

ANALYTICAL REPORT

PREPARED FOR

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JOB DESCRIPTION

RED-HILL
Weekly
RUSH Weekly Red Hill

JOB NUMBER

380-152929-1

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: 380-152929-1
SDG: Weekly

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
^3+	Reporting Limit Check Standard is outside acceptance limits, high biased
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
F3	Duplicate RPD exceeds the control limit
J	Indicates an Estimated Value for TICs
N	Presumptive evidence of material.
T	Result is a tentatively identified compound (TIC) and an estimated value.

GC VOA

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

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: 380-152929-1

Job ID: 380-152929-1

Eurofins Eaton Analytical Pomona

Job Narrative 380-152929-1

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 5/29/2025 9:54 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 5 coolers at receipt time were 3.1°C, 4.6°C, 5.3°C, 5.7°C and 5.9°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.

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Detection Summary

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

Job ID: 380-152929-1
SDG: Weekly

Client Sample ID: HALAWA WELLS UNITS 1 & 2 P1

Lab Sample ID: 380-152929-1

(331-206-TP065)

PWSID Number: HI0000331

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Dieldrin	0.036		0.0097	ug/L	1		525.2	Total/NA
Heptachlor epoxide (isomer B)	0.012		0.0097	ug/L	1		525.2	Total/NA

Client Sample ID: TB: HALAWA WELLS UNITS 1 & 2

Lab Sample ID: 380-152929-2

(331-206-TP065)

No Detections.

Client Sample ID: AIEA WELLS PUMPS 1&2 P2 (260)

Lab Sample ID: 380-152929-3

(331-203-TP400)

PWSID Number: HI0000331

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Dieldrin	0.011		0.0098	ug/L	1		525.2	Total/NA

Client Sample ID: TB: AIEA WELLS PUMPS 1&2 (260)

Lab Sample ID: 380-152929-4

(331-203-TP400)

No Detections.

Client Sample Results

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

Job ID: 380-152929-1
SDG: Weekly

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

Lab Sample ID: 380-152929-1

Date Collected: 05/27/25 10:49

Matrix: Drinking Water

Date Received: 05/29/25 09:54

PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.097		0.097	ug/L		06/03/25 13:11	06/04/25 15:28	1
2,4'-DDD	<0.097		0.097	ug/L		06/03/25 13:11	06/04/25 15:28	1
2,4'-DDE	<0.097		0.097	ug/L		06/03/25 13:11	06/04/25 15:28	1
2,4'-DDT	<0.097		0.097	ug/L		06/03/25 13:11	06/04/25 15:28	1
2,4-Dinitrotoluene	<0.097		0.097	ug/L		06/03/25 13:11	06/04/25 15:28	1
2,6-Dinitrotoluene	<0.097		0.097	ug/L		06/03/25 13:11	06/04/25 15:28	1
2-Methylnaphthalene	<0.097		0.097	ug/L		06/03/25 13:11	06/04/25 15:28	1
4,4'-DDD	<0.097		0.097	ug/L		06/03/25 13:11	06/04/25 15:28	1
4,4'-DDE	<0.097		0.097	ug/L		06/03/25 13:11	06/04/25 15:28	1
4,4'-DDT	<0.097		0.097	ug/L		06/03/25 13:11	06/04/25 15:28	1
Acenaphthene	<0.097		0.097	ug/L		06/03/25 13:11	06/04/25 15:28	1
Acenaphthylene	<0.097		0.097	ug/L		06/03/25 13:11	06/04/25 15:28	1
Acetochlor	<0.097		0.097	ug/L		06/03/25 13:11	06/04/25 15:28	1
Alachlor	<0.048		0.048	ug/L		06/03/25 13:11	06/04/25 15:28	1
alpha-BHC	<0.097		0.097	ug/L		06/03/25 13:11	06/04/25 15:28	1
alpha-Chlordane	<0.048		0.048	ug/L		06/03/25 13:11	06/04/25 15:28	1
Anthracene	<0.019		0.019	ug/L		06/03/25 13:11	06/04/25 15:28	1
Atrazine	<0.048		0.048	ug/L		06/03/25 13:11	06/04/25 15:28	1
Benz(a)anthracene	<0.048		0.048	ug/L		06/03/25 13:11	06/04/25 15:28	1
Benzo[a]pyrene	<0.019		0.019	ug/L		06/03/25 13:11	06/04/25 15:28	1
Benzo[b]fluoranthene	<0.019		0.019	ug/L		06/03/25 13:11	06/04/25 15:28	1
Benzo[g,h,i]perylene	<0.048		0.048	ug/L		06/03/25 13:11	06/04/25 15:28	1
Benzo[k]fluoranthene	<0.019		0.019	ug/L		06/03/25 13:11	06/04/25 15:28	1
beta-BHC	<0.097		0.097	ug/L		06/03/25 13:11	06/04/25 15:28	1
Bis(2-ethylhexyl) phthalate	<0.58		0.58	ug/L		06/03/25 13:11	06/04/25 15:28	1
Bromacil	<0.097		0.097	ug/L		06/03/25 13:11	06/04/25 15:28	1
Butachlor	<0.048		0.048	ug/L		06/03/25 13:11	06/04/25 15:28	1
Butylbenzylphthalate	<0.48		0.48	ug/L		06/03/25 13:11	06/04/25 15:28	1
Chlorobenzilate	<0.097		0.097	ug/L		06/03/25 13:11	06/04/25 15:28	1
Chloroneb	<0.097		0.097	ug/L		06/03/25 13:11	06/04/25 15:28	1
Chlorothalonil (Draconil, Bravo)	<0.097		0.097	ug/L		06/03/25 13:11	06/04/25 15:28	1
Chlorpyrifos	<0.048		0.048	ug/L		06/03/25 13:11	06/04/25 15:28	1
Chrysene	<0.019		0.019	ug/L		06/03/25 13:11	06/04/25 15:28	1
delta-BHC	<0.097		0.097	ug/L		06/03/25 13:11	06/04/25 15:28	1
Di(2-ethylhexyl)adipate	<0.58		0.58	ug/L		06/03/25 13:11	06/04/25 15:28	1
Dibenz(a,h)anthracene	<0.048		0.048	ug/L		06/03/25 13:11	06/04/25 15:28	1
Diclorvos (DDVP)	<0.048		0.048	ug/L		06/03/25 13:11	06/04/25 15:28	1
Dieldrin	0.036		0.0097	ug/L		06/03/25 13:11	06/04/25 15:28	1
Diethylphthalate	<0.48		0.48	ug/L		06/03/25 13:11	06/04/25 15:28	1
Dimethylphthalate	<0.48		0.48	ug/L		06/03/25 13:11	06/04/25 15:28	1
Di-n-butyl phthalate	<0.97		0.97	ug/L		06/03/25 13:11	06/04/25 15:28	1
Di-n-octyl phthalate	<0.097		0.097	ug/L		06/03/25 13:11	06/04/25 15:28	1
Endosulfan I (Alpha)	<0.097		0.097	ug/L		06/03/25 13:11	06/04/25 15:28	1
Endosulfan II (Beta)	<0.097		0.097	ug/L		06/03/25 13:11	06/04/25 15:28	1
Endosulfan sulfate	<0.097		0.097	ug/L		06/03/25 13:11	06/04/25 15:28	1
Endrin	<0.0097		0.0097	ug/L		06/03/25 13:11	06/04/25 15:28	1
Endrin aldehyde	<0.097		0.097	ug/L		06/03/25 13:11	06/04/25 15:28	1
EPTC	<0.097		0.097	ug/L		06/03/25 13:11	06/04/25 15:28	1

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Client Sample Results

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

Job ID: 380-152929-1
SDG: Weekly

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

Lab Sample ID: 380-152929-1

Date Collected: 05/27/25 10:49

Matrix: Drinking Water

Date Received: 05/29/25 09:54

PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	<0.097		0.097	ug/L		06/03/25 13:11	06/04/25 15:28	1
Fluorene	<0.048		0.048	ug/L		06/03/25 13:11	06/04/25 15:28	1
gamma-Chlordane	<0.048		0.048	ug/L		06/03/25 13:11	06/04/25 15:28	1
Heptachlor	<0.0097		0.0097	ug/L		06/03/25 13:11	06/04/25 15:28	1
Heptachlor epoxide (isomer B)	0.012		0.0097	ug/L		06/03/25 13:11	06/05/25 17:44	1
Hexachlorobenzene	<0.048		0.048	ug/L		06/03/25 13:11	06/04/25 15:28	1
Hexachlorocyclopentadiene	<0.048		0.048	ug/L		06/03/25 13:11	06/04/25 15:28	1
Indeno[1,2,3-cd]pyrene	<0.048		0.048	ug/L		06/03/25 13:11	06/04/25 15:28	1
Isophorone	<0.097		0.097	ug/L		06/03/25 13:11	06/04/25 15:28	1
Lindane	<0.0097		0.0097	ug/L		06/03/25 13:11	06/04/25 15:28	1
Malathion	<0.097		0.097	ug/L		06/03/25 13:11	06/04/25 15:28	1
Methoxychlor	<0.048		0.048	ug/L		06/03/25 13:11	06/04/25 15:28	1
Metolachlor	<0.048		0.048	ug/L		06/03/25 13:11	06/04/25 15:28	1
Molinate	<0.097		0.097	ug/L		06/03/25 13:11	06/04/25 15:28	1
Naphthalene	<0.097		0.097	ug/L		06/03/25 13:11	06/04/25 15:28	1
Parathion	<0.097		0.097	ug/L		06/03/25 13:11	06/04/25 15:28	1
Pendimethalin (Penoxaline)	<0.097		0.097	ug/L		06/03/25 13:11	06/04/25 15:28	1
Phenanthrene	<0.039		0.039	ug/L		06/03/25 13:11	06/04/25 15:28	1
Propachlor	<0.048		0.048	ug/L		06/03/25 13:11	06/04/25 15:28	1
Pyrene	<0.048		0.048	ug/L		06/03/25 13:11	06/04/25 15:28	1
Simazine	<0.048		0.048	ug/L		06/03/25 13:11	06/04/25 15:28	1
Terbacil	<0.097		0.097	ug/L		06/03/25 13:11	06/04/25 15:28	1
Terbutylazine	<0.097		0.097	ug/L		06/03/25 13:11	06/04/25 15:28	1
Thiobencarb	<0.097		0.097	ug/L		06/03/25 13:11	06/04/25 15:28	1
Total Permethrin (mixed isomers)	<0.19		0.19	ug/L		06/03/25 13:11	06/04/25 15:28	1
trans-Nonachlor	<0.048		0.048	ug/L		06/03/25 13:11	06/04/25 15:28	1
Trifluralin	<0.097		0.097	ug/L		06/03/25 13:11	06/04/25 15:28	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	06/03/25 13:11	06/04/25 15:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	91		70 - 130	06/03/25 13:11	06/04/25 15:28	1
2-Nitro-m-xylene	94		70 - 130	06/03/25 13:11	06/05/25 17:44	1
Perylene-d12	92		70 - 130	06/03/25 13:11	06/04/25 15:28	1
Perylene-d12	93		70 - 130	06/03/25 13:11	06/05/25 17:44	1
Triphenylphosphate	109		70 - 130	06/03/25 13:11	06/04/25 15:28	1
Triphenylphosphate	108		70 - 130	06/03/25 13:11	06/05/25 17:44	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.19		0.19	ug/L		06/02/25 15:19	06/11/25 16:50	1
2-Methylnaphthalene	<0.19		0.19	ug/L		06/02/25 15:19	06/11/25 16:50	1
Acenaphthene	<0.19		0.19	ug/L		06/02/25 15:19	06/11/25 16:50	1
Acenaphthylene	<0.19		0.19	ug/L		06/02/25 15:19	06/11/25 16:50	1
Anthracene	<0.19		0.19	ug/L		06/02/25 15:19	06/11/25 16:50	1
Benzo[a]anthracene	<0.19		0.19	ug/L		06/02/25 15:19	06/11/25 16:50	1
Benzo[a]pyrene	<0.19		0.19	ug/L		06/02/25 15:19	06/11/25 16:50	1
Benzo[b]fluoranthene	<0.19		0.19	ug/L		06/02/25 15:19	06/11/25 16:50	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-152929-1
SDG: Weekly

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

Lab Sample ID: 380-152929-1

Date Collected: 05/27/25 10:49

Matrix: Drinking Water

Date Received: 05/29/25 09:54

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
Benzo[g,h,i]perylene	<0.19		0.19	ug/L		06/02/25 15:19	06/11/25 16:50	1
Benzo[k]fluoranthene	<0.19		0.19	ug/L		06/02/25 15:19	06/11/25 16:50	1
Chrysene	<0.19		0.19	ug/L		06/02/25 15:19	06/11/25 16:50	1
Dibenz(a,h)anthracene	<0.19		0.19	ug/L		06/02/25 15:19	06/11/25 16:50	1
Fluoranthene	<0.19		0.19	ug/L		06/02/25 15:19	06/11/25 16:50	1
Fluorene	<0.19		0.19	ug/L		06/02/25 15:19	06/11/25 16:50	1
Indeno[1,2,3-cd]pyrene	<0.19		0.19	ug/L		06/02/25 15:19	06/11/25 16:50	1
Naphthalene	<0.19		0.19	ug/L		06/02/25 15:19	06/11/25 16:50	1
Phenanthrene	<0.19		0.19	ug/L		06/02/25 15:19	06/11/25 16:50	1
Pyrene	<0.19		0.19	ug/L		06/02/25 15:19	06/11/25 16:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	79		28 - 127	06/02/25 15:19	06/11/25 16:50	1
2-Fluorobiphenyl (Surr)	71		31 - 120	06/02/25 15:19	06/11/25 16:50	1
2-Fluorophenol (Surr)	41		17 - 120	06/02/25 15:19	06/11/25 16:50	1
Nitrobenzene-d5 (Surr)	75		27 - 120	06/02/25 15:19	06/11/25 16:50	1
Phenol-d6 (Surr)	27		10 - 120	06/02/25 15:19	06/11/25 16:50	1
p-Terphenyl-d14 (Surr)	87		45 - 120	06/02/25 15:19	06/11/25 16:50	1

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

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	06/02/25 15:19	06/11/25 16:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	61		33 - 139	06/02/25 15:19	06/11/25 16:50	1
2-Fluorobiphenyl (Surr)	75		33 - 126	06/02/25 15:19	06/11/25 16:50	1
2-Fluorophenol (Surr)	39		12 - 120	06/02/25 15:19	06/11/25 16:50	1
Nitrobenzene-d5 (Surr)	71		36 - 120	06/02/25 15:19	06/11/25 16:50	1
Phenol-d6 (Surr)	22		10 - 120	06/02/25 15:19	06/11/25 16:50	1
p-Terphenyl-d14 (Surr)	84		47 - 131	06/02/25 15:19	06/11/25 16:50	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	<10		10	ug/L			06/04/25 18:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		38 - 134		06/04/25 18:48	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)	<25		25	ug/L		06/03/25 14:05	06/07/25 01:03	1
Motor Oil Range Organics [C24-C36]	<25		25	ug/L		06/03/25 14:05	06/07/25 01:03	1
C8-C18	<25		25	ug/L		06/03/25 14:05	06/07/25 01:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	101		60 - 130	06/03/25 14:05	06/07/25 01:03	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-152929-1
SDG: Weekly

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

Lab Sample ID: 380-152929-2

Date Collected: 05/27/25 10:49

Matrix: Drinking Water

Date Received: 05/29/25 09:54

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	<10		10	ug/L			06/04/25 14:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	78		38 - 134				06/04/25 14:05	1

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

Lab Sample ID: 380-152929-3

Date Collected: 05/27/25 11:58

Matrix: Drinking Water

Date Received: 05/29/25 09:54

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		06/03/25 13:11	06/04/25 15:48	1
2,4'-DDD	<0.098		0.098	ug/L		06/03/25 13:11	06/04/25 15:48	1
2,4'-DDE	<0.098		0.098	ug/L		06/03/25 13:11	06/04/25 15:48	1
2,4'-DDT	<0.098		0.098	ug/L		06/03/25 13:11	06/04/25 15:48	1
2,4-Dinitrotoluene	<0.098		0.098	ug/L		06/03/25 13:11	06/04/25 15:48	1
2,6-Dinitrotoluene	<0.098		0.098	ug/L		06/03/25 13:11	06/04/25 15:48	1
2-Methylnaphthalene	<0.098		0.098	ug/L		06/03/25 13:11	06/04/25 15:48	1
4,4'-DDD	<0.098		0.098	ug/L		06/03/25 13:11	06/04/25 15:48	1
4,4'-DDE	<0.098		0.098	ug/L		06/03/25 13:11	06/04/25 15:48	1
4,4'-DDT	<0.098		0.098	ug/L		06/03/25 13:11	06/04/25 15:48	1
Acenaphthene	<0.098		0.098	ug/L		06/03/25 13:11	06/04/25 15:48	1
Acenaphthylene	<0.098		0.098	ug/L		06/03/25 13:11	06/04/25 15:48	1
Acetochlor	<0.098		0.098	ug/L		06/03/25 13:11	06/04/25 15:48	1
Alachlor	<0.049		0.049	ug/L		06/03/25 13:11	06/04/25 15:48	1
alpha-BHC	<0.098		0.098	ug/L		06/03/25 13:11	06/04/25 15:48	1
alpha-Chlordane	<0.049		0.049	ug/L		06/03/25 13:11	06/04/25 15:48	1
Anthracene	<0.020		0.020	ug/L		06/03/25 13:11	06/04/25 15:48	1
Atrazine	<0.049		0.049	ug/L		06/03/25 13:11	06/04/25 15:48	1
Benz(a)anthracene	<0.049		0.049	ug/L		06/03/25 13:11	06/04/25 15:48	1
Benzo[a]pyrene	<0.020		0.020	ug/L		06/03/25 13:11	06/04/25 15:48	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		06/03/25 13:11	06/04/25 15:48	1
Benzo[g,h,i]perylene	<0.049		0.049	ug/L		06/03/25 13:11	06/04/25 15:48	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		06/03/25 13:11	06/04/25 15:48	1
beta-BHC	<0.098		0.098	ug/L		06/03/25 13:11	06/04/25 15:48	1
Bis(2-ethylhexyl) phthalate	<0.59		0.59	ug/L		06/03/25 13:11	06/04/25 15:48	1
Bromacil	<0.098		0.098	ug/L		06/03/25 13:11	06/04/25 15:48	1
Butachlor	<0.049		0.049	ug/L		06/03/25 13:11	06/04/25 15:48	1
Butylbenzylphthalate	<0.49		0.49	ug/L		06/03/25 13:11	06/04/25 15:48	1
Chlorobenzilate	<0.098		0.098	ug/L		06/03/25 13:11	06/04/25 15:48	1
Chloroneb	<0.098		0.098	ug/L		06/03/25 13:11	06/04/25 15:48	1
Chlorothalonil (Draconil, Bravo)	<0.098		0.098	ug/L		06/03/25 13:11	06/04/25 15:48	1
Chlorpyrifos	<0.049		0.049	ug/L		06/03/25 13:11	06/04/25 15:48	1
Chrysene	<0.020		0.020	ug/L		06/03/25 13:11	06/04/25 15:48	1
delta-BHC	<0.098		0.098	ug/L		06/03/25 13:11	06/04/25 15:48	1
Di(2-ethylhexyl)adipate	<0.59		0.59	ug/L		06/03/25 13:11	06/04/25 15:48	1
Dibenz(a,h)anthracene	<0.049		0.049	ug/L		06/03/25 13:11	06/04/25 15:48	1
Diclorvos (DDVP)	<0.049		0.049	ug/L		06/03/25 13:11	06/04/25 15:48	1

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Client Sample Results

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

Job ID: 380-152929-1
SDG: Weekly

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

Lab Sample ID: 380-152929-3

Date Collected: 05/27/25 11:58

Matrix: Drinking Water

Date Received: 05/29/25 09:54

PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dieldrin	0.011		0.0098	ug/L		06/03/25 13:11	06/04/25 15:48	1
Diethylphthalate	<0.49		0.49	ug/L		06/03/25 13:11	06/04/25 15:48	1
Dimethylphthalate	<0.49		0.49	ug/L		06/03/25 13:11	06/04/25 15:48	1
Di-n-butyl phthalate	<0.98		0.98	ug/L		06/03/25 13:11	06/04/25 15:48	1
Di-n-octyl phthalate	<0.098		0.098	ug/L		06/03/25 13:11	06/04/25 15:48	1
Endosulfan I (Alpha)	<0.098		0.098	ug/L		06/03/25 13:11	06/04/25 15:48	1
Endosulfan II (Beta)	<0.098		0.098	ug/L		06/03/25 13:11	06/04/25 15:48	1
Endosulfan sulfate	<0.098		0.098	ug/L		06/03/25 13:11	06/04/25 15:48	1
Endrin	<0.0098		0.0098	ug/L		06/03/25 13:11	06/04/25 15:48	1
Endrin aldehyde	<0.098		0.098	ug/L		06/03/25 13:11	06/04/25 15:48	1
EPTC	<0.098		0.098	ug/L		06/03/25 13:11	06/04/25 15:48	1
Fluoranthene	<0.098		0.098	ug/L		06/03/25 13:11	06/04/25 15:48	1
Fluorene	<0.049		0.049	ug/L		06/03/25 13:11	06/04/25 15:48	1
gamma-Chlordane	<0.049		0.049	ug/L		06/03/25 13:11	06/04/25 15:48	1
Heptachlor	<0.0098		0.0098	ug/L		06/03/25 13:11	06/04/25 15:48	1
Heptachlor epoxide (isomer B)	<0.0098	^3+	0.0098	ug/L		06/03/25 13:11	06/04/25 15:48	1
Hexachlorobenzene	<0.049		0.049	ug/L		06/03/25 13:11	06/04/25 15:48	1
Hexachlorocyclopentadiene	<0.049		0.049	ug/L		06/03/25 13:11	06/04/25 15:48	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049	ug/L		06/03/25 13:11	06/04/25 15:48	1
Isophorone	<0.098		0.098	ug/L		06/03/25 13:11	06/04/25 15:48	1
Lindane	<0.0098		0.0098	ug/L		06/03/25 13:11	06/04/25 15:48	1
Malathion	<0.098		0.098	ug/L		06/03/25 13:11	06/04/25 15:48	1
Methoxychlor	<0.049		0.049	ug/L		06/03/25 13:11	06/04/25 15:48	1
Metolachlor	<0.049		0.049	ug/L		06/03/25 13:11	06/04/25 15:48	1
Molinate	<0.098		0.098	ug/L		06/03/25 13:11	06/04/25 15:48	1
Naphthalene	<0.098		0.098	ug/L		06/03/25 13:11	06/04/25 15:48	1
Parathion	<0.098		0.098	ug/L		06/03/25 13:11	06/04/25 15:48	1
Pendimethalin (Penoxaline)	<0.098		0.098	ug/L		06/03/25 13:11	06/04/25 15:48	1
Phenanthrene	<0.039		0.039	ug/L		06/03/25 13:11	06/04/25 15:48	1
Propachlor	<0.049		0.049	ug/L		06/03/25 13:11	06/04/25 15:48	1
Pyrene	<0.049		0.049	ug/L		06/03/25 13:11	06/04/25 15:48	1
Simazine	<0.049		0.049	ug/L		06/03/25 13:11	06/04/25 15:48	1
Terbacil	<0.098		0.098	ug/L		06/03/25 13:11	06/04/25 15:48	1
Terbutylazine	<0.098		0.098	ug/L		06/03/25 13:11	06/04/25 15:48	1
Thiobencarb	<0.098		0.098	ug/L		06/03/25 13:11	06/04/25 15:48	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		06/03/25 13:11	06/04/25 15:48	1
trans-Nonachlor	<0.049		0.049	ug/L		06/03/25 13:11	06/04/25 15:48	1
Trifluralin	<0.098		0.098	ug/L		06/03/25 13:11	06/04/25 15:48	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	06/03/25 13:11	06/04/25 15:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	92		70 - 130	06/03/25 13:11	06/04/25 15:48	1
Perylene-d12	92		70 - 130	06/03/25 13:11	06/04/25 15:48	1
Triphenylphosphate	106		70 - 130	06/03/25 13:11	06/04/25 15:48	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-152929-1
SDG: Weekly

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

Lab Sample ID: 380-152929-3

Date Collected: 05/27/25 11:58

Matrix: Drinking Water

Date Received: 05/29/25 09:54

PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.19		0.19	ug/L		06/02/25 15:19	06/11/25 17:12	1
2-Methylnaphthalene	<0.19		0.19	ug/L		06/02/25 15:19	06/11/25 17:12	1
Acenaphthene	<0.19		0.19	ug/L		06/02/25 15:19	06/11/25 17:12	1
Acenaphthylene	<0.19		0.19	ug/L		06/02/25 15:19	06/11/25 17:12	1
Anthracene	<0.19		0.19	ug/L		06/02/25 15:19	06/11/25 17:12	1
Benzo[a]anthracene	<0.19		0.19	ug/L		06/02/25 15:19	06/11/25 17:12	1
Benzo[a]pyrene	<0.19		0.19	ug/L		06/02/25 15:19	06/11/25 17:12	1
Benzo[b]fluoranthene	<0.19		0.19	ug/L		06/02/25 15:19	06/11/25 17:12	1
Benzo[g,h,i]perylene	<0.19		0.19	ug/L		06/02/25 15:19	06/11/25 17:12	1
Benzo[k]fluoranthene	<0.19		0.19	ug/L		06/02/25 15:19	06/11/25 17:12	1
Chrysene	<0.19		0.19	ug/L		06/02/25 15:19	06/11/25 17:12	1
Dibenz(a,h)anthracene	<0.19		0.19	ug/L		06/02/25 15:19	06/11/25 17:12	1
Fluoranthene	<0.19		0.19	ug/L		06/02/25 15:19	06/11/25 17:12	1
Fluorene	<0.19		0.19	ug/L		06/02/25 15:19	06/11/25 17:12	1
Indeno[1,2,3-cd]pyrene	<0.19		0.19	ug/L		06/02/25 15:19	06/11/25 17:12	1
Naphthalene	<0.19		0.19	ug/L		06/02/25 15:19	06/11/25 17:12	1
Phenanthrene	<0.19		0.19	ug/L		06/02/25 15:19	06/11/25 17:12	1
Pyrene	<0.19		0.19	ug/L		06/02/25 15:19	06/11/25 17:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	84		28 - 127	06/02/25 15:19	06/11/25 17:12	1
2-Fluorobiphenyl (Surr)	78		31 - 120	06/02/25 15:19	06/11/25 17:12	1
2-Fluorophenol (Surr)	46		17 - 120	06/02/25 15:19	06/11/25 17:12	1
Nitrobenzene-d5 (Surr)	82		27 - 120	06/02/25 15:19	06/11/25 17:12	1
Phenol-d6 (Surr)	29		10 - 120	06/02/25 15:19	06/11/25 17:12	1
p-Terphenyl-d14 (Surr)	86		45 - 120	06/02/25 15:19	06/11/25 17:12	1

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

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	06/02/25 15:19	06/11/25 17:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	71		33 - 139	06/02/25 15:19	06/11/25 17:14	1
2-Fluorobiphenyl (Surr)	82		33 - 126	06/02/25 15:19	06/11/25 17:14	1
2-Fluorophenol (Surr)	43		12 - 120	06/02/25 15:19	06/11/25 17:14	1
Nitrobenzene-d5 (Surr)	79		36 - 120	06/02/25 15:19	06/11/25 17:14	1
Phenol-d6 (Surr)	23		10 - 120	06/02/25 15:19	06/11/25 17:14	1
p-Terphenyl-d14 (Surr)	85		47 - 131	06/02/25 15:19	06/11/25 17:14	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	<10		10	ug/L			06/04/25 19:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		38 - 134		06/04/25 19:13	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	<26		26	ug/L		06/03/25 14:05	06/07/25 01:24	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-152929-1
SDG: Weekly

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

Lab Sample ID: 380-152929-3

Date Collected: 05/27/25 11:58

Matrix: Drinking Water

Date Received: 05/29/25 09:54

PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Motor Oil Range Organics [C24-C36]	<26		26	ug/L		06/03/25 14:05	06/07/25 01:24	1
C8-C18	<26		26	ug/L		06/03/25 14:05	06/07/25 01:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	110		60 - 130			06/03/25 14:05	06/07/25 01:24	1

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

Lab Sample ID: 380-152929-4

Date Collected: 05/27/25 11:58

Matrix: Water

Date Received: 05/29/25 09:54

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	<10		10	ug/L			06/04/25 14:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		38 - 134				06/04/25 14:30	1

Action Limit Summary

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

Job ID: 380-152929-1
SDG: Weekly

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

Lab Sample ID: 380-152929-1

Compliance Check

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

Analyte	Result	Qualifier	Unit	EPAMCL	RL	Method	Prep Type
				Limit			
Alachlor	<0.048		ug/L	2	0.048	525.2	Total/NA
Atrazine	<0.048		ug/L	3	0.048	525.2	Total/NA
Benzo[a]pyrene	<0.019		ug/L	0.2	0.019	525.2	Total/NA
Bis(2-ethylhexyl) phthalate	<0.58		ug/L	6	0.58	525.2	Total/NA
Di(2-ethylhexyl)adipate	<0.58		ug/L	400	0.58	525.2	Total/NA
Endrin	<0.0097		ug/L	2	0.0097	525.2	Total/NA
Heptachlor	<0.0097		ug/L	0.4	0.0097	525.2	Total/NA
Heptachlor epoxide (isomer B)	0.012		ug/L	0.2	0.0097	525.2	Total/NA
Hexachlorobenzene	<0.048		ug/L	1	0.048	525.2	Total/NA
Hexachlorocyclopentadiene	<0.048		ug/L	50	0.048	525.2	Total/NA
Lindane	<0.0097		ug/L	0.2	0.0097	525.2	Total/NA
Methoxychlor	<0.048		ug/L	40	0.048	525.2	Total/NA
Simazine	<0.048		ug/L	4	0.048	525.2	Total/NA
Benzo[a]pyrene	<0.19		ug/L	0.2	0.19	625.1 SIM	Total/NA

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

Lab Sample ID: 380-152929-3

Compliance Check

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

Analyte	Result	Qualifier	Unit	EPAMCL	RL	Method	Prep Type
				Limit			
Alachlor	<0.049		ug/L	2	0.049	525.2	Total/NA
Atrazine	<0.049		ug/L	3	0.049	525.2	Total/NA
Benzo[a]pyrene	<0.020		ug/L	0.2	0.020	525.2	Total/NA
Bis(2-ethylhexyl) phthalate	<0.59		ug/L	6	0.59	525.2	Total/NA
Di(2-ethylhexyl)adipate	<0.59		ug/L	400	0.59	525.2	Total/NA
Endrin	<0.0098		ug/L	2	0.0098	525.2	Total/NA
Heptachlor	<0.0098		ug/L	0.4	0.0098	525.2	Total/NA
Heptachlor epoxide (isomer B)	<0.0098	^3+	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: 380-152929-1
SDG: Weekly

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

Matrix: Drinking Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		2NMX (70-130)	PRY (70-130)	TPP (70-130)
380-152929-1	HALAWA WELLS UNITS 1 & 2 F	91	92	109
380-152929-1	HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP065)	94	93	108
380-152929-3	AIEA WELLS PUMPS 1&2 P2 (260) (331-203-TP400)	92	92	106

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

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		2NMX (70-130)	PRY (70-130)	TPP (70-130)
380-152820-E-1-A MS	Matrix Spike	93	98	112
380-152881-B-4-A DU	Duplicate	94	97	116
LCS 380-155801/23-A	Lab Control Sample	92	99	112
MB 380-155801/21-A	Method Blank	91	91	112
MRL 380-155801/22-A	Lab Control Sample	91	96	111
MRL 380-155801/22-A	Lab Control Sample	94	98	107

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

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (33-139)	FBP (33-126)	2FP (12-120)	NBZ (36-120)	PHL6 (10-120)	TPHd14 (47-131)
380-152929-1	HALAWA WELLS UNITS 1 & 2 F	61	75	39	71	22	84
380-152929-3	AIEA WELLS PUMPS 1&2 P2 (260) (331-203-TP400)	71	82	43	79	23	85

Surrogate Legend

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

FBP = 2-Fluorobiphenyl (Surr)

2FP = 2-Fluorophenol (Surr)

NBZ = Nitrobenzene-d5 (Surr)

PHL6 = Phenol-d6 (Surr)

TPHd14 = p-Terphenyl-d14 (Surr)

Surrogate Summary

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

Job ID: 380-152929-1
SDG: Weekly

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (33-139)	FBP (33-126)	2FP (12-120)	NBZ (36-120)	PHL6 (10-120)	TPHd14 (47-131)
MB 570-578520/1-A	Method Blank	75	77	50	77	27	78

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: 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)
380-152929-1	HALAWA WELLS UNITS 1 & 2 F	79	71	41	75	27	87
380-152929-3	AIEA WELLS PUMPS 1&2 P2 (260) (331-203-TP400)	84	78	46	82	29	86

Surrogate Legend

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

FBP = 2-Fluorobiphenyl (Surr)

2FP = 2-Fluorophenol (Surr)

NBZ = Nitrobenzene-d5 (Surr)

PHL6 = Phenol-d6 (Surr)

TPHd14 = p-Terphenyl-d14 (Surr)

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (28-127)	FBP (31-120)	2FP (17-120)	NBZ (27-120)	PHL6 (10-120)	TPHd14 (45-120)
380-152928-A-1-A MS	Matrix Spike	77	72	47	65	31	81
380-152928-A-1-B MSD	Matrix Spike Duplicate	83	78	49	67	32	86
LCS 570-578520/2-A	Lab Control Sample	81	80	61	72	41	87
LCSD 570-578520/3-A	Lab Control Sample Dup	86	82	60	71	41	90

Surrogate Legend

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

FBP = 2-Fluorobiphenyl (Surr)

2FP = 2-Fluorophenol (Surr)

NBZ = Nitrobenzene-d5 (Surr)

PHL6 = Phenol-d6 (Surr)

TPHd14 = p-Terphenyl-d14 (Surr)

Surrogate Summary

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

Job ID: 380-152929-1
SDG: Weekly

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

Matrix: Drinking Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB1 (38-134)
380-152929-1	HALAWA WELLS UNITS 1 & 2 F	80
380-152929-2	TB: HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	78
380-152929-3	AIEA WELLS PUMPS 1&2 P2 (260) (331-203-TP400)	81

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)
380-152928-C-1 MS	Matrix Spike	89
380-152928-C-1 MSD	Matrix Spike Duplicate	90
380-152929-4	TB: AIEA WELLS PUMPS 1&2 (260) (331-203-TP400)	81
LCS 570-579386/4	Lab Control Sample	77
LCSD 570-579386/5	Lab Control Sample Dup	76
MB 570-579386/6	Method Blank	67
MRL 570-579386/3	Lab Control Sample	72

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)
380-152929-1	HALAWA WELLS UNITS 1 & 2 F	101
380-152929-3	AIEA WELLS PUMPS 1&2 P2 (260) (331-203-TP400)	110

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)
380-152928-B-1-A MS	Matrix Spike	107
380-152928-B-1-B MSD	Matrix Spike Duplicate	109
LCS 570-578970/2-A	Lab Control Sample	94
LCSD 570-578970/3-A	Lab Control Sample Dup	89
MB 570-578970/1-A	Method Blank	103
MRL 570-578970/4-A	Lab Control Sample	102

Surrogate Legend

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Surrogate Summary

Client: City & County of Honolulu
Project/Site: RED-HILL
OTCSN = n-Octacosane (Surr)

Job ID: 380-152929-1
SDG: Weekly

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QC Sample Results

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

Job ID: 380-152929-1
SDG: Weekly

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

Lab Sample ID: MB 380-155801/21-A

Matrix: Water

Analysis Batch: 156005

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 155801

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.098		0.098	ug/L		06/03/25 13:11	06/04/25 12:58	1
2,4'-DDD	<0.098		0.098	ug/L		06/03/25 13:11	06/04/25 12:58	1
2,4'-DDE	<0.098		0.098	ug/L		06/03/25 13:11	06/04/25 12:58	1
2,4'-DDT	<0.098		0.098	ug/L		06/03/25 13:11	06/04/25 12:58	1
2,4-Dinitrotoluene	<0.098		0.098	ug/L		06/03/25 13:11	06/04/25 12:58	1
2,6-Dinitrotoluene	<0.098		0.098	ug/L		06/03/25 13:11	06/04/25 12:58	1
2-Methylnaphthalene	<0.098		0.098	ug/L		06/03/25 13:11	06/04/25 12:58	1
4,4'-DDD	<0.098		0.098	ug/L		06/03/25 13:11	06/04/25 12:58	1
4,4'-DDE	<0.098		0.098	ug/L		06/03/25 13:11	06/04/25 12:58	1
4,4'-DDT	<0.098		0.098	ug/L		06/03/25 13:11	06/04/25 12:58	1
Acenaphthene	<0.098		0.098	ug/L		06/03/25 13:11	06/04/25 12:58	1
Acenaphthylene	<0.098		0.098	ug/L		06/03/25 13:11	06/04/25 12:58	1
Acetochlor	<0.098		0.098	ug/L		06/03/25 13:11	06/04/25 12:58	1
Alachlor	<0.049		0.049	ug/L		06/03/25 13:11	06/04/25 12:58	1
alpha-BHC	<0.098		0.098	ug/L		06/03/25 13:11	06/04/25 12:58	1
alpha-Chlordane	<0.049		0.049	ug/L		06/03/25 13:11	06/04/25 12:58	1
Anthracene	<0.020		0.020	ug/L		06/03/25 13:11	06/04/25 12:58	1
Atrazine	<0.049		0.049	ug/L		06/03/25 13:11	06/04/25 12:58	1
Benz(a)anthracene	<0.049		0.049	ug/L		06/03/25 13:11	06/04/25 12:58	1
Benzo[a]pyrene	<0.020		0.020	ug/L		06/03/25 13:11	06/04/25 12:58	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		06/03/25 13:11	06/04/25 12:58	1
Benzo[g,h,i]perylene	<0.049		0.049	ug/L		06/03/25 13:11	06/04/25 12:58	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		06/03/25 13:11	06/04/25 12:58	1
beta-BHC	<0.098		0.098	ug/L		06/03/25 13:11	06/04/25 12:58	1
Bis(2-ethylhexyl) phthalate	<0.59		0.59	ug/L		06/03/25 13:11	06/04/25 12:58	1
Bromacil	<0.098		0.098	ug/L		06/03/25 13:11	06/04/25 12:58	1
Butachlor	<0.049		0.049	ug/L		06/03/25 13:11	06/04/25 12:58	1
Butylbenzylphthalate	<0.49		0.49	ug/L		06/03/25 13:11	06/04/25 12:58	1
Chlorobenzilate	<0.098		0.098	ug/L		06/03/25 13:11	06/04/25 12:58	1
Chloroneb	<0.098		0.098	ug/L		06/03/25 13:11	06/04/25 12:58	1
Chlorothalonil (Draconil, Bravo)	<0.098		0.098	ug/L		06/03/25 13:11	06/04/25 12:58	1
Chlorpyrifos	<0.049		0.049	ug/L		06/03/25 13:11	06/04/25 12:58	1
Chrysene	<0.020		0.020	ug/L		06/03/25 13:11	06/04/25 12:58	1
delta-BHC	<0.098		0.098	ug/L		06/03/25 13:11	06/04/25 12:58	1
Di(2-ethylhexyl)adipate	<0.59		0.59	ug/L		06/03/25 13:11	06/04/25 12:58	1
Dibenz(a,h)anthracene	<0.049		0.049	ug/L		06/03/25 13:11	06/04/25 12:58	1
Diclorvos (DDVP)	<0.049		0.049	ug/L		06/03/25 13:11	06/04/25 12:58	1
Dieldrin	<0.0098		0.0098	ug/L		06/03/25 13:11	06/04/25 12:58	1
Diethylphthalate	<0.49		0.49	ug/L		06/03/25 13:11	06/04/25 12:58	1
Dimethylphthalate	<0.49		0.49	ug/L		06/03/25 13:11	06/04/25 12:58	1
Di-n-butyl phthalate	<0.98		0.98	ug/L		06/03/25 13:11	06/04/25 12:58	1
Di-n-octyl phthalate	<0.098		0.098	ug/L		06/03/25 13:11	06/04/25 12:58	1
Endosulfan I (Alpha)	<0.098		0.098	ug/L		06/03/25 13:11	06/04/25 12:58	1
Endosulfan II (Beta)	<0.098		0.098	ug/L		06/03/25 13:11	06/04/25 12:58	1
Endosulfan sulfate	<0.098		0.098	ug/L		06/03/25 13:11	06/04/25 12:58	1
Endrin	<0.0098		0.0098	ug/L		06/03/25 13:11	06/04/25 12:58	1
Endrin aldehyde	<0.098		0.098	ug/L		06/03/25 13:11	06/04/25 12:58	1
EPTC	<0.098		0.098	ug/L		06/03/25 13:11	06/04/25 12:58	1

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QC Sample Results

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

Job ID: 380-152929-1
SDG: Weekly

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

Lab Sample ID: MB 380-155801/21-A

Matrix: Water

Analysis Batch: 156005

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 155801

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	<0.098		0.098	ug/L		06/03/25 13:11	06/04/25 12:58	1
Fluorene	<0.049		0.049	ug/L		06/03/25 13:11	06/04/25 12:58	1
gamma-Chlordane	<0.049		0.049	ug/L		06/03/25 13:11	06/04/25 12:58	1
Heptachlor	<0.0098		0.0098	ug/L		06/03/25 13:11	06/04/25 12:58	1
Heptachlor epoxide (isomer B)	<0.0098	^3+	0.0098	ug/L		06/03/25 13:11	06/04/25 12:58	1
Hexachlorobenzene	<0.049		0.049	ug/L		06/03/25 13:11	06/04/25 12:58	1
Hexachlorocyclopentadiene	<0.049		0.049	ug/L		06/03/25 13:11	06/04/25 12:58	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049	ug/L		06/03/25 13:11	06/04/25 12:58	1
Isophorone	<0.098		0.098	ug/L		06/03/25 13:11	06/04/25 12:58	1
Lindane	<0.0098		0.0098	ug/L		06/03/25 13:11	06/04/25 12:58	1
Malathion	<0.098		0.098	ug/L		06/03/25 13:11	06/04/25 12:58	1
Methoxychlor	<0.049		0.049	ug/L		06/03/25 13:11	06/04/25 12:58	1
Metolachlor	<0.049		0.049	ug/L		06/03/25 13:11	06/04/25 12:58	1
Molinate	<0.098		0.098	ug/L		06/03/25 13:11	06/04/25 12:58	1
Naphthalene	<0.098		0.098	ug/L		06/03/25 13:11	06/04/25 12:58	1
Parathion	<0.098		0.098	ug/L		06/03/25 13:11	06/04/25 12:58	1
Pendimethalin (Penoxaline)	<0.098		0.098	ug/L		06/03/25 13:11	06/04/25 12:58	1
Phenanthrene	<0.039		0.039	ug/L		06/03/25 13:11	06/04/25 12:58	1
Propachlor	<0.049		0.049	ug/L		06/03/25 13:11	06/04/25 12:58	1
Pyrene	<0.049		0.049	ug/L		06/03/25 13:11	06/04/25 12:58	1
Simazine	<0.049		0.049	ug/L		06/03/25 13:11	06/04/25 12:58	1
Terbacil	<0.098		0.098	ug/L		06/03/25 13:11	06/04/25 12:58	1
Terbutylazine	<0.098		0.098	ug/L		06/03/25 13:11	06/04/25 12:58	1
Thiobencarb	<0.098		0.098	ug/L		06/03/25 13:11	06/04/25 12:58	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		06/03/25 13:11	06/04/25 12:58	1
trans-Nonachlor	<0.049		0.049	ug/L		06/03/25 13:11	06/04/25 12:58	1
Trifluralin	<0.098		0.098	ug/L		06/03/25 13:11	06/04/25 12:58	1

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Cyclopentene, 1,2,3,3,4-pentamethyl-	0.774	T J N	ug/L		2.51	197390-29-7	06/03/25 13:11	06/04/25 12:58	1
Decane	2.27	T J N	ug/L		2.76	124-18-5	06/03/25 13:11	06/04/25 12:58	1
Unknown	0.674	T J	ug/L		3.85	N/A	06/03/25 13:11	06/04/25 12:58	1
9-Octadecenamide, (Z)-	2.24	T J N	ug/L		7.93	301-02-0	06/03/25 13:11	06/04/25 12:58	1
13-Docosenamide, (Z)-	0.921	T J N	ug/L		10.50	112-84-5	06/03/25 13:11	06/04/25 12:58	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	91		70 - 130	06/03/25 13:11	06/04/25 12:58	1
Perylene-d12	91		70 - 130	06/03/25 13:11	06/04/25 12:58	1
Triphenylphosphate	112		70 - 130	06/03/25 13:11	06/04/25 12:58	1

Lab Sample ID: LCS 380-155801/23-A

Matrix: Water

Analysis Batch: 156005

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 155801

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	1.96	1.95		ug/L		99	70 - 130
2,4'-DDD	1.96	2.02		ug/L		103	70 - 130
2,4'-DDE	1.96	2.14		ug/L		109	70 - 130

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QC Sample Results

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

Job ID: 380-152929-1
SDG: Weekly

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

Lab Sample ID: LCS 380-155801/23-A

Matrix: Water

Analysis Batch: 156005

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 155801

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4'-DDT	1.96	1.88		ug/L		96	70 - 130
2,4-Dinitrotoluene	1.96	1.82		ug/L		93	70 - 130
2,6-Dinitrotoluene	1.96	2.16		ug/L		110	70 - 130
2-Methylnaphthalene	1.96	1.96		ug/L		100	70 - 130
4,4'-DDD	1.96	1.97		ug/L		101	70 - 130
4,4'-DDE	1.96	2.29		ug/L		117	70 - 130
4,4'-DDT	1.96	2.03		ug/L		104	70 - 130
Acenaphthene	1.96	1.93		ug/L		99	70 - 130
Acenaphthylene	1.96	1.97		ug/L		100	70 - 130
Acetochlor	1.96	1.92		ug/L		98	70 - 130
Alachlor	1.96	2.17		ug/L		111	70 - 130
alpha-BHC	1.96	1.99		ug/L		101	70 - 130
alpha-Chlordane	1.96	2.10		ug/L		107	70 - 130
Anthracene	1.96	1.83		ug/L		94	70 - 130
Atrazine	1.96	2.03		ug/L		103	70 - 130
Benz(a)anthracene	1.96	2.06		ug/L		105	70 - 130
Benzo[a]pyrene	1.96	2.08		ug/L		106	70 - 130
Benzo[b]fluoranthene	1.96	2.18		ug/L		111	70 - 130
Benzo[g,h,i]perylene	1.96	2.12		ug/L		108	70 - 130
Benzo[k]fluoranthene	1.96	2.31		ug/L		118	70 - 130
beta-BHC	1.96	1.96		ug/L		100	70 - 130
Bis(2-ethylhexyl) phthalate	1.96	1.93		ug/L		99	70 - 130
Bromacil	1.96	1.97		ug/L		101	70 - 130
Butachlor	1.96	1.96		ug/L		100	70 - 130
Butylbenzylphthalate	1.96	2.06		ug/L		105	70 - 130
Chlorobenzilate	1.96	1.96		ug/L		100	70 - 130
Chloroneb	1.96	1.93		ug/L		99	70 - 130
Chlorothalonil (Draconil, Bravo)	1.96	2.12		ug/L		108	70 - 130
Chlorpyrifos	1.96	2.14		ug/L		109	70 - 130
Chrysene	1.96	2.07		ug/L		106	70 - 130
delta-BHC	1.96	1.97		ug/L		100	70 - 130
Di(2-ethylhexyl)adipate	1.96	2.05		ug/L		105	70 - 130
Dibenz(a,h)anthracene	1.96	2.04		ug/L		104	70 - 130
Diclorvos (DDVP)	1.96	1.95		ug/L		99	70 - 130
Dieldrin	1.96	2.07		ug/L		105	70 - 130
Diethylphthalate	1.96	2.06		ug/L		105	70 - 130
Dimethylphthalate	1.96	2.12		ug/L		108	70 - 130
Di-n-butyl phthalate	3.92	4.02		ug/L		102	70 - 130
Di-n-octyl phthalate	1.96	1.87		ug/L		95	70 - 130
Endosulfan I (Alpha)	1.96	1.89		ug/L		96	70 - 130
Endosulfan II (Beta)	1.96	2.01		ug/L		103	70 - 130
Endosulfan sulfate	1.96	2.11		ug/L		108	70 - 130
Endrin	1.96	2.24		ug/L		114	70 - 130
Endrin aldehyde	1.96	2.21		ug/L		113	60 - 130
EPTC	1.96	2.10		ug/L		107	70 - 130
Fluoranthene	1.96	2.07		ug/L		105	70 - 130
Fluorene	1.96	2.09		ug/L		106	70 - 130
gamma-Chlordane	1.96	2.06		ug/L		105	70 - 130
Heptachlor	1.96	2.26		ug/L		115	70 - 130

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-152929-1
SDG: Weekly

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

Lab Sample ID: LCS 380-155801/23-A

Matrix: Water

Analysis Batch: 156005

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 155801

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Heptachlor epoxide (isomer B)	1.96	2.27		ug/L		116	70 - 130
Hexachlorobenzene	1.96	2.02		ug/L		103	70 - 130
Hexachlorocyclopentadiene	1.96	2.09		ug/L		107	70 - 130
Indeno[1,2,3-cd]pyrene	1.96	2.10		ug/L		107	70 - 130
Isophorone	1.96	1.89		ug/L		97	70 - 130
Lindane	1.96	2.11		ug/L		108	70 - 130
Malathion	1.96	2.03		ug/L		104	70 - 130
Methoxychlor	1.96	1.99		ug/L		101	70 - 130
Metolachlor	1.96	1.90		ug/L		97	70 - 130
Molinate	1.96	2.08		ug/L		106	70 - 130
Naphthalene	1.96	1.88		ug/L		96	70 - 130
Parathion	1.96	1.99		ug/L		102	70 - 130
Pendimethalin (Penoxaline)	1.96	1.95		ug/L		100	70 - 130
Phenanthrene	1.96	1.96		ug/L		100	70 - 130
Propachlor	1.96	2.07		ug/L		106	70 - 130
Pyrene	1.96	1.98		ug/L		101	70 - 130
Simazine	1.96	1.87		ug/L		95	70 - 130
Terbacil	1.96	2.23		ug/L		114	70 - 130
Terbutylazine	1.96	2.04		ug/L		104	70 - 130
Thiobencarb	1.96	1.88		ug/L		96	70 - 130
trans-Nonachlor	1.96	2.17		ug/L		111	70 - 130
Trifluralin	1.96	1.84		ug/L		94	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Nitro-m-xylene	92		70 - 130
Perylene-d12	99		70 - 130
Triphenylphosphate	112		70 - 130

Lab Sample ID: MRL 380-155801/22-A

Matrix: Water

Analysis Batch: 156005

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 155801

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	0.0983	0.113		ug/L		115	50 - 150
2,4'-DDD	0.0983	0.0973	J	ug/L		99	50 - 150
2,4'-DDE	0.0983	0.113		ug/L		115	50 - 150
2,4'-DDT	0.0983	0.122		ug/L		124	50 - 150
2,4-Dinitrotoluene	0.0983	0.112		ug/L		114	50 - 150
2,6-Dinitrotoluene	0.0983	0.131		ug/L		133	50 - 150
2-Methylnaphthalene	0.0983	0.108		ug/L		110	50 - 150
4,4'-DDD	0.0983	0.117		ug/L		119	50 - 150
4,4'-DDE	0.0983	0.115		ug/L		117	50 - 150
4,4'-DDT	0.0983	0.130		ug/L		132	50 - 150
Acenaphthene	0.0983	0.0985		ug/L		100	50 - 150
Acenaphthylene	0.0983	0.0980		ug/L		100	50 - 150
Acetochlor	0.0983	0.120		ug/L		122	50 - 150
Alachlor	0.0492	0.0564		ug/L		115	50 - 150
alpha-BHC	0.0983	0.104		ug/L		106	50 - 150

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-152929-1
SDG: Weekly

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

Lab Sample ID: MRL 380-155801/22-A

Matrix: Water

Analysis Batch: 156005

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 155801

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
alpha-Chlordane	0.0246	0.0367	J	ug/L		149	50 - 150
Anthracene	0.0197	0.0221		ug/L		112	50 - 150
Atrazine	0.0492	0.0671		ug/L		136	50 - 150
Benz(a)anthracene	0.0492	0.0596		ug/L		121	50 - 150
Benzo[a]pyrene	0.0197	0.0191	J	ug/L		97	50 - 150
Benzo[b]fluoranthene	0.0197	0.0244		ug/L		124	50 - 150
Benzo[g,h,i]perylene	0.0492	0.0523		ug/L		106	50 - 150
Benzo[k]fluoranthene	0.0197	0.0240		ug/L		122	50 - 150
beta-BHC	0.0983	0.107		ug/L		109	50 - 150
Bis(2-ethylhexyl) phthalate	0.590	0.556	J	ug/L		94	50 - 150
Bromacil	0.0983	0.121		ug/L		123	50 - 150
Butachlor	0.0492	0.0720		ug/L		146	50 - 150
Butylbenzylphthalate	0.492	0.599		ug/L		122	50 - 150
Chlorobenzilate	0.0983	0.112		ug/L		114	50 - 150
Chloroneb	0.0983	0.106		ug/L		108	50 - 150
Chlorothalonil (Draconil, Bravo)	0.0983	0.112		ug/L		114	50 - 150
Chlorpyrifos	0.0492	0.0572		ug/L		116	50 - 150
Chrysene	0.0197	0.0237		ug/L		121	50 - 150
delta-BHC	0.0983	0.107		ug/L		109	50 - 150
Di(2-ethylhexyl)adipate	0.590	0.643		ug/L		109	50 - 150
Dibenz(a,h)anthracene	0.0492	0.0561		ug/L		114	50 - 150
Diclorvos (DDVP)	0.0492	0.0567		ug/L		115	50 - 150
Dieldrin	0.00983	0.0135		ug/L		137	50 - 150
Diethylphthalate	0.492	0.528		ug/L		107	50 - 150
Dimethylphthalate	0.492	0.535		ug/L		109	50 - 150
Di-n-butyl phthalate	0.492	0.589	J	ug/L		120	49 - 243
Di-n-octyl phthalate	0.0983	0.0900	J	ug/L		92	50 - 150
Endosulfan I (Alpha)	0.0983	0.101		ug/L		102	50 - 150
Endosulfan II (Beta)	0.0983	0.107		ug/L		109	50 - 150
Endosulfan sulfate	0.0983	0.123		ug/L		125	50 - 150
Endrin	0.00983	0.0147		ug/L		149	50 - 150
Endrin aldehyde	0.0983	0.145		ug/L		147	50 - 150
EPTC	0.0983	0.104		ug/L		106	50 - 150
Fluoranthene	0.0983	0.111		ug/L		113	50 - 150
Fluorene	0.0492	0.0547		ug/L		111	50 - 150
gamma-Chlordane	0.0246	0.0358	J	ug/L		146	50 - 150
Heptachlor	0.00983	0.0134		ug/L		136	50 - 150
Heptachlor epoxide (isomer B)	0.00983	0.0150	^3+	ug/L		152	50 - 150
Hexachlorobenzene	0.0492	0.0532		ug/L		108	50 - 150
Hexachlorocyclopentadiene	0.0492	0.0486	J	ug/L		99	50 - 150
Indeno[1,2,3-cd]pyrene	0.0492	0.0600		ug/L		122	50 - 150
Isophorone	0.0983	0.115		ug/L		117	50 - 150
Lindane	0.00983	0.0122		ug/L		124	50 - 150
Malathion	0.0983	0.119		ug/L		121	50 - 150
Methoxychlor	0.0492	0.0735		ug/L		150	50 - 150
Metolachlor	0.0492	0.0611		ug/L		124	50 - 150
Molinate	0.0983	0.106		ug/L		108	50 - 150
Naphthalene	0.0983	0.108		ug/L		110	50 - 150
Parathion	0.0983	0.0998		ug/L		101	50 - 150

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-152929-1
SDG: Weekly

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

Lab Sample ID: MRL 380-155801/22-A

Matrix: Water

Analysis Batch: 156005

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 155801

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Pendimethalin (Penoxaline)	0.0983	0.115		ug/L		117	50 - 150
Phenanthrene	0.0393	0.0473		ug/L		120	50 - 150
Propachlor	0.0492	0.0544		ug/L		111	50 - 150
Pyrene	0.0492	0.0626		ug/L		127	50 - 150
Simazine	0.0492	0.0659		ug/L		134	50 - 150
Terbacil	0.0983	0.119		ug/L		121	50 - 150
Terbutylazine	0.0983	0.111		ug/L		113	50 - 150
Thiobencarb	0.0983	0.108		ug/L		110	50 - 150
trans-Nonachlor	0.0246	0.0352	J	ug/L		143	50 - 150
Trifluralin	0.0983	0.112		ug/L		114	50 - 150

Surrogate	MRL %Recovery	MRL Qualifier	Limits
2-Nitro-m-xylene	91		70 - 130
Perylene-d12	96		70 - 130
Triphenylphosphate	111		70 - 130

Lab Sample ID: MRL 380-155801/22-A

Matrix: Water

Analysis Batch: 156305

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 155801

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Heptachlor epoxide (isomer B)	0.00983	0.0146		ug/L		149	50 - 150

Surrogate	MRL %Recovery	MRL Qualifier	Limits
2-Nitro-m-xylene	94		70 - 130
Perylene-d12	98		70 - 130
Triphenylphosphate	107		70 - 130

Lab Sample ID: 380-152820-E-1-A MS

Matrix: Water

Analysis Batch: 156005

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 155801

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	<0.098		1.98	1.96		ug/L		99	70 - 130
2,4'-DDD	<0.098		1.98	2.02		ug/L		102	70 - 130
2,4'-DDE	<0.098		1.98	2.17		ug/L		109	70 - 130
2,4'-DDT	<0.098		1.98	1.93		ug/L		97	70 - 130
2,4-Dinitrotoluene	<0.098		1.98	1.83		ug/L		92	70 - 130
2,6-Dinitrotoluene	<0.098		1.98	2.17		ug/L		110	70 - 130
2-Methylnaphthalene	<0.098		1.98	2.00		ug/L		101	70 - 130
4,4'-DDD	<0.098		1.98	1.94		ug/L		98	70 - 130
4,4'-DDE	<0.098		1.98	2.27		ug/L		115	70 - 130
4,4'-DDT	<0.098		1.98	2.05		ug/L		103	70 - 130
Acenaphthene	<0.098		1.98	1.99		ug/L		101	70 - 130
Acenaphthylene	<0.098		1.98	2.01		ug/L		101	70 - 130
Acetochlor	<0.098		1.98	1.88		ug/L		95	70 - 130
Alachlor	<0.049		1.98	2.14		ug/L		108	70 - 130
alpha-BHC	<0.098		1.98	1.99		ug/L		100	70 - 130

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-152929-1
SDG: Weekly

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

Lab Sample ID: 380-152820-E-1-A MS

Matrix: Water

Analysis Batch: 156005

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 155801

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
alpha-Chlordane	<0.049		1.98	2.12		ug/L		107	70 - 130
Anthracene	<0.020	F1	1.98	1.26	F1	ug/L		64	70 - 130
Atrazine	<0.049		1.98	2.01		ug/L		102	70 - 130
Benz(a)anthracene	<0.049		1.98	1.95		ug/L		98	70 - 130
Benzo[a]pyrene	<0.020		1.98	1.96		ug/L		99	70 - 130
Benzo[b]fluoranthene	<0.020		1.98	2.36		ug/L		119	70 - 130
Benzo[g,h,i]perylene	<0.049		1.98	2.19		ug/L		110	70 - 130
Benzo[k]fluoranthene	<0.020		1.98	2.27		ug/L		115	70 - 130
beta-BHC	<0.098		1.98	1.92		ug/L		97	70 - 130
Bis(2-ethylhexyl) phthalate	<0.59		1.98	1.97		ug/L		99	70 - 130
Bromacil	<0.098		1.98	1.97		ug/L		99	70 - 130
Butachlor	<0.049		1.98	1.98		ug/L		100	70 - 130
Butylbenzylphthalate	<0.49		1.98	2.08		ug/L		105	70 - 130
Chlorobenzilate	<0.098		1.98	1.97		ug/L		99	70 - 130
Chloroneb	<0.098		1.98	1.94		ug/L		98	70 - 130
Chlorothalonil (Draconil, Bravo)	<0.098		1.98	2.09		ug/L		105	70 - 130
Chlorpyrifos	<0.049		1.98	2.15		ug/L		108	70 - 130
Chrysene	<0.020		1.98	2.10		ug/L		106	70 - 130
delta-BHC	<0.098		1.98	1.97		ug/L		99	70 - 130
Di(2-ethylhexyl)adipate	<0.59		1.98	1.97		ug/L		99	70 - 130
Dibenz(a,h)anthracene	<0.049		1.98	2.11		ug/L		106	70 - 130
Diclorvos (DDVP)	<0.049		1.98	1.93		ug/L		97	70 - 130
Dieldrin	<0.0098		1.98	2.11		ug/L		107	70 - 130
Diethylphthalate	<0.49		1.98	2.05		ug/L		103	70 - 130
Dimethylphthalate	<0.49		1.98	2.12		ug/L		107	70 - 130
Di-n-butyl phthalate	<0.98		3.96	4.39		ug/L		105	70 - 130
Di-n-octyl phthalate	<0.098		1.98	1.88		ug/L		95	70 - 130
Endosulfan I (Alpha)	<0.098		1.98	1.92		ug/L		97	70 - 130
Endosulfan II (Beta)	<0.098		1.98	1.98		ug/L		100	70 - 130
Endosulfan sulfate	<0.098		1.98	2.13		ug/L		108	70 - 130
Endrin	<0.0098		1.98	2.26		ug/L		114	70 - 130
Endrin aldehyde	<0.098		1.98	2.06		ug/L		104	60 - 130
EPTC	<0.098		1.98	2.14		ug/L		108	70 - 130
Fluoranthene	<0.098		1.98	2.08		ug/L		105	70 - 130
Fluorene	<0.049		1.98	2.10		ug/L		106	70 - 130
gamma-Chlordane	<0.049		1.98	2.10		ug/L		106	70 - 130
Heptachlor	<0.0098		1.98	2.28		ug/L		115	70 - 130
Heptachlor epoxide (isomer B)	<0.0098	^3+	1.98	2.32		ug/L		117	70 - 130
Hexachlorobenzene	<0.049		1.98	2.06		ug/L		104	70 - 130
Hexachlorocyclopentadiene	<0.049		1.98	2.05		ug/L		104	70 - 130
Indeno[1,2,3-cd]pyrene	<0.049		1.98	2.20		ug/L		111	70 - 130
Isophorone	<0.098		1.98	1.89		ug/L		96	70 - 130
Lindane	<0.0098		1.98	2.11		ug/L		106	70 - 130
Malathion	<0.098		1.98	1.99		ug/L		100	70 - 130
Methoxychlor	<0.049		1.98	2.10		ug/L		106	70 - 130
Metolachlor	<0.049		1.98	1.88		ug/L		95	70 - 130
Molinate	<0.098		1.98	2.10		ug/L		106	70 - 130
Naphthalene	<0.098		1.98	1.91		ug/L		97	70 - 130
Parathion	<0.098		1.98	2.00		ug/L		101	70 - 130

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-152929-1
SDG: Weekly

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

Lab Sample ID: 380-152820-E-1-A MS

Matrix: Water

Analysis Batch: 156005

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 155801

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Pendimethalin (Penoxaline)	<0.098		1.98	2.06		ug/L		104	70 - 130
Phenanthrene	<0.039		1.98	1.96		ug/L		99	70 - 130
Propachlor	<0.049		1.98	2.09		ug/L		106	70 - 130
Pyrene	<0.049		1.98	1.93		ug/L		97	70 - 130
Simazine	<0.049		1.98	1.82		ug/L		92	70 - 130
Terbacil	<0.098		1.98	2.19		ug/L		110	70 - 130
Terbutylazine	<0.098		1.98	2.03		ug/L		102	70 - 130
Thiobencarb	<0.098		1.98	1.88		ug/L		95	70 - 130
trans-Nonachlor	<0.049		1.98	2.18		ug/L		110	70 - 130
Trifluralin	<0.098		1.98	1.94		ug/L		98	70 - 130
Surrogate	MS %Recovery	MS Qualifier	MS Limits						
2-Nitro-m-xylene	93		70 - 130						
Perylene-d12	98		70 - 130						
Triphenylphosphate	112		70 - 130						

Lab Sample ID: 380-152881-B-4-A DU

Matrix: Water

Analysis Batch: 156005

Client Sample ID: Duplicate

Prep Type: Total/NA

Prep Batch: 155801

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
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

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-152929-1
SDG: Weekly

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

Lab Sample ID: 380-152881-B-4-A DU

Matrix: Water

Analysis Batch: 156005

Client Sample ID: Duplicate

Prep Type: Total/NA

Prep Batch: 155801

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
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	1.7		<0.49		ug/L		NC	20
Dimethylphthalate	<0.49		<0.49		ug/L		NC	20
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	^3+	<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

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-152929-1
SDG: Weekly

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

Lab Sample ID: 380-152881-B-4-A DU
Matrix: Water
Analysis Batch: 156005

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 155801

	DU	DU	
Surrogate	%Recovery	Qualifier	Limits
2-Nitro-m-xylene	94		70 - 130
Perylene-d12	97		70 - 130
Triphenylphosphate	116		70 - 130

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

Lab Sample ID: MB 570-578520/1-A
Matrix: Water
Analysis Batch: 582550

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 578520

	MB	MB							
Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	06/02/25 15:19	06/11/25 15:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	75		33 - 139	06/02/25 15:19	06/11/25 15:37	1
2-Fluorobiphenyl (Surr)	77		33 - 126	06/02/25 15:19	06/11/25 15:37	1
2-Fluorophenol (Surr)	50		12 - 120	06/02/25 15:19	06/11/25 15:37	1
Nitrobenzene-d5 (Surr)	77		36 - 120	06/02/25 15:19	06/11/25 15:37	1
Phenol-d6 (Surr)	27		10 - 120	06/02/25 15:19	06/11/25 15:37	1
p-Terphenyl-d14 (Surr)	78		47 - 131	06/02/25 15:19	06/11/25 15:37	1

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

Lab Sample ID: LCS 570-578520/2-A
Matrix: Water
Analysis Batch: 582536

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 578520

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	20.0	18.0		ug/L		90	47 - 120
2-Methylnaphthalene	20.0	20.2		ug/L		101	43 - 120
Acenaphthene	20.0	21.0		ug/L		105	60 - 132
Acenaphthylene	20.0	19.8		ug/L		99	54 - 126
Anthracene	20.0	21.2		ug/L		106	43 - 120
Benzo[a]anthracene	20.0	22.1		ug/L		110	42 - 133
Benzo[a]pyrene	20.0	21.2		ug/L		106	32 - 148
Benzo[b]fluoranthene	20.0	21.4		ug/L		107	42 - 140
Benzo[g,h,i]perylene	20.0	21.0		ug/L		105	1 - 195
Benzo[k]fluoranthene	20.0	20.2		ug/L		101	25 - 146
Chrysene	20.0	20.9		ug/L		104	44 - 140
Dibenz(a,h)anthracene	20.0	21.0		ug/L		105	1 - 200
Fluoranthene	20.0	21.9		ug/L		110	43 - 121
Fluorene	20.0	20.8		ug/L		104	70 - 120
Indeno[1,2,3-cd]pyrene	20.0	22.0		ug/L		110	1 - 151
Naphthalene	20.0	17.5		ug/L		87	36 - 120
Phenanthrene	20.0	20.9		ug/L		105	65 - 120
Pyrene	20.0	22.4		ug/L		112	70 - 120

QC Sample Results

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

Job ID: 380-152929-1
SDG: Weekly

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

Lab Sample ID: LCS 570-578520/2-A

Matrix: Water

Analysis Batch: 582536

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 578520

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	81		28 - 127
2-Fluorobiphenyl (Surr)	80		31 - 120
2-Fluorophenol (Surr)	61		17 - 120
Nitrobenzene-d5 (Surr)	72		27 - 120
Phenol-d6 (Surr)	41		10 - 120
p-Terphenyl-d14 (Surr)	87		45 - 120

Lab Sample ID: LCSD 570-578520/3-A

Matrix: Water

Analysis Batch: 582536

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 578520

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	20.0	18.2		ug/L		91	47 - 120	1	20
2-Methylnaphthalene	20.0	20.3		ug/L		102	43 - 120	1	20
Acenaphthene	20.0	21.2		ug/L		106	60 - 132	1	29
Acenaphthylene	20.0	20.4		ug/L		102	54 - 126	3	45
Anthracene	20.0	21.8		ug/L		109	43 - 120	3	40
Benzo[a]anthracene	20.0	23.0		ug/L		115	42 - 133	4	32
Benzo[a]pyrene	20.0	22.1		ug/L		111	32 - 148	4	43
Benzo[b]fluoranthene	20.0	21.9		ug/L		109	42 - 140	2	43
Benzo[g,h,i]perylene	20.0	21.5		ug/L		108	1 - 195	3	61
Benzo[k]fluoranthene	20.0	21.5		ug/L		108	25 - 146	7	38
Chrysene	20.0	21.4		ug/L		107	44 - 140	2	53
Dibenz(a,h)anthracene	20.0	21.9		ug/L		109	1 - 200	4	75
Fluoranthene	20.0	22.7		ug/L		114	43 - 121	4	40
Fluorene	20.0	21.0		ug/L		105	70 - 120	1	23
Indeno[1,2,3-cd]pyrene	20.0	22.7		ug/L		114	1 - 151	3	60
Naphthalene	20.0	17.7		ug/L		88	36 - 120	1	39
Phenanthrene	20.0	21.8		ug/L		109	65 - 120	4	24
Pyrene	20.0	23.1		ug/L		115	70 - 120	3	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	86		28 - 127
2-Fluorobiphenyl (Surr)	82		31 - 120
2-Fluorophenol (Surr)	60		17 - 120
Nitrobenzene-d5 (Surr)	71		27 - 120
Phenol-d6 (Surr)	41		10 - 120
p-Terphenyl-d14 (Surr)	90		45 - 120

Lab Sample ID: 380-152928-A-1-A MS

Matrix: Water

Analysis Batch: 582536

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 578520

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	<0.19		19.3	16.6		ug/L		86	36 - 120
2-Methylnaphthalene	<0.19		19.3	18.5		ug/L		96	32 - 124
Acenaphthene	<0.19		19.3	18.3		ug/L		95	47 - 145
Acenaphthylene	<0.19		19.3	17.5		ug/L		91	33 - 145

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-152929-1
SDG: Weekly

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

Lab Sample ID: 380-152928-A-1-A MS

Matrix: Water

Analysis Batch: 582536

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 578520

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Anthracene	<0.19		19.3	19.1		ug/L		99	27 - 133
Benzo[a]anthracene	<0.19		19.3	19.6		ug/L		102	33 - 143
Benzo[a]pyrene	<0.19		19.3	19.0		ug/L		99	17 - 163
Benzo[b]fluoranthene	<0.19		19.3	19.4		ug/L		100	24 - 159
Benzo[g,h,i]perylene	<0.19		19.3	18.4		ug/L		95	1 - 219
Benzo[k]fluoranthene	<0.19		19.3	18.1		ug/L		94	11 - 162
Chrysene	<0.19		19.3	18.6		ug/L		96	17 - 168
Dibenz(a,h)anthracene	<0.19		19.3	18.6		ug/L		97	1 - 227
Fluoranthene	<0.19		19.3	19.1		ug/L		99	26 - 137
Fluorene	<0.19		19.3	18.1		ug/L		94	59 - 121
Indeno[1,2,3-cd]pyrene	<0.19		19.3	19.2		ug/L		100	1 - 171
Naphthalene	<0.19		19.3	15.9		ug/L		82	21 - 133
Phenanthrene	<0.19		19.3	18.9		ug/L		98	54 - 120
Pyrene	<0.19		19.3	20.4		ug/L		106	52 - 120

Surrogate	MS %Recovery	MS Qualifier	MS Limits
2,4,6-Tribromophenol (Surr)	77		28 - 127
2-Fluorobiphenyl (Surr)	72		31 - 120
2-Fluorophenol (Surr)	47		17 - 120
Nitrobenzene-d5 (Surr)	65		27 - 120
Phenol-d6 (Surr)	31		10 - 120
p-Terphenyl-d14 (Surr)	81		45 - 120

Lab Sample ID: 380-152928-A-1-B MSD

Matrix: Water

Analysis Batch: 582536

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 578520

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	<0.19		19.3	17.5		ug/L		90	36 - 120	5	30
2-Methylnaphthalene	<0.19		19.3	19.6		ug/L		101	32 - 124	6	30
Acenaphthene	<0.19		19.3	20.1		ug/L		104	47 - 145	9	48
Acenaphthylene	<0.19		19.3	18.8		ug/L		97	33 - 145	7	74
Anthracene	<0.19		19.3	21.1		ug/L		109	27 - 133	10	66
Benzo[a]anthracene	<0.19		19.3	21.9		ug/L		113	33 - 143	11	53
Benzo[a]pyrene	<0.19		19.3	21.2		ug/L		110	17 - 163	11	72
Benzo[b]fluoranthene	<0.19		19.3	21.2		ug/L		110	24 - 159	9	71
Benzo[g,h,i]perylene	<0.19		19.3	20.0		ug/L		104	1 - 219	9	97
Benzo[k]fluoranthene	<0.19		19.3	20.2		ug/L		104	11 - 162	11	63
Chrysene	<0.19		19.3	20.4		ug/L		106	17 - 168	9	87
Dibenz(a,h)anthracene	<0.19		19.3	20.3		ug/L		105	1 - 227	9	126
Fluoranthene	<0.19		19.3	20.9		ug/L		108	26 - 137	9	66
Fluorene	<0.19		19.3	19.5		ug/L		101	59 - 121	7	38
Indeno[1,2,3-cd]pyrene	<0.19		19.3	21.3		ug/L		110	1 - 171	10	99
Naphthalene	<0.19		19.3	16.4		ug/L		85	21 - 133	3	65
Phenanthrene	<0.19		19.3	20.4		ug/L		106	54 - 120	7	39
Pyrene	<0.19		19.3	22.0		ug/L		114	52 - 120	8	49

QC Sample Results

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

Job ID: 380-152929-1
SDG: Weekly

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

Lab Sample ID: 380-152928-A-1-B MSD

Matrix: Water

Analysis Batch: 582536

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 578520

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
2,4,6-Tribromophenol (Surr)	83		28 - 127
2-Fluorobiphenyl (Surr)	78		31 - 120
2-Fluorophenol (Surr)	49		17 - 120
Nitrobenzene-d5 (Surr)	67		27 - 120
Phenol-d6 (Surr)	32		10 - 120
p-Terphenyl-d14 (Surr)	86		45 - 120

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

Lab Sample ID: MB 570-579386/6

Matrix: Water

Analysis Batch: 579386

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	Result	Qualifier	10	ug/L			06/04/25 12:38	1
	<10							
Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac		
4-Bromofluorobenzene (Surr)	%Recovery	Qualifier	38 - 134		06/04/25 12:38	1		
	67							

Lab Sample ID: LCS 570-579386/4

Matrix: Water

Analysis Batch: 579386

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec	Limits		
Gasoline Range Organics (C4-C13)	Added	Result	Qualifier	ug/L		88		78 - 120		
	400	354								
Surrogate	LCS	LCS	Limits							
4-Bromofluorobenzene (Surr)	%Recovery	Qualifier	38 - 134							
	77									

Lab Sample ID: LCSD 570-579386/5

Matrix: Water

Analysis Batch: 579386

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec	Limits	RPD	RPD
Gasoline Range Organics (C4-C13)	Added	Result	Qualifier	ug/L		85		78 - 120	3	10
	400	342								
Surrogate	LCSD	LCSD	Limits							
4-Bromofluorobenzene (Surr)	%Recovery	Qualifier	38 - 134							
	76									

Lab Sample ID: MRL 570-579386/3

Matrix: Water

Analysis Batch: 579386

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike	MRL	MRL	Unit	D	%Rec	%Rec	Limits		
Gasoline Range Organics (C4-C13)	Added	Result	Qualifier	ug/L		95		50 - 150		
	10.0	9.48	J							

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QC Sample Results

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

Job ID: 380-152929-1
SDG: Weekly

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

Lab Sample ID: MRL 570-579386/3

Matrix: Water

Analysis Batch: 579386

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

	MRL	MRL	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	72		38 - 134

Lab Sample ID: 380-152928-C-1 MS

Matrix: Water

Analysis Batch: 579386

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (C4-C13)	<10		400	421		ug/L		105	68 - 122
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	89		38 - 134						

Lab Sample ID: 380-152928-C-1 MSD

Matrix: Water

Analysis Batch: 579386

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (C4-C13)	<10		400	397		ug/L	-	99	68 - 122	6	18
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	90		38 - 134								

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

Lab Sample ID: MB 570-578970/1-A

Matrix: Water

Analysis Batch: 580766

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 578970

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Diesel Range Organics (C10-C24)	<25		25	ug/L		06/03/25 14:03	06/06/25 22:34	1
Motor Oil Range Organics [C24-C36]	<25		25	ug/L		06/03/25 14:03	06/06/25 22:34	1
C8-C18	<25		25	ug/L		06/03/25 14:03	06/06/25 22:34	1
Surrogate	MB	MB	Limits			Prepared	Analyzed	Dil Fac
%Recovery	Qualifier							
n-Octacosane (Surr)	103		60 - 130			06/03/25 14:03	06/06/25 22:34	1

Lab Sample ID: LCS 570-578970/2-A

Matrix: Water

Analysis Batch: 580766

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 578970

			Spike	LCS	LCS				%Rec		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
C10-C28			1600	1310		ug/L		82	56 - 127		
Surrogate	LCS		Limits								
	%Recovery	Qualifier									
n-Octacosane (Surr)	94		60 - 130								

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-152929-1
SDG: Weekly

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

Lab Sample ID: LCSD 570-578970/3-A

Matrix: Water

Analysis Batch: 580766

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 578970

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C10-C28			1600	1260		ug/L		79	56 - 127	4	23
Surrogate	%Recovery	LCSD Qualifier	Limits								
n-Octacosane (Surr)	89		60 - 130								

Lab Sample ID: MRL 570-578970/4-A

Matrix: Water

Analysis Batch: 580766

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 578970

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
C10-C28			0.0200	0.0210	J	mg/L		105	50 - 150		
Surrogate	%Recovery	MRL Qualifier	Limits								
n-Octacosane (Surr)	102		60 - 130								

Lab Sample ID: 380-152928-B-1-A MS

Matrix: Water

Analysis Batch: 580766

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 578970

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
C10-C28	<25		1640	1530		ug/L		93	70 - 130		
Surrogate	%Recovery	MS Qualifier	Limits								
n-Octacosane (Surr)	107		60 - 130								

Lab Sample ID: 380-152928-B-1-B MSD

Matrix: Water

Analysis Batch: 580766

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 578970

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C10-C28	<25		1650	1550		ug/L		94	70 - 130	2	20
Surrogate	%Recovery	MSD Qualifier	Limits								
n-Octacosane (Surr)	109		60 - 130								

QC Association Summary

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

Job ID: 380-152929-1
SDG: Weekly

GC/MS Semi VOA

Prep Batch: 155801

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-152929-1	HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP01	Total/NA	Drinking Water	525.2	
380-152929-3	AIEA WELLS PUMPS 1&2 P2 (260) (331-203-TP	Total/NA	Drinking Water	525.2	
MB 380-155801/21-A	Method Blank	Total/NA	Water	525.2	
LCS 380-155801/23-A	Lab Control Sample	Total/NA	Water	525.2	
MRL 380-155801/22-A	Lab Control Sample	Total/NA	Water	525.2	
380-152820-E-1-A MS	Matrix Spike	Total/NA	Water	525.2	
380-152881-B-4-A DU	Duplicate	Total/NA	Water	525.2	

Analysis Batch: 156005

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-152929-1	HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP01	Total/NA	Drinking Water	525.2	155801
380-152929-3	AIEA WELLS PUMPS 1&2 P2 (260) (331-203-TP	Total/NA	Drinking Water	525.2	155801
MB 380-155801/21-A	Method Blank	Total/NA	Water	525.2	155801
LCS 380-155801/23-A	Lab Control Sample	Total/NA	Water	525.2	155801
MRL 380-155801/22-A	Lab Control Sample	Total/NA	Water	525.2	155801
380-152820-E-1-A MS	Matrix Spike	Total/NA	Water	525.2	155801
380-152881-B-4-A DU	Duplicate	Total/NA	Water	525.2	155801

Analysis Batch: 156305

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-152929-1	HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP01	Total/NA	Drinking Water	525.2	155801
MRL 380-155801/22-A	Lab Control Sample	Total/NA	Water	525.2	155801

Prep Batch: 578520

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-152929-1	HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP01	Total/NA	Drinking Water	625.1	
380-152929-3	AIEA WELLS PUMPS 1&2 P2 (260) (331-203-TP	Total/NA	Drinking Water	625.1	
MB 570-578520/1-A	Method Blank	Total/NA	Water	625.1	
LCS 570-578520/2-A	Lab Control Sample	Total/NA	Water	625.1	
LCSD 570-578520/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	
380-152928-A-1-A MS	Matrix Spike	Total/NA	Water	625.1	
380-152928-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	625.1	

Analysis Batch: 582536

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-152929-1	HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP01	Total/NA	Drinking Water	625.1 SIM	578520
380-152929-3	AIEA WELLS PUMPS 1&2 P2 (260) (331-203-TP	Total/NA	Drinking Water	625.1 SIM	578520
LCS 570-578520/2-A	Lab Control Sample	Total/NA	Water	625.1 SIM	578520
LCSD 570-578520/3-A	Lab Control Sample Dup	Total/NA	Water	625.1 SIM	578520
380-152928-A-1-A MS	Matrix Spike	Total/NA	Water	625.1 SIM	578520
380-152928-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	625.1 SIM	578520

Analysis Batch: 582550

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-152929-1	HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP01	Total/NA	Drinking Water	625.1	578520
380-152929-3	AIEA WELLS PUMPS 1&2 P2 (260) (331-203-TP	Total/NA	Drinking Water	625.1	578520
MB 570-578520/1-A	Method Blank	Total/NA	Water	625.1	578520

QC Association Summary

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

Job ID: 380-152929-1
SDG: Weekly

GC VOA

Analysis Batch: 579386

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-152929-1	HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP01	Total/NA	Drinking Water	8015B GRO LL	
380-152929-2	TB: HALAWA WELLS UNITS 1 & 2 (331-206-TPC	Total/NA	Drinking Water	8015B GRO LL	
380-152929-3	AIEA WELLS PUMPS 1&2 P2 (260) (331-203-TP	Total/NA	Drinking Water	8015B GRO LL	
380-152929-4	TB: AIEA WELLS PUMPS 1&2 (260) (331-203-TF	Total/NA	Water	8015B GRO LL	
MB 570-579386/6	Method Blank	Total/NA	Water	8015B GRO LL	
LCS 570-579386/4	Lab Control Sample	Total/NA	Water	8015B GRO LL	
LCSD 570-579386/5	Lab Control Sample Dup	Total/NA	Water	8015B GRO LL	
MRL 570-579386/3	Lab Control Sample	Total/NA	Water	8015B GRO LL	
380-152928-C-1 MS	Matrix Spike	Total/NA	Water	8015B GRO LL	
380-152928-C-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8015B GRO LL	

GC Semi VOA

Prep Batch: 578970

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-152929-1	HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP01	Total/NA	Drinking Water	3510C	
380-152929-3	AIEA WELLS PUMPS 1&2 P2 (260) (331-203-TP	Total/NA	Drinking Water	3510C	
MB 570-578970/1-A	Method Blank	Total/NA	Water	3510C	
LCS 570-578970/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 570-578970/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MRL 570-578970/4-A	Lab Control Sample	Total/NA	Water	3510C	
380-152928-B-1-A MS	Matrix Spike	Total/NA	Water	3510C	
380-152928-B-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	3510C	

Analysis Batch: 580766

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-152929-1	HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP01	Total/NA	Drinking Water	8015B	578970
380-152929-3	AIEA WELLS PUMPS 1&2 P2 (260) (331-203-TP	Total/NA	Drinking Water	8015B	578970
MB 570-578970/1-A	Method Blank	Total/NA	Water	8015B	578970
LCS 570-578970/2-A	Lab Control Sample	Total/NA	Water	8015B	578970
LCSD 570-578970/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	578970
MRL 570-578970/4-A	Lab Control Sample	Total/NA	Water	8015B	578970
380-152928-B-1-A MS	Matrix Spike	Total/NA	Water	8015B	578970
380-152928-B-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	8015B	578970

Lab Chronicle

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

Job ID: 380-152929-1
SDG: Weekly

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

Lab Sample ID: 380-152929-1

Date Collected: 05/27/25 10:49

Matrix: Drinking Water

Date Received: 05/29/25 09:54

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			155801	IQ42	EA POM	06/03/25 13:11
Total/NA	Analysis	525.2		1	156305	UPAC	EA POM	06/05/25 17:44
Total/NA	Prep	525.2			155801	IQ42	EA POM	06/03/25 13:11
Total/NA	Analysis	525.2		1	156005	Q8LA	EA POM	06/04/25 15:28
Total/NA	Prep	625.1			578520	TR8L	EET CAL 4	06/02/25 15:19
Total/NA	Analysis	625.1		1	582550	J7WE	EET CAL 4	06/11/25 16:50
Total/NA	Prep	625.1			578520	TR8L	EET CAL 4	06/02/25 15:19
Total/NA	Analysis	625.1 SIM		1	582536	PQS1	EET CAL 4	06/11/25 16:50
Total/NA	Analysis	8015B GRO LL		1	579386	A9VE	EET CAL 4	06/04/25 18:48
Total/NA	Prep	3510C			578970	TVD6	EET CAL 4	06/03/25 14:05
Total/NA	Analysis	8015B		1	580766	E5RH	EET CAL 4	06/07/25 01:03

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

Lab Sample ID: 380-152929-2

Date Collected: 05/27/25 10:49

Matrix: Drinking Water

Date Received: 05/29/25 09:54

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015B GRO LL		1	579386	A9VE	EET CAL 4	06/04/25 14:05

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

Lab Sample ID: 380-152929-3

Date Collected: 05/27/25 11:58

Matrix: Drinking Water

Date Received: 05/29/25 09:54

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			155801	IQ42	EA POM	06/03/25 13:11
Total/NA	Analysis	525.2		1	156005	Q8LA	EA POM	06/04/25 15:48
Total/NA	Prep	625.1			578520	TR8L	EET CAL 4	06/02/25 15:19
Total/NA	Analysis	625.1		1	582550	J7WE	EET CAL 4	06/11/25 17:14
Total/NA	Prep	625.1			578520	TR8L	EET CAL 4	06/02/25 15:19
Total/NA	Analysis	625.1 SIM		1	582536	PQS1	EET CAL 4	06/11/25 17:12
Total/NA	Analysis	8015B GRO LL		1	579386	A9VE	EET CAL 4	06/04/25 19:13
Total/NA	Prep	3510C			578970	TVD6	EET CAL 4	06/03/25 14:05
Total/NA	Analysis	8015B		1	580766	E5RH	EET CAL 4	06/07/25 01:24

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

Lab Sample ID: 380-152929-4

Date Collected: 05/27/25 11:58

Matrix: Water

Date Received: 05/29/25 09:54

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015B GRO LL		1	579386	A9VE	EET CAL 4	06/04/25 14:30

Eurofins Eaton Analytical Pomona

Lab Chronicle

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

Job ID: 380-152929-1
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: 380-152929-1
SDG: Weekly

Laboratory: Eurofins Eaton Analytical Pomona

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

Authority	Program	Identification Number	Expiration Date
Hawaii	State	CA00006	01-31-26
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
525.2	525.2	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

Eurofins Eaton Analytical Pomona

Accreditation/Certification Summary

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

Job ID: 380-152929-1
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	CA00111	02-28-26
Washington	State	C916	10-11-25

Method Summary

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

Job ID: 380-152929-1
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: 380-152929-1
SDG: Weekly

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	PWSID Number
380-152929-1	HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP065)	Drinking Water	05/27/25 10:49	05/29/25 09:54	HI0000331
380-152929-2	TB: HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	Drinking Water	05/27/25 10:49	05/29/25 09:54	
380-152929-3	AIEA WELLS PUMPS 1&2 P2 (260) (331-203-TP400)	Drinking Water	05/27/25 11:58	05/29/25 09:54	HI0000331
380-152929-4	TB: AIEA WELLS PUMPS 1&2 (260) (331-203-TP400)	Water	05/27/25 11:58	05/29/25 09:54	

Chain of Custody Record



Client Information		Lab PM: Arada, Rachelle		COC No: 380-28005-2757 1	
Client Contact: Kirk Iwamoto		Phone: +1 808 748 5840		Page: 1 of 1	
City & County of Honolulu		PWSID:		Job #:	
Address: 630 South Beretania Street Chemistry Lab		Due Date Requested:		Carrier Tracking No(s):	
City: Honolulu		TAT Requested (days):		State of Origin:	
State, Zip: HI, 96843		Compliance Project: ☐ Yes ☒ No		Analysis Requested	
Phone: 808-748-5840 (Tel)		PO #: C20525101 exp 05312023		Preservation Codes: R - NaThioSO4 QA - Na2SO3 QA - Na2SO3/HCl Y - Trizma I - NH4 Acetate	
Email: kiwamoto@hbws.org		WO #:		Other:	
Project Name: RED-HILL/HBWS Sites Event Desc: RUSH Weekly Red Hill		Project #: 38001111		Total Number of Containers	
Site: Hawaii		SSOW#:		Special Instructions/Note:	

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Seawater, On-site/Off-site)	Field Filled Sample (Yes or No)	Perform MS/MSD (Yes or No)	625.1, 625.1 SIM	8015B_GRO_LL - (MOD) GRO	8015B_DRO_LL_CS - HNL Ranges C10-C24/C24-C36/C38-C18	625.2_PREC - (MOD) 625plus Plus TICs	637.1_DW_PREC - 637.1 Full List	533 - All Analytes
Halawa Wells Units 1 & 2 P1	27-May-2025	1049	G	Water	☒	☒	2	3	2	2		
Halawa Wells Units 1 & 2 (Matrix Spike)				Water								
Halawa Wells Units 1 & 2 (Matrix Spike Duplicate)				Water								
TB: Halawa Wells Units 1 & 2	27-May-2025	1049		Water			2					
Aiea Wells Pumps 1&2 (260) P2	27-May-2025	1158	G	Water			2	3	2	2		
Aiea Wells Pumps 1&2 (260) (Matrix Spike)				Water								
Aiea Wells Pumps 1&2 (Matrix Spike Duplicate)				Water								
TB: Aiea Wells Pumps 1&2 (260)	27-May-2025	1158		Water				2				

380-152929 COC

Possible Hazard Identification		Date: 28 May 2025		Time: 1400	
☐ Non-Hazard	☐ Flammable	☐ Skin Irritant	☐ Poison B	☐ Unknown	☐ Radiological
Deliverable Requested I, II, III, IV, Other (specify)					
Empty Kit Relinquished by		Date: 28 May 2025		Time: 1400	
Relinquished by		Date: 28 May 2025		Time: 1400	
Custody Seals Intact: ☒ Yes ☐ No		Custody Seal No.		Cooler Temperature(s) °C and Other Remarks: 60.4/5.4 = 5.9	

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		Date of Shipment: 28 May 2025		Time: 1400	
☐ Return To Client	☐ Disposal By Lab	Method of Shipment: 816 015-2418/2418/2513		Company: HBWS	
Special Instructions/QC Requirements:		Date/Time: 5/29/25 9:54		Company: HBWS	
		Date/Time: 5/29/25 9:54		Company: HBWS	
		Date/Time: 5/29/25 9:54		Company: HBWS	

ORIGIN ID HIK (808) 748-5940
BWS CHEMLAB
HONOLULU BOARD OF WATER SUPPLY
630 S. BERETANIA ST
CHEMICAL LABORATORY
HONOLULU, HI 96843
UNITED STATES US

SHIP DATE: 28MAY25
ACTWGT 58.00 LB
CAD 258050552/INET4535

BILL RECIPIENT

TO EUROFINS RECEIVING DEPARTMENT
EUROFINS DRINKING WATER TESTING
941 CORPORATE CENTER DR

POMONA CA 91768

INV (626) 386-1100 REF:

PC: DEPT:



THU - 29 MAY 10:30A
PRIORITY OVERNIGHT

1 of 5

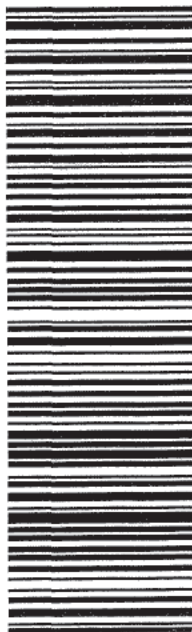
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Chain of Custody Record



Lọc: 380

Fr 152929

[illegible]

Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-152929-1

SDG Number: Weekly

Login Number: 152929

List Source: Eurofins Eaton Analytical Pomona

List Number: 1

Creator: Segura, Ryan

Question	Answer	Comment
The coolers custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
Samples were received on ice.	True	
Cooler(s) Temperature is acceptable.	True	
Cooler(s) Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and is legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
CIO4 headspace requirement met (>50% for CA, >30% for other states).	True	
Samples do not require splitting or compositing.	True	
Container provided by EEA	True	

Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-152929-1

SDG Number: Weekly

Login Number: 152929

List Number: 2

Creator: Khana, Piyush

List Source: Eurofins Calscience

List Creation: 05/30/25 01:26 PM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	