
<i>Phenanthrene</i>	<i><0.20</i>		<i>0.20</i>	<i>ug/L</i>		<i>03/06/25 05:28</i>	<i>03/07/25 00:20</i>	<i>1</i>
<i>Pyrene</i>	<i><0.20</i>		<i>0.20</i>	<i>ug/L</i>		<i>03/06/25 05:28</i>	<i>03/07/25 00:20</i>	<i>1</i>

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>2,4,6-Tribromophenol (Surr)</i>	<i>74</i>		<i>28 - 127</i>	<i>03/06/25 05:28</i>	<i>03/07/25 00:20</i>	<i>1</i>
<i>2-Fluorobiphenyl (Surr)</i>	<i>73</i>		<i>31 - 120</i>	<i>03/06/25 05:28</i>	<i>03/07/25 00:20</i>	<i>1</i>
<i>2-Fluorophenol (Surr)</i>	<i>42</i>		<i>17 - 120</i>	<i>03/06/25 05:28</i>	<i>03/07/25 00:20</i>	<i>1</i>
<i>Nitrobenzene-d5 (Surr)</i>	<i>75</i>		<i>27 - 120</i>	<i>03/06/25 05:28</i>	<i>03/07/25 00:20</i>	<i>1</i>
<i>Phenol-d6 (Surr)</i>	<i>27</i>		<i>10 - 120</i>	<i>03/06/25 05:28</i>	<i>03/07/25 00:20</i>	<i>1</i>
<i>p-Terphenyl-d14 (Surr)</i>	<i>87</i>		<i>45 - 120</i>	<i>03/06/25 05:28</i>	<i>03/07/25 00:20</i>	<i>1</i>

QC Sample Results

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

Job ID: 380-138874-1
SDG: Weekly

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

Lab Sample ID: LCS 570-541655/2-A

Matrix: Water

Analysis Batch: 542104

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 541655

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
1-Methylnaphthalene	20.0	13.9		ug/L		69	47 - 120	
2-Methylnaphthalene	20.0	15.7		ug/L		79	43 - 120	
Acenaphthene	20.0	15.8		ug/L		79	60 - 132	
Acenaphthylene	20.0	15.2		ug/L		76	54 - 126	
Anthracene	20.0	16.4		ug/L		82	43 - 120	
Benzo[a]anthracene	20.0	16.9		ug/L		85	42 - 133	
Benzo[a]pyrene	20.0	17.3		ug/L		87	32 - 148	
Benzo[b]fluoranthene	20.0	17.4		ug/L		87	42 - 140	
Benzo[g,h,i]perylene	20.0	15.8		ug/L		79	1 - 195	
Benzo[k]fluoranthene	20.0	17.2		ug/L		86	25 - 146	
Chrysene	20.0	16.6		ug/L		83	44 - 140	
Dibenz(a,h)anthracene	20.0	17.6		ug/L		88	1 - 200	
Fluoranthene	20.0	18.0		ug/L		90	43 - 121	
Fluorene	20.0	16.7		ug/L		84	70 - 120	
Indeno[1,2,3-cd]pyrene	20.0	17.1		ug/L		86	1 - 151	
Naphthalene	20.0	12.9		ug/L		64	36 - 120	
Phenanthrene	20.0	16.2		ug/L		81	65 - 120	
Pyrene	20.0	16.2		ug/L		81	70 - 120	

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	74		28 - 127
2-Fluorobiphenyl (Surr)	74		31 - 120
2-Fluorophenol (Surr)	44		17 - 120
Nitrobenzene-d5 (Surr)	64		27 - 120
Phenol-d6 (Surr)	31		10 - 120
p-Terphenyl-d14 (Surr)	84		45 - 120

Lab Sample ID: LCSD 570-541655/3-A

Matrix: Water

Analysis Batch: 542104

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 541655

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits		RPD Limit	
1-Methylnaphthalene	20.0	11.8		ug/L		59	47 - 120	16	20	
2-Methylnaphthalene	20.0	13.5		ug/L		67	43 - 120	16	20	
Acenaphthene	20.0	13.9		ug/L		69	60 - 132	13	29	
Acenaphthylene	20.0	13.4		ug/L		67	54 - 126	13	45	
Anthracene	20.0	15.2		ug/L		76	43 - 120	7	40	
Benzo[a]anthracene	20.0	15.8		ug/L		79	42 - 133	7	32	
Benzo[a]pyrene	20.0	15.5		ug/L		78	32 - 148	11	43	
Benzo[b]fluoranthene	20.0	16.0		ug/L		80	42 - 140	8	43	
Benzo[g,h,i]perylene	20.0	15.0		ug/L		75	1 - 195	5	61	
Benzo[k]fluoranthene	20.0	15.8		ug/L		79	25 - 146	8	38	
Chrysene	20.0	15.1		ug/L		76	44 - 140	9	53	
Dibenz(a,h)anthracene	20.0	16.3		ug/L		81	1 - 200	8	75	
Fluoranthene	20.0	16.6		ug/L		83	43 - 121	8	40	
Fluorene	20.0	15.1		ug/L		75	70 - 120	10	23	
Indeno[1,2,3-cd]pyrene	20.0	15.9		ug/L		80	1 - 151	7	60	
Naphthalene	20.0	10.7		ug/L		53	36 - 120	18	39	

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-138874-1
SDG: Weekly

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

Lab Sample ID: LCSD 570-541655/3-A

Client Sample ID: Lab Control Sample Dup

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 542104

Prep Batch: 541655

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Phenanthrene	20.0	14.8		ug/L		74	65 - 120	9	24
Pyrene	20.0	15.2		ug/L		76	70 - 120	6	30

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	67		28 - 127
2-Fluorobiphenyl (Surr)	63		31 - 120
2-Fluorophenol (Surr)	31		17 - 120
Nitrobenzene-d5 (Surr)	51		27 - 120
Phenol-d6 (Surr)	23		10 - 120
p-Terphenyl-d14 (Surr)	79		45 - 120

Lab Sample ID: 380-138874-1 MS

Client Sample ID: HALAWA WELLS UNITS 1 & 2 (331-206-TP065)

Matrix: Drinking Water

Prep Type: Total/NA

Analysis Batch: 542104

Prep Batch: 541655

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	<0.19		19.7	12.4		ug/L		63	36 - 120
2-Methylnaphthalene	<0.19		19.7	14.0		ug/L		71	32 - 124
Acenaphthene	<0.19		19.7	14.9		ug/L		76	47 - 145
Acenaphthylene	<0.19		19.7	14.3		ug/L		73	33 - 145
Anthracene	<0.19		19.7	16.3		ug/L		83	27 - 133
Benzo[a]anthracene	<0.19		19.7	16.7		ug/L		85	33 - 143
Benzo[a]pyrene	<0.19		19.7	16.8		ug/L		85	17 - 163
Benzo[b]fluoranthene	<0.19		19.7	17.2		ug/L		87	24 - 159
Benzo[g,h,i]perylene	<0.19		19.7	15.2		ug/L		77	1 - 219
Benzo[k]fluoranthene	<0.19		19.7	16.8		ug/L		85	11 - 162
Chrysene	<0.19		19.7	16.1		ug/L		82	17 - 168
Dibenz(a,h)anthracene	<0.19		19.7	16.8		ug/L		85	1 - 227
Fluoranthene	<0.19		19.7	17.6		ug/L		89	26 - 137
Fluorene	<0.19		19.7	16.3		ug/L		83	59 - 121
Indeno[1,2,3-cd]pyrene	<0.19		19.7	16.6		ug/L		85	1 - 171
Naphthalene	<0.19		19.7	10.9		ug/L		56	21 - 133
Phenanthrene	<0.19		19.7	15.4		ug/L		78	54 - 120
Pyrene	<0.19		19.7	15.8		ug/L		80	52 - 120

Surrogate	MS		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	73		28 - 127
2-Fluorobiphenyl (Surr)	69		31 - 120
2-Fluorophenol (Surr)	32		17 - 120
Nitrobenzene-d5 (Surr)	53		27 - 120
Phenol-d6 (Surr)	24		10 - 120
p-Terphenyl-d14 (Surr)	85		45 - 120

QC Sample Results

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

Job ID: 380-138874-1
SDG: Weekly

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

Lab Sample ID: 380-138874-1 MSD

Matrix: Drinking Water

Analysis Batch: 542104

Client Sample ID: HALAWA WELLS UNITS 1 & 2 (331-206-TP065)

Prep Type: Total/NA

Prep Batch: 541655

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		Limit
1-Methylnaphthalene	<0.19		19.6	13.5		ug/L		69	36 - 120	9	30
2-Methylnaphthalene	<0.19		19.6	15.5		ug/L		79	32 - 124	10	30
Acenaphthene	<0.19		19.6	15.8		ug/L		80	47 - 145	6	48
Acenaphthylene	<0.19		19.6	14.9		ug/L		76	33 - 145	4	74
Anthracene	<0.19		19.6	16.3		ug/L		83	27 - 133	0	66
Benzo[a]anthracene	<0.19		19.6	16.5		ug/L		84	33 - 143	1	53
Benzo[a]pyrene	<0.19		19.6	16.5		ug/L		84	17 - 163	2	72
Benzo[b]fluoranthene	<0.19		19.6	16.7		ug/L		85	24 - 159	3	71
Benzo[g,h,i]perylene	<0.19		19.6	15.0		ug/L		76	1 - 219	1	97
Benzo[k]fluoranthene	<0.19		19.6	16.8		ug/L		86	11 - 162	0	63
Chrysene	<0.19		19.6	16.2		ug/L		83	17 - 168	0	87
Dibenz(a,h)anthracene	<0.19		19.6	16.3		ug/L		83	1 - 227	3	126
Fluoranthene	<0.19		19.6	16.9		ug/L		86	26 - 137	4	66
Fluorene	<0.19		19.6	16.2		ug/L		82	59 - 121	1	38
Indeno[1,2,3-cd]pyrene	<0.19		19.6	16.2		ug/L		82	1 - 171	3	99
Naphthalene	<0.19		19.6	13.0		ug/L		66	21 - 133	17	65
Phenanthrene	<0.19		19.6	15.7		ug/L		80	54 - 120	2	39
Pyrene	<0.19		19.6	15.9		ug/L		81	52 - 120	0	49

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	74		28 - 127
2-Fluorobiphenyl (Surr)	75		31 - 120
2-Fluorophenol (Surr)	43		17 - 120
Nitrobenzene-d5 (Surr)	65		27 - 120
Phenol-d6 (Surr)	29		10 - 120
p-Terphenyl-d14 (Surr)	83		45 - 120

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

Lab Sample ID: MB 570-543427/6

Matrix: Water

Analysis Batch: 543427

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
GRO (C6-C10)	<10		10	ug/L			03/11/25 12:17	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	80		38 - 134		03/11/25 12:17	1

Lab Sample ID: LCS 570-543427/7

Matrix: Water

Analysis Batch: 543427

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec
		Result	Qualifier				Limits
Gasoline Range Organics (C4-C13)	400	474		ug/L		118	78 - 120

QC Sample Results

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

Job ID: 380-138874-1
SDG: Weekly

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

Lab Sample ID: LCS 570-543427/7
Matrix: Water
Analysis Batch: 543427

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

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		38 - 134

Lab Sample ID: LCSD 570-543427/5
Matrix: Water
Analysis Batch: 543427

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	466		ug/L		116	78 - 120	2	10

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		38 - 134

Lab Sample ID: MRL 570-543427/3
Matrix: Water
Analysis Batch: 543427

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	12.3		ug/L		123	50 - 150

	MRL	MRL	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	81		38 - 134

Lab Sample ID: 380-138874-1 MS
Matrix: Drinking Water
Analysis Batch: 543427

Client Sample ID: HALAWA WELLS UNITS 1 & 2 (331-206-TP065)
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	436		ug/L		109	68 - 122

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		38 - 134

Lab Sample ID: 380-138874-1 MSD
Matrix: Drinking Water
Analysis Batch: 543427

Client Sample ID: HALAWA WELLS UNITS 1 & 2 (331-206-TP065)
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	483		ug/L		121	68 - 122	10	18

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		38 - 134

QC Sample Results

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

Job ID: 380-138874-1
SDG: Weekly

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

Lab Sample ID: MB 570-542436/1-A
Matrix: Water
Analysis Batch: 545293

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 542436

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Diesel Range Organics (C10-C24)	<25		25	ug/L		03/07/25 16:09	03/15/25 04:55	1
Motor Oil Range Organics [C24-C36]	<25		25	ug/L		03/07/25 16:09	03/15/25 04:55	1
C8-C18	<25		25	ug/L		03/07/25 16:09	03/15/25 04:55	1
Surrogate	MB	MB	Limits			Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier						
n-Octacosane (Surr)	86		60 - 130			03/07/25 16:09	03/15/25 04:55	1

Lab Sample ID: LCS 570-542436/2-A
Matrix: Water
Analysis Batch: 545293

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 542436

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
C10-C28	1600	1390		ug/L		87	56 - 127
Surrogate	LCS	LCS	Limits				
	%Recovery	Qualifier					
n-Octacosane (Surr)	82		60 - 130				

Lab Sample ID: LCSD 570-542436/3-A
Matrix: Water
Analysis Batch: 545293

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 542436

Analyte	Spike Added	LCSD	LCSD	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
		Result	Qualifier						
C10-C28	1600	1430		ug/L		90	56 - 127	3	23
Surrogate	LCSD	LCSD	Limits						
	%Recovery	Qualifier							
n-Octacosane (Surr)	82		60 - 130						

Lab Sample ID: MRL 570-542436/4-A
Matrix: Water
Analysis Batch: 545293

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 542436

Analyte	Spike Added	MRL	MRL	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
C10-C28	0.0200	0.0245	J	mg/L		122	50 - 150
Surrogate	MRL	MRL	Limits				
	%Recovery	Qualifier					
n-Octacosane (Surr)	82		60 - 130				

Lab Sample ID: 380-138874-1 MS
Matrix: Drinking Water
Analysis Batch: 545293

Client Sample ID: HALAWA WELLS UNITS 1 & 2 (331-206-TP065)
Prep Type: Total/NA
Prep Batch: 542436

Analyte	Sample	Sample	Spike Added	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier		Result	Qualifier				
C10-C28	<26		1680	1570		ug/L		93	70 - 130
Surrogate	MS	MS	Limits						
	%Recovery	Qualifier							
n-Octacosane (Surr)	85		60 - 130						

QC Sample Results

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

Job ID: 380-138874-1
 SDG: Weekly

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

Lab Sample ID: 380-138874-1 MSD

Matrix: Drinking Water

Analysis Batch: 545293

Client Sample ID: HALAWA WELLS UNITS 1 & 2 (331-206-TP065)

Prep Type: Total/NA

Prep Batch: 542436

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C10-C28	<26		1680	1580		ug/L		94	70 - 130	1	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
<i>n-Octacosane (Surr)</i>	84		60 - 130								

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QC Association Summary

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

Job ID: 380-138874-1
SDG: Weekly

GC/MS Semi VOA

Prep Batch: 140159

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-138874-1	HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP065)	Total/NA	Drinking Water	525.2	
380-138874-2	AIEA WELLS PUMPS 1&2 (260) P2 (331-203-TP400)	Total/NA	Drinking Water	525.2	
MB 380-140159/21-A	Method Blank	Total/NA	Water	525.2	
LCS 380-140159/23-A	Lab Control Sample	Total/NA	Water	525.2	
MRL 380-140159/22-A	Lab Control Sample	Total/NA	Water	525.2	
380-137950-AM-1-A MS	Matrix Spike	Total/NA	Water	525.2	
380-138081-G-1-A DU	Duplicate	Total/NA	Water	525.2	

Analysis Batch: 140215

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-138874-1	HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP065)	Total/NA	Drinking Water	525.2	140159
380-138874-2	AIEA WELLS PUMPS 1&2 (260) P2 (331-203-TP400)	Total/NA	Drinking Water	525.2	140159
MB 380-140159/21-A	Method Blank	Total/NA	Water	525.2	140159
LCS 380-140159/23-A	Lab Control Sample	Total/NA	Water	525.2	140159
MRL 380-140159/22-A	Lab Control Sample	Total/NA	Water	525.2	140159
380-137950-AM-1-A MS	Matrix Spike	Total/NA	Water	525.2	140159
380-138081-G-1-A DU	Duplicate	Total/NA	Water	525.2	140159

Prep Batch: 541655

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-138874-1	HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP065)	Total/NA	Drinking Water	625.1	
380-138874-2	AIEA WELLS PUMPS 1&2 (260) P2 (331-203-TP400)	Total/NA	Drinking Water	625.1	
MB 570-541655/1-A	Method Blank	Total/NA	Water	625.1	
LCS 570-541655/2-A	Lab Control Sample	Total/NA	Water	625.1	
LCSD 570-541655/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	
380-138874-1 MS	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	Total/NA	Drinking Water	625.1	
380-138874-1 MSD	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	Total/NA	Drinking Water	625.1	

Analysis Batch: 542104

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-138874-1	HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP065)	Total/NA	Drinking Water	625.1 SIM	541655
380-138874-2	AIEA WELLS PUMPS 1&2 (260) P2 (331-203-TP400)	Total/NA	Drinking Water	625.1 SIM	541655
MB 570-541655/1-A	Method Blank	Total/NA	Water	625.1 SIM	541655
LCS 570-541655/2-A	Lab Control Sample	Total/NA	Water	625.1 SIM	541655
LCSD 570-541655/3-A	Lab Control Sample Dup	Total/NA	Water	625.1 SIM	541655
380-138874-1 MS	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	Total/NA	Drinking Water	625.1 SIM	541655
380-138874-1 MSD	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	Total/NA	Drinking Water	625.1 SIM	541655

Analysis Batch: 546100

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-138874-1	HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP065)	Total/NA	Drinking Water	625.1	541655
380-138874-2	AIEA WELLS PUMPS 1&2 (260) P2 (331-203-TP400)	Total/NA	Drinking Water	625.1	541655
MB 570-541655/1-A	Method Blank	Total/NA	Water	625.1	541655

GC VOA

Analysis Batch: 543427

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-138874-1	HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP065)	Total/NA	Drinking Water	8015B GRO LL	
380-138874-2	AIEA WELLS PUMPS 1&2 (260) P2 (331-203-TP400)	Total/NA	Drinking Water	8015B GRO LL	
380-138874-3	TB: HALAWA WELLS UNITS 1&2 (331-206-TP065)	Total/NA	Water	8015B GRO LL	

QC Association Summary

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

Job ID: 380-138874-1
 SDG: Weekly

GC VOA (Continued)

Analysis Batch: 543427 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-138874-4	TB: AIEA WELLS PUMPS 1&2 (260) (331-203-TP400)	Total/NA	Water	8015B GRO LL	
MB 570-543427/6	Method Blank	Total/NA	Water	8015B GRO LL	
LCS 570-543427/7	Lab Control Sample	Total/NA	Water	8015B GRO LL	
LCSD 570-543427/5	Lab Control Sample Dup	Total/NA	Water	8015B GRO LL	
MRL 570-543427/3	Lab Control Sample	Total/NA	Water	8015B GRO LL	
380-138874-1 MS	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	Total/NA	Drinking Water	8015B GRO LL	
380-138874-1 MSD	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	Total/NA	Drinking Water	8015B GRO LL	

GC Semi VOA

Prep Batch: 542436

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-138874-1	HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP065)	Total/NA	Drinking Water	3510C	
380-138874-2	AIEA WELLS PUMPS 1&2 (260) P2 (331-203-TP400)	Total/NA	Drinking Water	3510C	
MB 570-542436/1-A	Method Blank	Total/NA	Water	3510C	
LCS 570-542436/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 570-542436/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MRL 570-542436/4-A	Lab Control Sample	Total/NA	Water	3510C	
380-138874-1 MS	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	Total/NA	Drinking Water	3510C	
380-138874-1 MSD	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	Total/NA	Drinking Water	3510C	

Analysis Batch: 545293

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-138874-1	HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP065)	Total/NA	Drinking Water	8015B	542436
380-138874-2	AIEA WELLS PUMPS 1&2 (260) P2 (331-203-TP400)	Total/NA	Drinking Water	8015B	542436
MB 570-542436/1-A	Method Blank	Total/NA	Water	8015B	542436
LCS 570-542436/2-A	Lab Control Sample	Total/NA	Water	8015B	542436
LCSD 570-542436/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	542436
MRL 570-542436/4-A	Lab Control Sample	Total/NA	Water	8015B	542436
380-138874-1 MS	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	Total/NA	Drinking Water	8015B	542436
380-138874-1 MSD	HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	Total/NA	Drinking Water	8015B	542436

Lab Chronicle

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

Job ID: 380-138874-1
SDG: Weekly

**Client Sample ID: HALAWA WELLS UNITS 1 & 2 P1
(331-206-TP065)**

Lab Sample ID: 380-138874-1

Date Collected: 03/03/25 10:00

Matrix: Drinking Water

Date Received: 03/05/25 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			140159	KRD3	EA POM	03/06/25 07:51
Total/NA	Analysis	525.2		1	140215	UPAC	EA POM	03/06/25 16:07
Total/NA	Prep	625.1			541655	H1SH	EET CAL 4	03/06/25 05:28
Total/NA	Analysis	625.1		1	546100	J7WE	EET CAL 4	03/17/25 23:16
Total/NA	Prep	625.1			541655	H1SH	EET CAL 4	03/06/25 05:28
Total/NA	Analysis	625.1 SIM		1	542104	J7WE	EET CAL 4	03/07/25 03:41
Total/NA	Analysis	8015B GRO LL		1	543427	A9VE	EET CAL 4	03/11/25 16:03
Total/NA	Prep	3510C			542436	TVD6	EET CAL 4	03/07/25 16:10
Total/NA	Analysis	8015B		1	545293	E5RH	EET CAL 4	03/15/25 06:40

**Client Sample ID: AIEA WELLS PUMPS 1&2 (260) P2
(331-203-TP400)**

Lab Sample ID: 380-138874-2

Date Collected: 03/03/25 11:09

Matrix: Drinking Water

Date Received: 03/05/25 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			140159	KRD3	EA POM	03/06/25 07:51
Total/NA	Analysis	525.2		1	140215	UPAC	EA POM	03/06/25 16:28
Total/NA	Prep	625.1			541655	H1SH	EET CAL 4	03/06/25 05:28
Total/NA	Analysis	625.1		1	546100	J7WE	EET CAL 4	03/17/25 23:40
Total/NA	Prep	625.1			541655	H1SH	EET CAL 4	03/06/25 05:28
Total/NA	Analysis	625.1 SIM		1	542104	J7WE	EET CAL 4	03/07/25 04:04
Total/NA	Analysis	8015B GRO LL		1	543427	A9VE	EET CAL 4	03/11/25 16:29
Total/NA	Prep	3510C			542436	TVD6	EET CAL 4	03/07/25 16:10
Total/NA	Analysis	8015B		1	545293	E5RH	EET CAL 4	03/15/25 07:23

**Client Sample ID: TB: HALAWA WELLS UNITS 1&2
(331-206-TP065)**

Lab Sample ID: 380-138874-3

Date Collected: 03/03/25 10:00

Matrix: Water

Date Received: 03/05/25 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015B GRO LL		1	543427	A9VE	EET CAL 4	03/11/25 13:52

**Client Sample ID: TB: AIEA WELLS PUMPS 1&2 (260)
(331-203-TP400)**

Lab Sample ID: 380-138874-4

Date Collected: 03/03/25 11:09

Matrix: Water

Date Received: 03/05/25 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015B GRO LL		1	543427	A9VE	EET CAL 4	03/11/25 14:18

Lab Chronicle

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

Job ID: 380-138874-1
SDG: Weekly

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

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Accreditation/Certification Summary

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

Job ID: 380-138874-1
 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	Drinking Water	1-Methylnaphthalene
525.2	525.2	Drinking Water	2,4'-DDD
525.2	525.2	Drinking Water	2,4'-DDE
525.2	525.2	Drinking Water	2,4'-DDT
525.2	525.2	Drinking Water	2,4-Dinitrotoluene
525.2	525.2	Drinking Water	2,6-Dinitrotoluene
525.2	525.2	Drinking Water	2-Methylnaphthalene
525.2	525.2	Drinking Water	4,4'-DDD
525.2	525.2	Drinking Water	4,4'-DDE
525.2	525.2	Drinking Water	4,4' DDT
525.2	525.2	Drinking Water	Acetochlor
525.2	525.2	Drinking Water	alpha-BHC
525.2	525.2	Drinking Water	alpha-Chlordane
525.2	525.2	Drinking Water	beta-BHC
525.2	525.2	Drinking Water	Chlorobenzilate
525.2	525.2	Drinking Water	Chloroneb
525.2	525.2	Drinking Water	Chlorothalonil (Draconil, Bravo)
525.2	525.2	Drinking Water	Chlorpyrifos
525.2	525.2	Drinking Water	delta-BHC
525.2	525.2	Drinking Water	Diclorvos (DDVP)
525.2	525.2	Drinking Water	Endosulfan I (Alpha)
525.2	525.2	Drinking Water	Endosulfan II (Beta)
525.2	525.2	Drinking Water	Endosulfan sulfate
525.2	525.2	Drinking Water	Endrin aldehyde
525.2	525.2	Drinking Water	EPTC
525.2	525.2	Drinking Water	gamma-Chlordane
525.2	525.2	Drinking Water	Isophorone
525.2	525.2	Drinking Water	Malathion
525.2	525.2	Drinking Water	Parathion
525.2	525.2	Drinking Water	Pendimethalin (Penoxaline)
525.2	525.2	Drinking Water	Terbacil
525.2	525.2	Drinking Water	Terbutylazine
525.2	525.2	Drinking Water	Total Permethrin (mixed isomers)
525.2	525.2	Drinking 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: 380-138874-1
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: 380-138874-1
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: 380-138874-1
 SDG: Weekly

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	PWSID Number
380-138874-1	HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP065)	Drinking Water	03/03/25 10:00	03/05/25 09:20	HI0000331
380-138874-2	AIEA WELLS PUMPS 1&2 (260) P2 (331-203-TP400)	Drinking Water	03/03/25 11:09	03/05/25 09:20	HI0000331
380-138874-3	TB: HALAWA WELLS UNITS 1&2 (331-206-TP065)	Water	03/03/25 10:00	03/05/25 09:20	
380-138874-4	TB: AIEA WELLS PUMPS 1&2 (260) (331-203-TP400)	Water	03/03/25 11:09	03/05/25 09:20	

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Eurofins Eaton Analytical Pomona

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

Chain of Custody Record



Environment Testing

Client Information (Sub Contract Lab)		Sampler: N/A		Lab PM: Arada, Rachele		Carrier Tracking No(s): N/A		COC No: 380-196408.1				
Client Contact: Shipping/Receiving		Phone: N/A		E-Mail: Rachele.Arada@et.eurofins.com		State of Origin: Hawaii		Page: Page 1 of 1				
Company: Eurofins Environment Testing Southwest				Accreditations Required (See note): State - Hawaii				Job #: 380-138874-1				
Address: 2841 Dow Avenue, Suite 100, Tustin, CA, 92780		Due Date Requested: 3/11/2025		Analysis Requested 801BB_DRO_LL_CS0510C_LL_HNL_Ranges: C10-C24/C24-C36/C8-C18 625.1_SIM/625_Prep (MOD) Extended PAH List 801BB_GRO_LLJ5030C (MOD) GRO				Preservation Codes:				
City: Tustin		TAT Requested (days): N/A						Other: N/A				
State, Zip: CA, 92780		PO #: N/A		Field Filtered Sample (Yes or No):		Total Number of Containers		Special Instructions/Note:				
Phone: 714-895-5494(Tel)		WO #: N/A		Perform MSHMSD (Yes or No):								
Email: N/A		Project #: 38001111		801BB_DRO_LL_CS0510C_LL_HNL_Ranges: C10-C24/C24-C36/C8-C18		801BB_GRO_LLJ5030C (MOD) GRO		Special Instructions/Note:				
Project Name: RED-HILL		SSOW#: N/A		625.1_SIM/625_Prep (MOD) Extended PAH List		801BB_GRO_LLJ5030C (MOD) GRO		Special Instructions/Note:				
Site: Honolulu BWS Sites								Special Instructions/Note:				
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MSHMSD (Yes or No)	801BB_DRO_LL_CS0510C_LL_HNL_Ranges: C10-C24/C24-C36/C8-C18	625.1_SIM/625_Prep (MOD) Extended PAH List	801BB_GRO_LLJ5030C (MOD) GRO	Total Number of Containers	Special Instructions/Note:
Note: Since laboratory accreditations are subject to change, Eurofins Eaton Analytical, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Eaton Analytical, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Eaton Analytical, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Eaton Analytical, LLC.												
Possible Hazard Identification						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)						
Unconfirmed						<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months						
Deliverable Requested: I, II, III, IV, Other (specify)				Primary Deliverable Rank: 2		Special Instructions/QC Requirements:						
Empty Kit Relinquished by:			Date:		Time:		Method of Shipment:					
Relinquished by:		Date/Time: 03/05/25 15:00		Company: EENP		Received by:		Date/Time: 3-5-25 1500		Company: WJP		
Relinquished by:		Date/Time: 3-5-25 16:16		Company: WP		Received by:		Date/Time: 3/5/25 1616		Company: EC		
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:		
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 1.7/1.9 SCIF								

FGFS

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Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-138874-1

SDG Number: Weekly

Login Number: 138874

List Source: Eurofins Eaton Analytical Pomona

List Number: 1

Creator: Hernandez, Orlando

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").	N/A	
CIO4 headspace requirement met (>50% for CA, >30% for other states).	N/A	
Samples do not require splitting or compositing.	True	
Container provided by EEA	True	



Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-138874-1

SDG Number: Weekly

Login Number: 138874

List Number: 2

Creator: Khana, Piyush

List Source: Eurofins Calscience

List Creation: 03/05/25 05:59 PM

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	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	1.9
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 <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

