

ANALYTICAL REPORT

PREPARED FOR

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JOB DESCRIPTION

RED-HILL
Weekly
RUSH Weekly Red Hill

JOB NUMBER

380-152049-1

Eurofins Eaton Analytical Pomona

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Eaton Analytical, LLC Project Manager.

Compliance Statement

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

Authorization



Authorized for release by
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Definitions/Glossary

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

Job ID: 380-152049-1
SDG: Weekly

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA TICs

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

GC Semi VOA

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

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

Job ID: 380-152049-1

Job ID: 380-152049-1

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Job Narrative 380-152049-1

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 5/22/2025 10:06 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 0.6°C and 1.9°C.

GC/MS Semi VOA

Method 625.1: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 570-576139. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch. 625 Sim

Method 625.1_SIM: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 570-576139. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch. 625 Sim. Method 625.1_SIM: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 570-576139 and analytical batch 570-576518 recovered outside control limits for the following analytes: Pyrene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

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

Method 8015B_DRO_LL_CS: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 570-576069. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch. Method: 3510C_LL / 8015B_DRO_LL_CS

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: 380-152049-1
SDG: Weekly

Client Sample ID: Halawa Shaft Viewing Pool
PWSID Number: HI0000331

Lab Sample ID: 380-152049-1

☐ No Detections.

Client Sample ID: TRIP BLANK

Lab Sample ID: 380-152049-2

☐ No Detections.

This Detection Summary does not include radiochemical test results.

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Client Sample Results

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

Job ID: 380-152049-1
SDG: Weekly

Client Sample ID: Halawa Shaft Viewing Pool

Lab Sample ID: 380-152049-1

Date Collected: 05/20/25 10:00

Matrix: Drinking Water

Date Received: 05/22/25 10:06

PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.099		0.099	ug/L		05/28/25 07:58	05/29/25 13:41	1
2,4'-DDD	<0.099		0.099	ug/L		05/28/25 07:58	05/29/25 13:41	1
2,4'-DDE	<0.099		0.099	ug/L		05/28/25 07:58	05/29/25 13:41	1
2,4'-DDT	<0.099		0.099	ug/L		05/28/25 07:58	05/29/25 13:41	1
2,4-Dinitrotoluene	<0.099		0.099	ug/L		05/28/25 07:58	05/29/25 13:41	1
2,6-Dinitrotoluene	<0.099		0.099	ug/L		05/28/25 07:58	05/29/25 13:41	1
2-Methylnaphthalene	<0.099		0.099	ug/L		05/28/25 07:58	05/29/25 13:41	1
4,4'-DDD	<0.099		0.099	ug/L		05/28/25 07:58	05/29/25 13:41	1
4,4'-DDE	<0.099		0.099	ug/L		05/28/25 07:58	05/29/25 13:41	1
4,4'-DDT	<0.099		0.099	ug/L		05/28/25 07:58	05/29/25 13:41	1
Acenaphthene	<0.099		0.099	ug/L		05/28/25 07:58	05/29/25 13:41	1
Acenaphthylene	<0.099		0.099	ug/L		05/28/25 07:58	05/29/25 13:41	1
Acetochlor	<0.099		0.099	ug/L		05/28/25 07:58	05/29/25 13:41	1
Alachlor	<0.050		0.050	ug/L		05/28/25 07:58	05/29/25 13:41	1
alpha-BHC	<0.099		0.099	ug/L		05/28/25 07:58	05/29/25 13:41	1
alpha-Chlordane	<0.050		0.050	ug/L		05/28/25 07:58	05/29/25 13:41	1
Anthracene	<0.020		0.020	ug/L		05/28/25 07:58	05/29/25 13:41	1
Atrazine	<0.050		0.050	ug/L		05/28/25 07:58	05/29/25 13:41	1
Benz(a)anthracene	<0.050		0.050	ug/L		05/28/25 07:58	05/29/25 13:41	1
Benzo[a]pyrene	<0.020		0.020	ug/L		05/28/25 07:58	05/29/25 13:41	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		05/28/25 07:58	05/29/25 13:41	1
Benzo[g,h,i]perylene	<0.050		0.050	ug/L		05/28/25 07:58	05/29/25 13:41	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		05/28/25 07:58	05/29/25 13:41	1
beta-BHC	<0.099		0.099	ug/L		05/28/25 07:58	05/29/25 13:41	1
Bis(2-ethylhexyl) phthalate	<0.59		0.59	ug/L		05/28/25 07:58	05/29/25 13:41	1
Bromacil	<0.099		0.099	ug/L		05/28/25 07:58	05/29/25 13:41	1
Butachlor	<0.050		0.050	ug/L		05/28/25 07:58	05/29/25 13:41	1
Butylbenzylphthalate	<0.50		0.50	ug/L		05/28/25 07:58	05/29/25 13:41	1
Chlorobenzilate	<0.099		0.099	ug/L		05/28/25 07:58	05/29/25 13:41	1
Chloroneb	<0.099		0.099	ug/L		05/28/25 07:58	05/29/25 13:41	1
Chlorothalonil (Draconil, Bravo)	<0.099		0.099	ug/L		05/28/25 07:58	05/29/25 13:41	1
Chlorpyrifos	<0.050		0.050	ug/L		05/28/25 07:58	05/29/25 13:41	1
Chrysene	<0.020		0.020	ug/L		05/28/25 07:58	05/29/25 13:41	1
delta-BHC	<0.099		0.099	ug/L		05/28/25 07:58	05/29/25 13:41	1
Di(2-ethylhexyl)adipate	<0.59		0.59	ug/L		05/28/25 07:58	05/29/25 13:41	1
Dibenz(a,h)anthracene	<0.050		0.050	ug/L		05/28/25 07:58	05/29/25 13:41	1
Diclorvos (DDVP)	<0.050		0.050	ug/L		05/28/25 07:58	05/29/25 13:41	1
Dieldrin	<0.0099		0.0099	ug/L		05/28/25 07:58	05/29/25 13:41	1
Diethylphthalate	<0.50		0.50	ug/L		05/28/25 07:58	05/29/25 13:41	1
Dimethylphthalate	<0.50		0.50	ug/L		05/28/25 07:58	05/29/25 13:41	1
Di-n-butyl phthalate	<0.99		0.99	ug/L		05/28/25 07:58	05/29/25 13:41	1
Di-n-octyl phthalate	<0.099		0.099	ug/L		05/28/25 07:58	05/29/25 13:41	1
Endosulfan I (Alpha)	<0.099		0.099	ug/L		05/28/25 07:58	05/29/25 13:41	1
Endosulfan II (Beta)	<0.099		0.099	ug/L		05/28/25 07:58	05/29/25 13:41	1
Endosulfan sulfate	<0.099		0.099	ug/L		05/28/25 07:58	05/29/25 13:41	1
Endrin	<0.0099		0.0099	ug/L		05/28/25 07:58	05/29/25 13:41	1
Endrin aldehyde	<0.099		0.099	ug/L		05/28/25 07:58	05/29/25 13:41	1
EPTC	<0.099		0.099	ug/L		05/28/25 07:58	05/29/25 13:41	1
Fluoranthene	<0.099		0.099	ug/L		05/28/25 07:58	05/29/25 13:41	1

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Client Sample Results

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

Job ID: 380-152049-1
SDG: Weekly

Client Sample ID: Halawa Shaft Viewing Pool

Lab Sample ID: 380-152049-1

Date Collected: 05/20/25 10:00

Matrix: Drinking Water

Date Received: 05/22/25 10:06

PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	<0.050		0.050	ug/L		05/28/25 07:58	05/29/25 13:41	1
gamma-Chlordane	<0.050		0.050	ug/L		05/28/25 07:58	05/29/25 13:41	1
Heptachlor	<0.0099		0.0099	ug/L		05/28/25 07:58	05/29/25 13:41	1
Heptachlor epoxide (isomer B)	<0.0099		0.0099	ug/L		05/28/25 07:58	05/29/25 13:41	1
Hexachlorobenzene	<0.050		0.050	ug/L		05/28/25 07:58	05/29/25 13:41	1
Hexachlorocyclopentadiene	<0.050		0.050	ug/L		05/28/25 07:58	05/29/25 13:41	1
Indeno[1,2,3-cd]pyrene	<0.050		0.050	ug/L		05/28/25 07:58	05/29/25 13:41	1
Isophorone	<0.099		0.099	ug/L		05/28/25 07:58	05/29/25 13:41	1
Lindane	<0.0099		0.0099	ug/L		05/28/25 07:58	05/29/25 13:41	1
Malathion	<0.099		0.099	ug/L		05/28/25 07:58	05/29/25 13:41	1
Methoxychlor	<0.050		0.050	ug/L		05/28/25 07:58	05/29/25 13:41	1
Metolachlor	<0.050		0.050	ug/L		05/28/25 07:58	05/29/25 13:41	1
Molinate	<0.099		0.099	ug/L		05/28/25 07:58	05/29/25 13:41	1
Naphthalene	<0.099		0.099	ug/L		05/28/25 07:58	05/29/25 13:41	1
Parathion	<0.099		0.099	ug/L		05/28/25 07:58	05/29/25 13:41	1
Pendimethalin (Penoxaline)	<0.099		0.099	ug/L		05/28/25 07:58	05/29/25 13:41	1
Phenanthrene	<0.040		0.040	ug/L		05/28/25 07:58	05/29/25 13:41	1
Propachlor	<0.050		0.050	ug/L		05/28/25 07:58	05/29/25 13:41	1
Pyrene	<0.050		0.050	ug/L		05/28/25 07:58	05/29/25 13:41	1
Simazine	<0.050		0.050	ug/L		05/28/25 07:58	05/29/25 13:41	1
Terbacil	<0.099		0.099	ug/L		05/28/25 07:58	05/29/25 13:41	1
Terbutylazine	<0.099		0.099	ug/L		05/28/25 07:58	05/29/25 13:41	1
Thiobencarb	<0.099		0.099	ug/L		05/28/25 07:58	05/29/25 13:41	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		05/28/25 07:58	05/29/25 13:41	1
trans-Nonachlor	<0.050		0.050	ug/L		05/28/25 07:58	05/29/25 13:41	1
Trifluralin	<0.099		0.099	ug/L		05/28/25 07:58	05/29/25 13:41	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
9-Octadecenamide, (Z)-	2.2	T J N	ug/L		7.96	301-02-0	05/28/25 07:58	05/29/25 13:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	92		70 - 130	05/28/25 07:58	05/29/25 13:41	1
Perylene-d12	91		70 - 130	05/28/25 07:58	05/29/25 13:41	1
Triphenylphosphate	107		70 - 130	05/28/25 07:58	05/29/25 13:41	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		05/27/25 15:39	05/28/25 18:07	1
2-Methylnaphthalene	<0.19		0.19	ug/L		05/27/25 15:39	05/28/25 18:07	1
Acenaphthene	<0.19		0.19	ug/L		05/27/25 15:39	05/28/25 18:07	1
Acenaphthylene	<0.19		0.19	ug/L		05/27/25 15:39	05/28/25 18:07	1
Anthracene	<0.19		0.19	ug/L		05/27/25 15:39	05/28/25 18:07	1
Benzo[a]anthracene	<0.19		0.19	ug/L		05/27/25 15:39	05/28/25 18:07	1
Benzo[a]pyrene	<0.19		0.19	ug/L		05/27/25 15:39	05/28/25 18:07	1
Benzo[b]fluoranthene	<0.19		0.19	ug/L		05/27/25 15:39	05/28/25 18:07	1
Benzo[g,h,i]perylene	<0.19		0.19	ug/L		05/27/25 15:39	05/28/25 18:07	1
Benzo[k]fluoranthene	<0.19		0.19	ug/L		05/27/25 15:39	05/28/25 18:07	1
Chrysene	<0.19		0.19	ug/L		05/27/25 15:39	05/28/25 18:07	1
Dibenz(a,h)anthracene	<0.19		0.19	ug/L		05/27/25 15:39	05/28/25 18:07	1
Fluoranthene	<0.19		0.19	ug/L		05/27/25 15:39	05/28/25 18:07	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-152049-1
SDG: Weekly

Client Sample ID: Halawa Shaft Viewing Pool

Lab Sample ID: 380-152049-1

Date Collected: 05/20/25 10:00

Matrix: Drinking Water

Date Received: 05/22/25 10:06

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
Fluorene	<0.19		0.19	ug/L		05/27/25 15:39	05/28/25 18:07	1
Indeno[1,2,3-cd]pyrene	<0.19		0.19	ug/L		05/27/25 15:39	05/28/25 18:07	1
Naphthalene	<0.19		0.19	ug/L		05/27/25 15:39	05/28/25 18:07	1
Phenanthrene	<0.19		0.19	ug/L		05/27/25 15:39	05/28/25 18:07	1
Pyrene	<0.19	+	0.19	ug/L		05/27/25 15:39	05/28/25 18:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	94		28 - 127	05/27/25 15:39	05/28/25 18:07	1
2-Fluorobiphenyl (Surr)	86		31 - 120	05/27/25 15:39	05/28/25 18:07	1
2-Fluorophenol (Surr)	57		17 - 120	05/27/25 15:39	05/28/25 18:07	1
Nitrobenzene-d5 (Surr)	89		27 - 120	05/27/25 15:39	05/28/25 18:07	1
Phenol-d6 (Surr)	35		10 - 120	05/27/25 15:39	05/28/25 18:07	1
p-Terphenyl-d14 (Surr)	86		45 - 120	05/27/25 15:39	05/28/25 18:07	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
4-Octen-3-one	13	T J N	ug/L		2.73	14129-48-7	05/27/25 15:39	06/09/25 11:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	68		33 - 139	05/27/25 15:39	06/09/25 11:57	1
2-Fluorobiphenyl (Surr)	80		33 - 126	05/27/25 15:39	06/09/25 11:57	1
2-Fluorophenol (Surr)	53		12 - 120	05/27/25 15:39	06/09/25 11:57	1
Nitrobenzene-d5 (Surr)	82		36 - 120	05/27/25 15:39	06/09/25 11:57	1
Phenol-d6 (Surr)	30		10 - 120	05/27/25 15:39	06/09/25 11:57	1
p-Terphenyl-d14 (Surr)	83		47 - 131	05/27/25 15:39	06/09/25 11:57	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			05/30/25 00:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79		38 - 134		05/30/25 00:51	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)	<27		27	ug/L		05/27/25 13:42	06/01/25 13:24	1
Motor Oil Range Organics [C24-C36]	<27		27	ug/L		05/27/25 13:42	06/01/25 13:24	1
C8-C18	<27		27	ug/L		05/27/25 13:42	06/01/25 13:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	95		60 - 130	05/27/25 13:42	06/01/25 13:24	1

Client Sample ID: TRIP BLANK

Lab Sample ID: 380-152049-2

Date Collected: 05/20/25 10:00

Matrix: Water

Date Received: 05/22/25 10:06

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			05/29/25 23:37	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-152049-1
SDG: Weekly

Client Sample ID: TRIP BLANK

Lab Sample ID: 380-152049-2

Date Collected: 05/20/25 10:00

Matrix: Water

Date Received: 05/22/25 10:06

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79		38 - 134		05/29/25 23:37	1

Action Limit Summary

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

Job ID: 380-152049-1
SDG: Weekly

Client Sample ID: Halawa Shaft Viewing Pool
PWSID Number: HI0000331

Lab Sample ID: 380-152049-1

Compliance Check

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

Analyte	Result	Qualifier	Unit	EPAMCL	RL	Method	Prep Type
				Limit			
Alachlor	<0.050		ug/L	2	0.050	525.2	Total/NA
Atrazine	<0.050		ug/L	3	0.050	525.2	Total/NA
Benzo[a]pyrene	<0.020		ug/L	0.2	0.020	525.2	Total/NA
Bis(2-ethylhexyl) phthalate	<0.59		ug/L	6	0.59	525.2	Total/NA
Di(2-ethylhexyl)adipate	<0.59		ug/L	400	0.59	525.2	Total/NA
Endrin	<0.0099		ug/L	2	0.0099	525.2	Total/NA
Heptachlor	<0.0099		ug/L	0.4	0.0099	525.2	Total/NA
Heptachlor epoxide (isomer B)	<0.0099		ug/L	0.2	0.0099	525.2	Total/NA
Hexachlorobenzene	<0.050		ug/L	1	0.050	525.2	Total/NA
Hexachlorocyclopentadiene	<0.050		ug/L	50	0.050	525.2	Total/NA
Lindane	<0.0099		ug/L	0.2	0.0099	525.2	Total/NA
Methoxychlor	<0.050		ug/L	40	0.050	525.2	Total/NA
Simazine	<0.050		ug/L	4	0.050	525.2	Total/NA
Benzo[a]pyrene	<0.19		ug/L	0.2	0.19	625.1 SIM	Total/NA

Surrogate Summary

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

Job ID: 380-152049-1
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)				
380-152049-1	Halawa Shaft Viewing Pool	92	91	107				

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)				
380-151960-AD-3-A MS	Matrix Spike	92	94	111				
380-151960-AD-4-A DU	Duplicate	91	87	109				
LCS 380-154673/23-A	Lab Control Sample	91	97	114				
MB 380-154673/21-A	Method Blank	89	94	113				
MRL 380-154673/22-A	Lab Control Sample	91	90	108				

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)		
380-152049-1	Halawa Shaft Viewing Pool	68	80	53	82	30	83		

Surrogate Legend

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

FBP = 2-Fluorobiphenyl (Surr)

2FP = 2-Fluorophenol (Surr)

NBZ = Nitrobenzene-d5 (Surr)

PHL6 = Phenol-d6 (Surr)

TPHd14 = p-Terphenyl-d14 (Surr)

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

Matrix: Water

Prep Type: Total/NA

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 570-576139/1-A	Method Blank	69	87	58	87	34	86		

Surrogate Legend

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

FBP = 2-Fluorobiphenyl (Surr)

2FP = 2-Fluorophenol (Surr)

NBZ = Nitrobenzene-d5 (Surr)

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Surrogate Summary

Client: City & County of Honolulu
Project/Site: RED-HILL
PHL6 = Phenol-d6 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)

Job ID: 380-152049-1
SDG: Weekly

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)
380-152049-1	Halawa Shaft Viewing Pool	94	86	57	89	35	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)
LCS 570-576139/2-A	Lab Control Sample	90	82	61	73	39	90
LCSD 570-576139/3-A	Lab Control Sample Dup	97	91	64	77	42	97
MB 570-576139/1-A	Method Blank	96	88	59	92	38	88

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL6 = Phenol-d6 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)

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

Matrix: Drinking Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		BFB1 (38-134)					
380-152049-1	Halawa Shaft Viewing Pool	79					

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		BFB1 (38-134)					
380-151627-B-1 MS	Matrix Spike	86					
380-151627-B-1 MSD	Matrix Spike Duplicate	86					
380-152049-2	TRIP BLANK	79					
LCS 570-576992/4	Lab Control Sample	87					
LCSD 570-576992/5	Lab Control Sample Dup	88					

Surrogate Summary

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

Job ID: 380-152049-1
SDG: Weekly

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

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB1 (38-134)
MB 570-576992/6	Method Blank	80
MRL 570-576992/3	Lab Control Sample	83

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)
380-152049-1	Halawa Shaft Viewing Pool	95

Surrogate Legend

OTCSN = n-Octacosane (Surr)

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

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	OTCSN1 (60-130)
LCS 570-576069/2-A	Lab Control Sample	83
LCSD 570-576069/3-A	Lab Control Sample Dup	80
MB 570-576069/1-A	Method Blank	77
MRL 570-576069/4-A	Lab Control Sample	67

Surrogate Legend

OTCSN = n-Octacosane (Surr)

QC Sample Results

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

Job ID: 380-152049-1
SDG: Weekly

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

Lab Sample ID: MB 380-154673/21-A

Matrix: Water

Analysis Batch: 154956

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 154673

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.097		0.097	ug/L		05/28/25 07:58	05/29/25 12:21	1
2,4'-DDD	<0.097		0.097	ug/L		05/28/25 07:58	05/29/25 12:21	1
2,4'-DDE	<0.097		0.097	ug/L		05/28/25 07:58	05/29/25 12:21	1
2,4'-DDT	<0.097		0.097	ug/L		05/28/25 07:58	05/29/25 12:21	1
2,4-Dinitrotoluene	<0.097		0.097	ug/L		05/28/25 07:58	05/29/25 12:21	1
2,6-Dinitrotoluene	<0.097		0.097	ug/L		05/28/25 07:58	05/29/25 12:21	1
2-Methylnaphthalene	<0.097		0.097	ug/L		05/28/25 07:58	05/29/25 12:21	1
4,4'-DDD	<0.097		0.097	ug/L		05/28/25 07:58	05/29/25 12:21	1
4,4'-DDE	<0.097		0.097	ug/L		05/28/25 07:58	05/29/25 12:21	1
4,4'-DDT	<0.097		0.097	ug/L		05/28/25 07:58	05/29/25 12:21	1
Acenaphthene	<0.097		0.097	ug/L		05/28/25 07:58	05/29/25 12:21	1
Acenaphthylene	<0.097		0.097	ug/L		05/28/25 07:58	05/29/25 12:21	1
Acetochlor	<0.097		0.097	ug/L		05/28/25 07:58	05/29/25 12:21	1
Alachlor	<0.049		0.049	ug/L		05/28/25 07:58	05/29/25 12:21	1
alpha-BHC	<0.097		0.097	ug/L		05/28/25 07:58	05/29/25 12:21	1
alpha-Chlordane	<0.049		0.049	ug/L		05/28/25 07:58	05/29/25 12:21	1
Anthracene	<0.019		0.019	ug/L		05/28/25 07:58	05/29/25 12:21	1
Atrazine	<0.049		0.049	ug/L		05/28/25 07:58	05/29/25 12:21	1
Benz(a)anthracene	<0.049		0.049	ug/L		05/28/25 07:58	05/29/25 12:21	1
Benzo[a]pyrene	<0.019		0.019	ug/L		05/28/25 07:58	05/29/25 12:21	1
Benzo[b]fluoranthene	<0.019		0.019	ug/L		05/28/25 07:58	05/29/25 12:21	1
Benzo[g,h,i]perylene	<0.049		0.049	ug/L		05/28/25 07:58	05/29/25 12:21	1
Benzo[k]fluoranthene	<0.019		0.019	ug/L		05/28/25 07:58	05/29/25 12:21	1
beta-BHC	<0.097		0.097	ug/L		05/28/25 07:58	05/29/25 12:21	1
Bis(2-ethylhexyl) phthalate	<0.58		0.58	ug/L		05/28/25 07:58	05/29/25 12:21	1
Bromacil	<0.097		0.097	ug/L		05/28/25 07:58	05/29/25 12:21	1
Butachlor	<0.049		0.049	ug/L		05/28/25 07:58	05/29/25 12:21	1
Butylbenzylphthalate	<0.49		0.49	ug/L		05/28/25 07:58	05/29/25 12:21	1
Chlorobenzilate	<0.097		0.097	ug/L		05/28/25 07:58	05/29/25 12:21	1
Chloroneb	<0.097		0.097	ug/L		05/28/25 07:58	05/29/25 12:21	1
Chlorothalonil (Draconil, Bravo)	<0.097		0.097	ug/L		05/28/25 07:58	05/29/25 12:21	1
Chlorpyrifos	<0.049		0.049	ug/L		05/28/25 07:58	05/29/25 12:21	1
Chrysene	<0.019		0.019	ug/L		05/28/25 07:58	05/29/25 12:21	1
delta-BHC	<0.097		0.097	ug/L		05/28/25 07:58	05/29/25 12:21	1
Di(2-ethylhexyl)adipate	<0.58		0.58	ug/L		05/28/25 07:58	05/29/25 12:21	1
Dibenz(a,h)anthracene	<0.049		0.049	ug/L		05/28/25 07:58	05/29/25 12:21	1
Diclorvos (DDVP)	<0.049		0.049	ug/L		05/28/25 07:58	05/29/25 12:21	1
Dieldrin	<0.0097		0.0097	ug/L		05/28/25 07:58	05/29/25 12:21	1
Diethylphthalate	<0.49		0.49	ug/L		05/28/25 07:58	05/29/25 12:21	1
Dimethylphthalate	<0.49		0.49	ug/L		05/28/25 07:58	05/29/25 12:21	1
Di-n-butyl phthalate	<0.97		0.97	ug/L		05/28/25 07:58	05/29/25 12:21	1
Di-n-octyl phthalate	<0.097		0.097	ug/L		05/28/25 07:58	05/29/25 12:21	1
Endosulfan I (Alpha)	<0.097		0.097	ug/L		05/28/25 07:58	05/29/25 12:21	1
Endosulfan II (Beta)	<0.097		0.097	ug/L		05/28/25 07:58	05/29/25 12:21	1
Endosulfan sulfate	<0.097		0.097	ug/L		05/28/25 07:58	05/29/25 12:21	1
Endrin	<0.0097		0.0097	ug/L		05/28/25 07:58	05/29/25 12:21	1
Endrin aldehyde	<0.097		0.097	ug/L		05/28/25 07:58	05/29/25 12:21	1
EPTC	<0.097		0.097	ug/L		05/28/25 07:58	05/29/25 12:21	1

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QC Sample Results

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

Job ID: 380-152049-1
SDG: Weekly

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

Lab Sample ID: MB 380-154673/21-A

Matrix: Water

Analysis Batch: 154956

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 154673

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	<0.097		0.097	ug/L		05/28/25 07:58	05/29/25 12:21	1
Fluorene	<0.049		0.049	ug/L		05/28/25 07:58	05/29/25 12:21	1
gamma-Chlordane	<0.049		0.049	ug/L		05/28/25 07:58	05/29/25 12:21	1
Heptachlor	<0.0097		0.0097	ug/L		05/28/25 07:58	05/29/25 12:21	1
Heptachlor epoxide (isomer B)	<0.0097		0.0097	ug/L		05/28/25 07:58	05/29/25 12:21	1
Hexachlorobenzene	<0.049		0.049	ug/L		05/28/25 07:58	05/29/25 12:21	1
Hexachlorocyclopentadiene	<0.049		0.049	ug/L		05/28/25 07:58	05/29/25 12:21	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049	ug/L		05/28/25 07:58	05/29/25 12:21	1
Isophorone	<0.097		0.097	ug/L		05/28/25 07:58	05/29/25 12:21	1
Lindane	<0.0097		0.0097	ug/L		05/28/25 07:58	05/29/25 12:21	1
Malathion	<0.097		0.097	ug/L		05/28/25 07:58	05/29/25 12:21	1
Methoxychlor	<0.049		0.049	ug/L		05/28/25 07:58	05/29/25 12:21	1
Metolachlor	<0.049		0.049	ug/L		05/28/25 07:58	05/29/25 12:21	1
Molinate	<0.097		0.097	ug/L		05/28/25 07:58	05/29/25 12:21	1
Naphthalene	<0.097		0.097	ug/L		05/28/25 07:58	05/29/25 12:21	1
Parathion	<0.097		0.097	ug/L		05/28/25 07:58	05/29/25 12:21	1
Pendimethalin (Penoxaline)	<0.097		0.097	ug/L		05/28/25 07:58	05/29/25 12:21	1
Phenanthrene	<0.039		0.039	ug/L		05/28/25 07:58	05/29/25 12:21	1
Propachlor	<0.049		0.049	ug/L		05/28/25 07:58	05/29/25 12:21	1
Pyrene	<0.049		0.049	ug/L		05/28/25 07:58	05/29/25 12:21	1
Simazine	<0.049		0.049	ug/L		05/28/25 07:58	05/29/25 12:21	1
Terbacil	<0.097		0.097	ug/L		05/28/25 07:58	05/29/25 12:21	1
Terbutylazine	<0.097		0.097	ug/L		05/28/25 07:58	05/29/25 12:21	1
Thiobencarb	<0.097		0.097	ug/L		05/28/25 07:58	05/29/25 12:21	1
Total Permethrin (mixed isomers)	<0.19		0.19	ug/L		05/28/25 07:58	05/29/25 12:21	1
trans-Nonachlor	<0.049		0.049	ug/L		05/28/25 07:58	05/29/25 12:21	1
Trifluralin	<0.097		0.097	ug/L		05/28/25 07:58	05/29/25 12:21	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-	1.26	T J N	ug/L		2.52	197390-29-7	05/28/25 07:58	05/29/25 12:21	1
Unknown	0.525	T J	ug/L		2.65	N/A	05/28/25 07:58	05/29/25 12:21	1
Decane	2.62	T J N	ug/L		2.77	124-18-5	05/28/25 07:58	05/29/25 12:21	1
9-Octadecenamide, (Z)-	4.51	T J N	ug/L		7.96	301-02-0	05/28/25 07:58	05/29/25 12:21	1
Unknown	2.23	T J	ug/L		14.72	N/A	05/28/25 07:58	05/29/25 12:21	1
tri(2-Ethylhexyl) trimellitate	9.95	T J N	ug/L		15.74	3319-31-1	05/28/25 07:58	05/29/25 12:21	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	89		70 - 130	05/28/25 07:58	05/29/25 12:21	1
Perylene-d12	94		70 - 130	05/28/25 07:58	05/29/25 12:21	1
Triphenylphosphate	113		70 - 130	05/28/25 07:58	05/29/25 12:21	1

Lab Sample ID: LCS 380-154673/23-A

Matrix: Water

Analysis Batch: 154956

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 154673

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	1.94	1.99		ug/L		102	70 - 130
2,4'-DDD	1.94	2.18		ug/L		112	70 - 130

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QC Sample Results

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

Job ID: 380-152049-1
SDG: Weekly

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

Lab Sample ID: LCS 380-154673/23-A

Matrix: Water

Analysis Batch: 154956

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 154673

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4'-DDE	1.94	2.18		ug/L		112	70 - 130
2,4'-DDT	1.94	1.99		ug/L		103	70 - 130
2,4-Dinitrotoluene	1.94	1.86		ug/L		96	70 - 130
2,6-Dinitrotoluene	1.94	1.92		ug/L		99	70 - 130
2-Methylnaphthalene	1.94	2.01		ug/L		104	70 - 130
4,4'-DDD	1.94	2.03		ug/L		105	70 - 130
4,4'-DDE	1.94	2.32		ug/L		119	70 - 130
4,4'-DDT	1.94	2.06		ug/L		106	70 - 130
Acenaphthene	1.94	1.95		ug/L		100	70 - 130
Acenaphthylene	1.94	2.02		ug/L		104	70 - 130
Acetochlor	1.94	2.06		ug/L		106	70 - 130
Alachlor	1.94	2.26		ug/L		116	70 - 130
alpha-BHC	1.94	2.02		ug/L		104	70 - 130
alpha-Chlordane	1.94	2.27		ug/L		117	70 - 130
Anthracene	1.94	1.65		ug/L		85	70 - 130
Atrazine	1.94	2.05		ug/L		106	70 - 130
Benz(a)anthracene	1.94	2.15		ug/L		111	70 - 130
Benzo[a]pyrene	1.94	2.08		ug/L		107	70 - 130
Benzo[b]fluoranthene	1.94	2.33		ug/L		120	70 - 130
Benzo[g,h,i]perylene	1.94	2.13		ug/L		110	70 - 130
Benzo[k]fluoranthene	1.94	2.41		ug/L		124	70 - 130
beta-BHC	1.94	1.99		ug/L		102	70 - 130
Bis(2-ethylhexyl) phthalate	1.94	1.82		ug/L		94	70 - 130
Bromacil	1.94	1.93		ug/L		100	70 - 130
Butachlor	1.94	2.10		ug/L		108	70 - 130
Butylbenzylphthalate	1.94	2.29		ug/L		118	70 - 130
Chlorobenzilate	1.94	2.06		ug/L		106	70 - 130
Chloroneb	1.94	1.95		ug/L		100	70 - 130
Chlorothalonil (Draconil, Bravo)	1.94	2.16		ug/L		111	70 - 130
Chlorpyrifos	1.94	2.26		ug/L		117	70 - 130
Chrysene	1.94	2.20		ug/L		113	70 - 130
delta-BHC	1.94	2.03		ug/L		105	70 - 130
Di(2-ethylhexyl)adipate	1.94	1.97		ug/L		101	70 - 130
Dibenz(a,h)anthracene	1.94	2.07		ug/L		107	70 - 130
Diclorvos (DDVP)	1.94	1.96		ug/L		101	70 - 130
Dieldrin	1.94	2.12		ug/L		109	70 - 130
Diethylphthalate	1.94	2.07		ug/L		106	70 - 130
Dimethylphthalate	1.94	2.12		ug/L		109	70 - 130
Di-n-butyl phthalate	3.88	4.01		ug/L		103	70 - 130
Di-n-octyl phthalate	1.94	1.66		ug/L		86	70 - 130
Endosulfan I (Alpha)	1.94	1.97		ug/L		101	70 - 130
Endosulfan II (Beta)	1.94	2.11		ug/L		109	70 - 130
Endosulfan sulfate	1.94	2.21		ug/L		114	70 - 130
Endrin	1.94	2.31		ug/L		119	70 - 130
Endrin aldehyde	1.94	2.37		ug/L		122	60 - 130
EPTC	1.94	2.15		ug/L		111	70 - 130
Fluoranthene	1.94	2.19		ug/L		113	70 - 130
Fluorene	1.94	2.17		ug/L		112	70 - 130
gamma-Chlordane	1.94	2.16		ug/L		111	70 - 130

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-152049-1
SDG: Weekly

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

Lab Sample ID: LCS 380-154673/23-A

Matrix: Water

Analysis Batch: 154956

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 154673

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Heptachlor	1.94	2.33		ug/L		120	70 - 130
Heptachlor epoxide (isomer B)	1.94	2.41		ug/L		124	70 - 130
Hexachlorobenzene	1.94	2.09		ug/L		107	70 - 130
Hexachlorocyclopentadiene	1.94	2.09		ug/L		108	70 - 130
Indeno[1,2,3-cd]pyrene	1.94	2.16		ug/L		111	70 - 130
Isophorone	1.94	1.93		ug/L		99	70 - 130
Lindane	1.94	2.10		ug/L		108	70 - 130
Malathion	1.94	2.11		ug/L		109	70 - 130
Methoxychlor	1.94	2.09		ug/L		107	70 - 130
Metolachlor	1.94	2.15		ug/L		110	70 - 130
Molinate	1.94	2.10		ug/L		108	70 - 130
Naphthalene	1.94	1.90		ug/L		98	70 - 130
Parathion	1.94	2.03		ug/L		105	70 - 130
Pendimethalin (Penoxaline)	1.94	2.00		ug/L		103	70 - 130
Phenanthrene	1.94	2.08		ug/L		107	70 - 130
Propachlor	1.94	2.15		ug/L		111	70 - 130
Pyrene	1.94	2.09		ug/L		107	70 - 130
Simazine	1.94	1.91		ug/L		98	70 - 130
Terbacil	1.94	2.31		ug/L		119	70 - 130
Terbutylazine	1.94	2.07		ug/L		107	70 - 130
Thiobencarb	1.94	2.01		ug/L		104	70 - 130
trans-Nonachlor	1.94	2.19		ug/L		113	70 - 130
Trifluralin	1.94	1.87		ug/L		97	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Nitro-m-xylene	91		70 - 130
Perylene-d12	97		70 - 130
Triphenylphosphate	114		70 - 130

Lab Sample ID: MRL 380-154673/22-A

Matrix: Water

Analysis Batch: 154956

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 154673

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	0.0969	0.107		ug/L		111	50 - 150
2,4'-DDD	0.0969	0.0869	J	ug/L		90	50 - 150
2,4'-DDE	0.0969	0.100		ug/L		103	50 - 150
2,4'-DDT	0.0969	0.110		ug/L		114	50 - 150
2,4-Dinitrotoluene	0.0969	0.0990		ug/L		102	50 - 150
2,6-Dinitrotoluene	0.0969	0.126		ug/L		130	50 - 150
2-Methylnaphthalene	0.0969	0.104		ug/L		108	50 - 150
4,4'-DDD	0.0969	0.107		ug/L		110	50 - 150
4,4'-DDE	0.0969	0.102		ug/L		106	50 - 150
4,4'-DDT	0.0969	0.116		ug/L		119	50 - 150
Acenaphthene	0.0969	0.0940	J	ug/L		97	50 - 150
Acenaphthylene	0.0969	0.0889	J	ug/L		92	50 - 150
Acetochlor	0.0969	0.115		ug/L		119	50 - 150
Alachlor	0.0484	0.0565		ug/L		117	50 - 150

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-152049-1
SDG: Weekly

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

Lab Sample ID: MRL 380-154673/22-A

Matrix: Water

Analysis Batch: 154956

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 154673

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
alpha-BHC	0.0969	0.0987		ug/L		102	50 - 150
alpha-Chlordane	0.0242	0.0319	J	ug/L		132	50 - 150
Anthracene	0.0194	0.0207		ug/L		107	50 - 150
Atrazine	0.0484	0.0635		ug/L		131	50 - 150
Benz(a)anthracene	0.0484	0.0539		ug/L		111	50 - 150
Benzo[a]pyrene	0.0194	0.0193		ug/L		100	50 - 150
Benzo[b]fluoranthene	0.0194	0.0242		ug/L		125	50 - 150
Benzo[g,h,i]perylene	0.0484	0.0531		ug/L		110	50 - 150
Benzo[k]fluoranthene	0.0194	0.0232		ug/L		120	50 - 150
beta-BHC	0.0969	0.101		ug/L		104	50 - 150
Bis(2-ethylhexyl) phthalate	0.581	0.640		ug/L		110	50 - 150
Bromacil	0.0969	0.112		ug/L		116	50 - 150
Butachlor	0.0484	0.0689		ug/L		142	50 - 150
Butylbenzylphthalate	0.484	0.568		ug/L		117	50 - 150
Chlorobenzilate	0.0969	0.103		ug/L		107	50 - 150
Chloroneb	0.0969	0.104		ug/L		107	50 - 150
Chlorothalonil (Draconil, Bravo)	0.0969	0.100		ug/L		104	50 - 150
Chlorpyrifos	0.0484	0.0505		ug/L		104	50 - 150
Chrysene	0.0194	0.0242		ug/L		125	50 - 150
delta-BHC	0.0969	0.0938	J	ug/L		97	50 - 150
Di(2-ethylhexyl)adipate	0.581	0.623		ug/L		107	50 - 150
Dibenz(a,h)anthracene	0.0484	0.0579		ug/L		119	50 - 150
Diclorvos (DDVP)	0.0484	0.0537		ug/L		111	50 - 150
Dieldrin	0.00969	0.0139		ug/L		144	50 - 150
Diethylphthalate	0.484	0.499		ug/L		103	50 - 150
Dimethylphthalate	0.484	0.523		ug/L		108	50 - 150
Di-n-butyl phthalate	0.484	0.438	J	ug/L		91	49 - 243
Di-n-octyl phthalate	0.0969	0.0953	J	ug/L		98	50 - 150
Endosulfan I (Alpha)	0.0969	0.0976		ug/L		101	50 - 150
Endosulfan II (Beta)	0.0969	0.109		ug/L		113	50 - 150
Endosulfan sulfate	0.0969	0.115		ug/L		119	50 - 150
Endrin	0.00969	0.0126		ug/L		130	50 - 150
Endrin aldehyde	0.0969	0.120		ug/L		124	50 - 150
EPTC	0.0969	0.0996		ug/L		103	50 - 150
Fluoranthene	0.0969	0.0991		ug/L		102	50 - 150
Fluorene	0.0484	0.0537		ug/L		111	50 - 150
gamma-Chlordane	0.0242	0.0333	J	ug/L		137	50 - 150
Heptachlor	0.00969	0.0102		ug/L		105	50 - 150
Heptachlor epoxide (isomer B)	0.00969	0.0135		ug/L		140	50 - 150
Hexachlorobenzene	0.0484	0.0507		ug/L		105	50 - 150
Hexachlorocyclopentadiene	0.0484	0.0463	J	ug/L		96	50 - 150
Indeno[1,2,3-cd]pyrene	0.0484	0.0569		ug/L		117	50 - 150
Isophorone	0.0969	0.107		ug/L		111	50 - 150
Lindane	0.00969	0.00910	J	ug/L		94	50 - 150
Malathion	0.0969	0.108		ug/L		112	50 - 150
Methoxychlor	0.0484	0.0719		ug/L		148	50 - 150
Metolachlor	0.0484	0.0616		ug/L		127	50 - 150
Molinate	0.0969	0.102		ug/L		105	50 - 150
Naphthalene	0.0969	0.101		ug/L		104	50 - 150

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-152049-1
SDG: Weekly

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

Lab Sample ID: MRL 380-154673/22-A

Matrix: Water

Analysis Batch: 154956

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 154673

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Parathion	0.0969	0.0907	J	ug/L		94	50 - 150
Pendimethalin (Penoxaline)	0.0969	0.0978		ug/L		101	50 - 150
Phenanthrene	0.0387	0.0434		ug/L		112	50 - 150
Propachlor	0.0484	0.0518		ug/L		107	50 - 150
Pyrene	0.0484	0.0594		ug/L		123	50 - 150
Simazine	0.0484	0.0633		ug/L		131	50 - 150
Terbacil	0.0969	0.108		ug/L		111	50 - 150
Terbutylazine	0.0969	0.106		ug/L		109	50 - 150
Thiobencarb	0.0969	0.100		ug/L		103	50 - 150
trans-Nonachlor	0.0242	0.0314	J	ug/L		130	50 - 150
Trifluralin	0.0969	0.0986		ug/L		102	50 - 150

Surrogate	MRL %Recovery	MRL Qualifier	Limits
2-Nitro-m-xylene	91		70 - 130
Perylene-d12	90		70 - 130
Triphenylphosphate	108		70 - 130

Lab Sample ID: 380-151960-AD-3-A MS

Matrix: Water

Analysis Batch: 154956

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 154673

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	<0.098		1.96	2.02		ug/L		103	70 - 130
2,4'-DDD	<0.098		1.96	2.20		ug/L		112	70 - 130
2,4'-DDE	<0.098		1.96	2.23		ug/L		113	70 - 130
2,4'-DDT	<0.098		1.96	2.05		ug/L		104	70 - 130
2,4-Dinitrotoluene	<0.098		1.96	1.98		ug/L		101	70 - 130
2,6-Dinitrotoluene	<0.098		1.96	2.03		ug/L		103	70 - 130
2-Methylnaphthalene	<0.098		1.96	2.03		ug/L		103	70 - 130
4,4'-DDD	<0.098		1.96	2.01		ug/L		102	70 - 130
4,4'-DDE	<0.098		1.96	2.33		ug/L		119	70 - 130
4,4'-DDT	<0.098		1.96	2.06		ug/L		105	70 - 130
Acenaphthene	<0.098		1.96	2.04		ug/L		104	70 - 130
Acenaphthylene	<0.098		1.96	1.96		ug/L		100	70 - 130
Acetochlor	<0.098		1.96	2.10		ug/L		107	70 - 130
Alachlor	<0.049		1.96	2.24		ug/L		114	70 - 130
alpha-BHC	<0.098		1.96	2.09		ug/L		107	70 - 130
alpha-Chlordane	<0.049		1.96	2.28		ug/L		116	70 - 130
Anthracene	<0.020	F1	1.96	0.301	F1	ug/L		15	70 - 130
Atrazine	<0.049		1.96	2.09		ug/L		106	70 - 130
Benz(a)anthracene	<0.049		1.96	1.62		ug/L		83	70 - 130
Benzo[a]pyrene	<0.020	F1	1.96	1.22	F1	ug/L		62	70 - 130
Benzo[b]fluoranthene	<0.020		1.96	2.37		ug/L		121	70 - 130
Benzo[g,h,i]perylene	<0.049		1.96	2.24		ug/L		114	70 - 130
Benzo[k]fluoranthene	<0.020		1.96	2.35		ug/L		120	70 - 130
beta-BHC	<0.098		1.96	2.07		ug/L		105	70 - 130
Bis(2-ethylhexyl) phthalate	<0.59		1.96	2.02		ug/L		103	70 - 130
Bromacil	<0.098		1.96	1.97		ug/L		101	70 - 130

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-152049-1
SDG: Weekly

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

Lab Sample ID: 380-151960-AD-3-A MS

Matrix: Water

Analysis Batch: 154956

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 154673

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Butachlor	<0.049		1.96	2.09		ug/L		106	70 - 130
Butylbenzylphthalate	<0.49		1.96	2.24		ug/L		114	70 - 130
Chlorobenzilate	<0.098		1.96	2.04		ug/L		104	70 - 130
Chloroneb	<0.098		1.96	2.05		ug/L		104	70 - 130
Chlorothalonil (Draconil, Bravo)	<0.098		1.96	2.22		ug/L		113	70 - 130
Chlorpyrifos	<0.049		1.96	2.28		ug/L		116	70 - 130
Chrysene	<0.020		1.96	2.19		ug/L		111	70 - 130
delta-BHC	<0.098		1.96	2.05		ug/L		104	70 - 130
Di(2-ethylhexyl)adipate	<0.59		1.96	2.12		ug/L		108	70 - 130
Dibenz(a,h)anthracene	<0.049		1.96	2.20		ug/L		112	70 - 130
Diclorvos (DDVP)	<0.049		1.96	1.99		ug/L		101	70 - 130
Dieldrin	<0.0098		1.96	2.19		ug/L		111	70 - 130
Diethylphthalate	<0.49		1.96	2.11		ug/L		107	70 - 130
Dimethylphthalate	<0.49		1.96	2.19		ug/L		111	70 - 130
Di-n-butyl phthalate	<0.98		3.93	4.00		ug/L		102	70 - 130
Di-n-octyl phthalate	<0.098		1.96	1.93		ug/L		98	70 - 130
Endosulfan I (Alpha)	<0.098		1.96	2.01		ug/L		102	70 - 130
Endosulfan II (Beta)	<0.098		1.96	2.10		ug/L		107	70 - 130
Endosulfan sulfate	<0.098		1.96	2.24		ug/L		114	70 - 130
Endrin	<0.0098		1.96	2.30		ug/L		117	70 - 130
Endrin aldehyde	<0.098		1.96	2.18		ug/L		111	60 - 130
EPTC	<0.098		1.96	2.16		ug/L		110	70 - 130
Fluoranthene	<0.098		1.96	2.14		ug/L		109	70 - 130
Fluorene	<0.049		1.96	2.22		ug/L		113	70 - 130
gamma-Chlordane	<0.049		1.96	2.24		ug/L		114	70 - 130
Heptachlor	<0.0098		1.96	2.35		ug/L		119	70 - 130
Heptachlor epoxide (isomer B)	<0.0098		1.96	2.44		ug/L		124	70 - 130
Hexachlorobenzene	<0.049		1.96	2.15		ug/L		109	70 - 130
Hexachlorocyclopentadiene	<0.049		1.96	2.08		ug/L		106	70 - 130
Indeno[1,2,3-cd]pyrene	<0.049		1.96	2.26		ug/L		115	70 - 130
Isophorone	<0.098		1.96	1.98		ug/L		101	70 - 130
Lindane	<0.0098		1.96	2.18		ug/L		111	70 - 130
Malathion	<0.098		1.96	2.07		ug/L		106	70 - 130
Methoxychlor	<0.049		1.96	2.12		ug/L		108	70 - 130
Metolachlor	<0.049		1.96	2.20		ug/L		112	70 - 130
Molinate	<0.098		1.96	2.18		ug/L		111	70 - 130
Naphthalene	<0.098		1.96	1.95		ug/L		99	70 - 130
Parathion	<0.098		1.96	2.03		ug/L		104	70 - 130
Pendimethalin (Penoxaline)	<0.098		1.96	2.06		ug/L		105	70 - 130
Phenanthrene	<0.039		1.96	2.06		ug/L		105	70 - 130
Propachlor	<0.049		1.96	2.20		ug/L		112	70 - 130
Pyrene	<0.049		1.96	1.99		ug/L		101	70 - 130
Simazine	<0.049		1.96	1.97		ug/L		100	70 - 130
Terbacil	<0.098		1.96	2.32		ug/L		118	70 - 130
Terbutylazine	<0.098		1.96	2.12		ug/L		108	70 - 130
Thiobencarb	<0.098		1.96	2.03		ug/L		103	70 - 130
trans-Nonachlor	<0.049		1.96	2.24		ug/L		114	70 - 130
Trifluralin	<0.098		1.96	1.97		ug/L		100	70 - 130

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-152049-1
SDG: Weekly

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

Lab Sample ID: 380-151960-AD-3-A MS

Matrix: Water

Analysis Batch: 154956

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 154673

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
2-Nitro-m-xylene	92		70 - 130
Perylene-d12	94		70 - 130
Triphenylphosphate	111		70 - 130

Lab Sample ID: 380-151960-AD-4-A DU

Matrix: Water

Analysis Batch: 154956

Client Sample ID: Duplicate

Prep Type: Total/NA

Prep Batch: 154673

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

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-152049-1
SDG: Weekly

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

Lab Sample ID: 380-151960-AD-4-A DU

Matrix: Water

Analysis Batch: 154956

Client Sample ID: Duplicate

Prep Type: Total/NA

Prep Batch: 154673

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Dimethylphthalate	<0.49		<0.49		ug/L		NC	20
Di-n-butyl phthalate	<0.97		<0.98		ug/L		NC	20
Di-n-octyl phthalate	<0.097		<0.098		ug/L		NC	20
Endosulfan I (Alpha)	<0.097		<0.098		ug/L		NC	20
Endosulfan II (Beta)	<0.097		<0.098		ug/L		NC	20
Endosulfan sulfate	<0.097		<0.098		ug/L		NC	20
Endrin	<0.0097		<0.0098		ug/L		NC	20
Endrin aldehyde	<0.097		<0.098		ug/L		NC	20
EPTC	<0.097		<0.098		ug/L		NC	20
Fluoranthene	<0.097		<0.098		ug/L		NC	20
Fluorene	<0.049		<0.049		ug/L		NC	20
gamma-Chlordane	<0.049		<0.049		ug/L		NC	20
Heptachlor	<0.0097		<0.0098		ug/L		NC	20
Heptachlor epoxide (isomer B)	<0.0097		<0.0098		ug/L		NC	20
Hexachlorobenzene	<0.049		<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	<0.097		<0.098		ug/L		NC	20
Lindane	<0.0097		<0.0098		ug/L		NC	20
Malathion	<0.097		<0.098		ug/L		NC	20
Methoxychlor	<0.049		<0.049		ug/L		NC	20
Metolachlor	<0.049		<0.049		ug/L		NC	20
Molinate	<0.097		<0.098		ug/L		NC	20
Naphthalene	<0.097		<0.098		ug/L		NC	20
Parathion	<0.097		<0.098		ug/L		NC	20
Pendimethalin (Penoxaline)	<0.097		<0.098		ug/L		NC	20
Phenanthrene	<0.039		<0.039		ug/L		NC	20
Propachlor	<0.049		<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	<0.097		<0.098		ug/L		NC	20
Terbutylazine	<0.097		<0.098		ug/L		NC	20
Thiobencarb	<0.097		<0.098		ug/L		NC	20
Total Permethrin (mixed isomers)	<0.19		<0.20		ug/L		NC	20
trans-Nonachlor	<0.049		<0.049		ug/L		NC	20
Trifluralin	<0.097		<0.098		ug/L		NC	20

Surrogate	DU %Recovery	DU Qualifier	Limits
2-Nitro-m-xylene	91		70 - 130
Perylene-d12	87		70 - 130
Triphenylphosphate	109		70 - 130

QC Sample Results

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

Job ID: 380-152049-1
SDG: Weekly

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

Lab Sample ID: MB 570-576139/1-A
Matrix: Water
Analysis Batch: 581380

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 576139

<i>Tentatively Identified Compound</i>	<i>Est. Result</i>	<i>MB MB Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>RT</i>	<i>CAS No.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>Tentatively Identified Compound</i>	<i>None</i>		<i>ug/L</i>			<i>N/A</i>	<i>05/27/25 15:39</i>	<i>06/09/25 11:32</i>	<i>1</i>
<i>Surrogate</i>	<i>%Recovery</i>	<i>MB MB Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
2,4,6-Tribromophenol (Surr)	69		33 - 139				05/27/25 15:39	06/09/25 11:32	1
2-Fluorobiphenyl (Surr)	87		33 - 126				05/27/25 15:39	06/09/25 11:32	1
2-Fluorophenol (Surr)	58		12 - 120				05/27/25 15:39	06/09/25 11:32	1
Nitrobenzene-d5 (Surr)	87		36 - 120				05/27/25 15:39	06/09/25 11:32	1
Phenol-d6 (Surr)	34		10 - 120				05/27/25 15:39	06/09/25 11:32	1
p-Terphenyl-d14 (Surr)	86		47 - 131				05/27/25 15:39	06/09/25 11:32	1

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

Lab Sample ID: MB 570-576139/1-A
Matrix: Water
Analysis Batch: 576518

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 576139

<i>Analyte</i>	<i>Result</i>	<i>MB MB Qualifier</i>	<i>RL</i>	<i>Unit</i>	<i>D</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1-Methylnaphthalene	<0.20		0.20	ug/L		05/27/25 15:39	05/28/25 16:15	1
2-Methylnaphthalene	<0.20		0.20	ug/L		05/27/25 15:39	05/28/25 16:15	1
Acenaphthene	<0.20		0.20	ug/L		05/27/25 15:39	05/28/25 16:15	1
Acenaphthylene	<0.20		0.20	ug/L		05/27/25 15:39	05/28/25 16:15	1
Anthracene	<0.20		0.20	ug/L		05/27/25 15:39	05/28/25 16:15	1
Benzo[a]anthracene	<0.20		0.20	ug/L		05/27/25 15:39	05/28/25 16:15	1
Benzo[a]pyrene	<0.20		0.20	ug/L		05/27/25 15:39	05/28/25 16:15	1
Benzo[b]fluoranthene	<0.20		0.20	ug/L		05/27/25 15:39	05/28/25 16:15	1
Benzo[g,h,i]perylene	<0.20		0.20	ug/L		05/27/25 15:39	05/28/25 16:15	1
Benzo[k]fluoranthene	<0.20		0.20	ug/L		05/27/25 15:39	05/28/25 16:15	1
Chrysene	<0.20		0.20	ug/L		05/27/25 15:39	05/28/25 16:15	1
Dibenz(a,h)anthracene	<0.20		0.20	ug/L		05/27/25 15:39	05/28/25 16:15	1
Fluoranthene	<0.20		0.20	ug/L		05/27/25 15:39	05/28/25 16:15	1
Fluorene	<0.20		0.20	ug/L		05/27/25 15:39	05/28/25 16:15	1
Indeno[1,2,3-cd]pyrene	<0.20		0.20	ug/L		05/27/25 15:39	05/28/25 16:15	1
Naphthalene	<0.20		0.20	ug/L		05/27/25 15:39	05/28/25 16:15	1
Phenanthrene	<0.20		0.20	ug/L		05/27/25 15:39	05/28/25 16:15	1
Pyrene	<0.20		0.20	ug/L		05/27/25 15:39	05/28/25 16:15	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>MB MB Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
2,4,6-Tribromophenol (Surr)	96		28 - 127			05/27/25 15:39	05/28/25 16:15	1
2-Fluorobiphenyl (Surr)	88		31 - 120			05/27/25 15:39	05/28/25 16:15	1
2-Fluorophenol (Surr)	59		17 - 120			05/27/25 15:39	05/28/25 16:15	1
Nitrobenzene-d5 (Surr)	92		27 - 120			05/27/25 15:39	05/28/25 16:15	1
Phenol-d6 (Surr)	38		10 - 120			05/27/25 15:39	05/28/25 16:15	1
p-Terphenyl-d14 (Surr)	88		45 - 120			05/27/25 15:39	05/28/25 16:15	1

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-152049-1
SDG: Weekly

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

Lab Sample ID: LCS 570-576139/2-A

Matrix: Water

Analysis Batch: 576518

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 576139

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	20.0	17.6		ug/L		88	47 - 120
2-Methylnaphthalene	20.0	19.0		ug/L		95	43 - 120
Acenaphthene	20.0	20.3		ug/L		102	60 - 132
Acenaphthylene	20.0	18.8		ug/L		94	54 - 126
Anthracene	20.0	20.2		ug/L		101	43 - 120
Benzo[a]anthracene	20.0	21.4		ug/L		107	42 - 133
Benzo[a]pyrene	20.0	22.4		ug/L		112	32 - 148
Benzo[b]fluoranthene	20.0	23.0		ug/L		115	42 - 140
Benzo[g,h,i]perylene	20.0	22.4		ug/L		112	1 - 195
Benzo[k]fluoranthene	20.0	21.7		ug/L		109	25 - 146
Chrysene	20.0	20.2		ug/L		101	44 - 140
Dibenz(a,h)anthracene	20.0	23.0		ug/L		115	1 - 200
Fluoranthene	20.0	20.6		ug/L		103	43 - 121
Fluorene	20.0	19.9		ug/L		99	70 - 120
Indeno[1,2,3-cd]pyrene	20.0	23.3		ug/L		117	1 - 151
Naphthalene	20.0	17.1		ug/L		86	36 - 120
Phenanthrene	20.0	19.6		ug/L		98	65 - 120
Pyrene	20.0	21.2		ug/L		106	70 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	90		28 - 127
2-Fluorobiphenyl (Surr)	82		31 - 120
2-Fluorophenol (Surr)	61		17 - 120
Nitrobenzene-d5 (Surr)	73		27 - 120
Phenol-d6 (Surr)	39		10 - 120
p-Terphenyl-d14 (Surr)	90		45 - 120

Lab Sample ID: LCSD 570-576139/3-A

Matrix: Water

Analysis Batch: 576518

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 576139

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	20.0	18.7		ug/L		94	47 - 120	6	20
2-Methylnaphthalene	20.0	20.8		ug/L		104	43 - 120	9	20
Acenaphthene	20.0	21.9		ug/L		110	60 - 132	7	29
Acenaphthylene	20.0	19.8		ug/L		99	54 - 126	5	45
Anthracene	20.0	22.2		ug/L		111	43 - 120	9	40
Benzo[a]anthracene	20.0	23.6		ug/L		118	42 - 133	10	32
Benzo[a]pyrene	20.0	24.5		ug/L		122	32 - 148	9	43
Benzo[b]fluoranthene	20.0	25.0		ug/L		125	42 - 140	9	43
Benzo[g,h,i]perylene	20.0	24.6		ug/L		123	1 - 195	10	61
Benzo[k]fluoranthene	20.0	23.2		ug/L		116	25 - 146	7	38
Chrysene	20.0	22.3		ug/L		111	44 - 140	9	53
Dibenz(a,h)anthracene	20.0	24.8		ug/L		124	1 - 200	8	75
Fluoranthene	20.0	21.5		ug/L		108	43 - 121	4	40
Fluorene	20.0	20.8		ug/L		104	70 - 120	4	23
Indeno[1,2,3-cd]pyrene	20.0	25.6		ug/L		128	1 - 151	9	60
Naphthalene	20.0	18.7		ug/L		93	36 - 120	9	39

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-152049-1
SDG: Weekly

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

Lab Sample ID: LCSD 570-576139/3-A

Matrix: Water

Analysis Batch: 576518

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 576139

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Phenanthrene	20.0	21.2		ug/L		106	65 - 120	8	24
Pyrene	20.0	24.3	*+	ug/L		122	70 - 120	14	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	97		28 - 127
2-Fluorobiphenyl (Surr)	91		31 - 120
2-Fluorophenol (Surr)	64		17 - 120
Nitrobenzene-d5 (Surr)	77		27 - 120
Phenol-d6 (Surr)	42		10 - 120
p-Terphenyl-d14 (Surr)	97		45 - 120

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

Lab Sample ID: MB 570-576992/6

Matrix: Water

Analysis Batch: 576992

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	<10		10	ug/L			05/29/25 12:24	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		38 - 134		05/29/25 12:24	1

Lab Sample ID: LCS 570-576992/4

Matrix: Water

Analysis Batch: 576992

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (C4-C13)	400	346		ug/L		87	78 - 120

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

Lab Sample ID: LCSD 570-576992/5

Matrix: Water

Analysis Batch: 576992

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (C4-C13)	400	355		ug/L		89	78 - 120	2	10

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	88		38 - 134

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-152049-1
SDG: Weekly

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

Lab Sample ID: MRL 570-576992/3

Matrix: Water

Analysis Batch: 576992

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (C4-C13)			10.0	10.6		ug/L		106	50 - 150		
Surrogate			MRL %Recovery	MRL Qualifier	Limits						
4-Bromofluorobenzene (Surr)			83		38 - 134						

Lab Sample ID: 380-151627-B-1 MS

Matrix: Water

Analysis Batch: 576992

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	351		ug/L	-	88	68 - 122
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	86		38 - 134						

Lab Sample ID: 380-151627-B-1 MSD

Matrix: Water

Analysis Batch: 576992

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	347		ug/L	-	87	68 - 122	1	18
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	86		38 - 134								

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

Lab Sample ID: MB 570-576069/1-A

Matrix: Water

Analysis Batch: 578119

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 576069

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Diesel Range Organics (C10-C24)	<25		25	ug/L		05/27/25 13:42	06/01/25 11:56	1
Motor Oil Range Organics [C24-C36]	<25		25	ug/L		05/27/25 13:42	06/01/25 11:56	1
C8-C18	<25		25	ug/L		05/27/25 13:42	06/01/25 11:56	1
Surrogate	MB	MB	Limits			Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier						
n-Octacosane (Surr)	77		60 - 130			05/27/25 13:42	06/01/25 11:56	1

Lab Sample ID: LCS 570-576069/2-A

Matrix: Water

Analysis Batch: 578119

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 576069

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
C10-C28	1600	1660		ug/L		104	56 - 127

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-152049-1
SDG: Weekly

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

Lab Sample ID: LCS 570-576069/2-A

Matrix: Water

Analysis Batch: 578119

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 576069

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
n-Octacosane (Surr)	83		60 - 130

Lab Sample ID: LCSD 570-576069/3-A

Matrix: Water

Analysis Batch: 578119

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 576069

Replicate Data: C10-C28								Replicate Data: C10-C28			
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limits
C10-C28			1600	1580		ug/L		98	56 - 127	5	23

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
n-Octacosane (Surr)	80		60 - 130

Lab Sample ID: MRL 570-576069/4-A

Matrix: Water

Analysis Batch: 578119

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 576069

Top Bottom of 110							Top Bottom of 1000				
Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
C10-C28			0.0200	0.0243	J	mg/L		122	50 - 150		

	MRL	MRL	
Surrogate	%Recovery	Qualifier	Limits
n-Octacosane (Surr)	67		60 - 130

QC Association Summary

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

Job ID: 380-152049-1
SDG: Weekly

GC/MS Semi VOA

Prep Batch: 154673

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-152049-1	Halawa Shaft Viewing Pool	Total/NA	Drinking Water	525.2	
MB 380-154673/21-A	Method Blank	Total/NA	Water	525.2	
LCS 380-154673/23-A	Lab Control Sample	Total/NA	Water	525.2	
MRL 380-154673/22-A	Lab Control Sample	Total/NA	Water	525.2	
380-151960-AD-3-A MS	Matrix Spike	Total/NA	Water	525.2	
380-151960-AD-4-A DU	Duplicate	Total/NA	Water	525.2	

Analysis Batch: 154956

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-152049-1	Halawa Shaft Viewing Pool	Total/NA	Drinking Water	525.2	154673
MB 380-154673/21-A	Method Blank	Total/NA	Water	525.2	154673
LCS 380-154673/23-A	Lab Control Sample	Total/NA	Water	525.2	154673
MRL 380-154673/22-A	Lab Control Sample	Total/NA	Water	525.2	154673
380-151960-AD-3-A MS	Matrix Spike	Total/NA	Water	525.2	154673
380-151960-AD-4-A DU	Duplicate	Total/NA	Water	525.2	154673

Prep Batch: 576139

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-152049-1	Halawa Shaft Viewing Pool	Total/NA	Drinking Water	625.1	
MB 570-576139/1-A	Method Blank	Total/NA	Water	625.1	
LCS 570-576139/2-A	Lab Control Sample	Total/NA	Water	625.1	
LCSD 570-576139/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	

Analysis Batch: 576518

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-152049-1	Halawa Shaft Viewing Pool	Total/NA	Drinking Water	625.1 SIM	576139
MB 570-576139/1-A	Method Blank	Total/NA	Water	625.1 SIM	576139
LCS 570-576139/2-A	Lab Control Sample	Total/NA	Water	625.1 SIM	576139
LCSD 570-576139/3-A	Lab Control Sample Dup	Total/NA	Water	625.1 SIM	576139

Analysis Batch: 581380

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-152049-1	Halawa Shaft Viewing Pool	Total/NA	Drinking Water	625.1	576139
MB 570-576139/1-A	Method Blank	Total/NA	Water	625.1	576139

GC VOA

Analysis Batch: 576992

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-152049-1	Halawa Shaft Viewing Pool	Total/NA	Drinking Water	8015B GRO LL	
380-152049-2	TRIP BLANK	Total/NA	Water	8015B GRO LL	
MB 570-576992/6	Method Blank	Total/NA	Water	8015B GRO LL	
LCS 570-576992/4	Lab Control Sample	Total/NA	Water	8015B GRO LL	
LCSD 570-576992/5	Lab Control Sample Dup	Total/NA	Water	8015B GRO LL	
MRL 570-576992/3	Lab Control Sample	Total/NA	Water	8015B GRO LL	
380-151627-B-1 MS	Matrix Spike	Total/NA	Water	8015B GRO LL	
380-151627-B-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8015B GRO LL	

QC Association Summary

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

Job ID: 380-152049-1
SDG: Weekly

GC Semi VOA

Prep Batch: 576069

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-152049-1	Halawa Shaft Viewing Pool	Total/NA	Drinking Water	3510C	
MB 570-576069/1-A	Method Blank	Total/NA	Water	3510C	
LCS 570-576069/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 570-576069/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MRL 570-576069/4-A	Lab Control Sample	Total/NA	Water	3510C	

Analysis Batch: 578119

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-152049-1	Halawa Shaft Viewing Pool	Total/NA	Drinking Water	8015B	576069
MB 570-576069/1-A	Method Blank	Total/NA	Water	8015B	576069
LCS 570-576069/2-A	Lab Control Sample	Total/NA	Water	8015B	576069
LCSD 570-576069/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	576069
MRL 570-576069/4-A	Lab Control Sample	Total/NA	Water	8015B	576069

Lab Chronicle

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

Job ID: 380-152049-1
SDG: Weekly

Client Sample ID: Halawa Shaft Viewing Pool

Date Collected: 05/20/25 10:00

Date Received: 05/22/25 10:06

Lab Sample ID: 380-152049-1

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			154673	KRD3	EA POM	05/28/25 07:58
Total/NA	Analysis	525.2		1	154956	UPAC	EA POM	05/29/25 13:41
Total/NA	Prep	625.1			576139	OAJ3	EET CAL 4	05/27/25 15:39
Total/NA	Analysis	625.1		1	581380	CG	EET CAL 4	06/09/25 11:57
Total/NA	Prep	625.1			576139	OAJ3	EET CAL 4	05/27/25 15:39
Total/NA	Analysis	625.1 SIM		1	576518	J7WE	EET CAL 4	05/28/25 18:07
Total/NA	Analysis	8015B GRO LL		1	576992	A9VE	EET CAL 4	05/30/25 00:51
Total/NA	Prep	3510C			576069	TVD6	EET CAL 4	05/27/25 13:42
Total/NA	Analysis	8015B		1	578119	H6FE	EET CAL 4	06/01/25 13:24

Client Sample ID: TRIP BLANK

Date Collected: 05/20/25 10:00

Date Received: 05/22/25 10:06

Lab Sample ID: 380-152049-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015B GRO LL		1	576992	A9VE	EET CAL 4	05/29/25 23:37

Laboratory References:

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

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

Accreditation/Certification Summary

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

Job ID: 380-152049-1
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: 380-152049-1
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: 380-152049-1
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: 380-152049-1
SDG: Weekly

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	PWSID Number
380-152049-1	Halawa Shaft Viewing Pool	Drinking Water	05/20/25 10:00	05/22/25 10:06	HI0000331
380-152049-2	TRIP BLANK	Water	05/20/25 10:00	05/22/25 10:06	

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Chain of Custody Record



Client Information		Sampler Ryan Greer		Lab PM Arada, Rachelle		Carrier Tracking No(s)		COC No: 380-28005-2757 1	
Client Contact Kirk Iwamoto		Phone: 808-748-5840		E-Mail: Rachelle.Arada@et.eurofins.com		State of Origin: HI		Page: Page 1 of 1	
Company City & County of Honolulu		PWSID:		Analysis Requested		Job #:			
Address: 630 South Beretania Street Chemistry Lab		Due Date Requested:		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		Preservation Codes: R - NaThioSO4 RA - NaThioHCl Q - Na2SO3 QA - Na2SO3/HCl Y - Trizma I - NH4 Acetate	
City: Honolulu		TAT Requested (days):		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)	
State Zip: HI, 96843		Compliance Project: ☐ Yes ☐ No		Matrix (W=water, S=solid, O=on-site, BT=Tissue, AA=Air)		Preservation Code:		Matrix	
Phone: 808-748-5840(Tel)		PO #: C20525101 exp 05312023		Sample Type (C=Comp, G=grab)		Sample Time		Sample Date	
Email: KIWAMOTO@hbws.org		WO #:		Sample Type (C=Comp, G=grab)		Sample Time		Sample Date	
Project Name: RED-HILL/HBWS Sites		Project #: 38001111		Sample Type (C=Comp, G=grab)		Sample Time		Sample Date	
Event Desc: RUSH Weekly Red Hill		SSOW#:		Sample Type (C=Comp, G=grab)		Sample Time		Sample Date	
Site: Hawaii				Sample Type (C=Comp, G=grab)		Sample Time		Sample Date	
Sample Identification		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Matrix	
Halawa Shaft Viewing Pool		5/20/25		1000		G		Water	
TRIP BLANK		5/20/25		1000		G		Water	
Possible Hazard Identification		☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological		Deliverable Requested I, II, III, IV, Other (specify)		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months	
Empty Kit Relinquished by:		Date/Time:		Date/Time:		Date/Time:		Date/Time:	
Relinquished by:		5/21/25 1300		HBWS		Received by:		Date/Time: 5/22/25 10:06	
Relinquished by:						Received by:		Date/Time:	
Relinquished by:						Received by:		Date/Time:	
Custody Seals Intact: ☐ Yes ☐ No		Custody Seal No.		Color Temperature(s) °C and Other Remarks: FSA 01.9°-0.0°-1.9°/20.6°-0.0°-0.6°		GEL		F002EJ	

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

Chain of Custody Record



Loc: 380
152049

[illegible]

Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-152049-1

SDG Number: Weekly

Login Number: 152049

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: 380-152049-1

SDG Number: Weekly

Login Number: 152049

List Number: 2

Creator: Khana, Piyush

List Source: Eurofins Calscience

List Creation: 05/23/25 12:50 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	0.9
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	