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ANALYTICAL REPORT

PREPARED FOR

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City & County of Honolulu
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JOB DESCRIPTION

RED-HILL
Weekly
RUSH Weekly Red Hill

JOB NUMBER

380-153634-1

Eurofins Eaton Analytical Pomona

Job Notes

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

Compliance Statement

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

Authorization



Authorized for release by
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Definitions/Glossary

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

Job ID: 380-153634-1
SDG: Weekly

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA TICs

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

GC 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
S1+	Surrogate recovery exceeds control limits, high biased.

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: 380-153634-1

Job ID: 380-153634-1

Eurofins Eaton Analytical Pomona

Job Narrative 380-153634-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 6/4/2025 9:47 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 1.4°C and 3.0°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

Method 8015B_DRO_LL_CS: Surrogate recovery for the following sample was outside the upper control limit: AIEA GULCH WELLS PUMP 1 (331-201-TP071) (380-153634-1). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

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

Detection Summary

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

Job ID: 380-153634-1
SDG: Weekly

**Client Sample ID: AIEA GULCH WELLS PUMP 1
(331-201-TP071)**
PWSID Number: HI0000331

Lab Sample ID: 380-153634-1

No Detections.

**Client Sample ID: TB: AIEA GULCH WELLS PUMP 1
(331-201-TP071)**

Lab Sample ID: 380-153634-2

No Detections.

**Client Sample ID: AIEA GULCH WELLS PUMP 2
(331-202-TP072)**
PWSID Number: HI0000331

Lab Sample ID: 380-153634-3

No Detections.

**Client Sample ID: TB: AIEA GULCH WELLS PUMP 2
(331-202-TP072)**

Lab Sample ID: 380-153634-4

No Detections.

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This Detection Summary does not include radiochemical test results.

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-153634-1
SDG: Weekly

**Client Sample ID: AIEA GULCH WELLS PUMP 1
(331-201-TP071)**

Lab Sample ID: 380-153634-1

Date Collected: 06/02/25 10:15

Matrix: Drinking Water

Date Received: 06/04/25 09:47

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		06/05/25 07:54	06/06/25 15:34	1
2,4'-DDD	<0.097		0.097	ug/L		06/05/25 07:54	06/06/25 15:34	1
2,4'-DDE	<0.097		0.097	ug/L		06/05/25 07:54	06/06/25 15:34	1
2,4'-DDT	<0.097		0.097	ug/L		06/05/25 07:54	06/06/25 15:34	1
2,4-Dinitrotoluene	<0.097		0.097	ug/L		06/05/25 07:54	06/06/25 15:34	1
2,6-Dinitrotoluene	<0.097		0.097	ug/L		06/05/25 07:54	06/06/25 15:34	1
2-Methylnaphthalene	<0.097		0.097	ug/L		06/05/25 07:54	06/06/25 15:34	1
4,4'-DDD	<0.097		0.097	ug/L		06/05/25 07:54	06/06/25 15:34	1
4,4'-DDE	<0.097		0.097	ug/L		06/05/25 07:54	06/06/25 15:34	1
4,4'-DDT	<0.097		0.097	ug/L		06/05/25 07:54	06/06/25 15:34	1
Acenaphthene	<0.097		0.097	ug/L		06/05/25 07:54	06/06/25 15:34	1
Acenaphthylene	<0.097		0.097	ug/L		06/05/25 07:54	06/06/25 15:34	1
Acetochlor	<0.097		0.097	ug/L		06/05/25 07:54	06/06/25 15:34	1
Alachlor	<0.048		0.048	ug/L		06/05/25 07:54	06/06/25 15:34	1
alpha-BHC	<0.097		0.097	ug/L		06/05/25 07:54	06/06/25 15:34	1
alpha-Chlordane	<0.048		0.048	ug/L		06/05/25 07:54	06/06/25 15:34	1
Anthracene	<0.019		0.019	ug/L		06/05/25 07:54	06/06/25 15:34	1
Atrazine	<0.048		0.048	ug/L		06/05/25 07:54	06/06/25 15:34	1
Benz(a)anthracene	<0.048		0.048	ug/L		06/05/25 07:54	06/06/25 15:34	1
Benzo[a]pyrene	<0.019		0.019	ug/L		06/05/25 07:54	06/06/25 15:34	1
Benzo[b]fluoranthene	<0.019		0.019	ug/L		06/05/25 07:54	06/06/25 15:34	1
Benzo[g,h,i]perylene	<0.048		0.048	ug/L		06/05/25 07:54	06/06/25 15:34	1
Benzo[k]fluoranthene	<0.019		0.019	ug/L		06/05/25 07:54	06/06/25 15:34	1
beta-BHC	<0.097		0.097	ug/L		06/05/25 07:54	06/06/25 15:34	1
Bis(2-ethylhexyl) phthalate	<0.58		0.58	ug/L		06/05/25 07:54	06/06/25 15:34	1
Bromacil	<0.097		0.097	ug/L		06/05/25 07:54	06/06/25 15:34	1
Butachlor	<0.048		0.048	ug/L		06/05/25 07:54	06/06/25 15:34	1
Butylbenzylphthalate	<0.48		0.48	ug/L		06/05/25 07:54	06/06/25 15:34	1
Chlorobenzilate	<0.097		0.097	ug/L		06/05/25 07:54	06/06/25 15:34	1
Chloroneb	<0.097		0.097	ug/L		06/05/25 07:54	06/06/25 15:34	1
Chlorothalonil (Draconil, Bravo)	<0.097		0.097	ug/L		06/05/25 07:54	06/06/25 15:34	1
Chlorpyrifos	<0.048		0.048	ug/L		06/05/25 07:54	06/06/25 15:34	1
Chrysene	<0.019		0.019	ug/L		06/05/25 07:54	06/06/25 15:34	1
delta-BHC	<0.097		0.097	ug/L		06/05/25 07:54	06/06/25 15:34	1
Di(2-ethylhexyl)adipate	<0.58		0.58	ug/L		06/05/25 07:54	06/06/25 15:34	1
Dibenz(a,h)anthracene	<0.048		0.048	ug/L		06/05/25 07:54	06/06/25 15:34	1
Diclorvos (DDVP)	<0.048		0.048	ug/L		06/05/25 07:54	06/06/25 15:34	1
Dieldrin	<0.0097		0.0097	ug/L		06/05/25 07:54	06/06/25 15:34	1
Diethylphthalate	<0.48		0.48	ug/L		06/05/25 07:54	06/06/25 15:34	1
Dimethylphthalate	<0.48		0.48	ug/L		06/05/25 07:54	06/06/25 15:34	1
Di-n-butyl phthalate	<0.97		0.97	ug/L		06/05/25 07:54	06/06/25 15:34	1
Di-n-octyl phthalate	<0.097		0.097	ug/L		06/05/25 07:54	06/06/25 15:34	1
Endosulfan I (Alpha)	<0.097		0.097	ug/L		06/05/25 07:54	06/06/25 15:34	1
Endosulfan II (Beta)	<0.097		0.097	ug/L		06/05/25 07:54	06/06/25 15:34	1
Endosulfan sulfate	<0.097		0.097	ug/L		06/05/25 07:54	06/06/25 15:34	1
Endrin	<0.0097		0.0097	ug/L		06/05/25 07:54	06/06/25 15:34	1
Endrin aldehyde	<0.097		0.097	ug/L		06/05/25 07:54	06/06/25 15:34	1
EPTC	<0.097		0.097	ug/L		06/05/25 07:54	06/06/25 15:34	1

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Client Sample Results

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

Job ID: 380-153634-1
SDG: Weekly

**Client Sample ID: AIEA GULCH WELLS PUMP 1
(331-201-TP071)**

Lab Sample ID: 380-153634-1

Date Collected: 06/02/25 10:15

Matrix: Drinking Water

Date Received: 06/04/25 09:47

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		06/05/25 07:54	06/06/25 15:34	1
Fluorene	<0.048		0.048	ug/L		06/05/25 07:54	06/06/25 15:34	1
gamma-Chlordane	<0.048		0.048	ug/L		06/05/25 07:54	06/06/25 15:34	1
Heptachlor	<0.0097		0.0097	ug/L		06/05/25 07:54	06/06/25 15:34	1
Heptachlor epoxide (isomer B)	<0.0097		0.0097	ug/L		06/05/25 07:54	06/06/25 15:34	1
Hexachlorobenzene	<0.048		0.048	ug/L		06/05/25 07:54	06/06/25 15:34	1
Hexachlorocyclopentadiene	<0.048		0.048	ug/L		06/05/25 07:54	06/06/25 15:34	1
Indeno[1,2,3-cd]pyrene	<0.048		0.048	ug/L		06/05/25 07:54	06/06/25 15:34	1
Isophorone	<0.097		0.097	ug/L		06/05/25 07:54	06/06/25 15:34	1
Lindane	<0.0097		0.0097	ug/L		06/05/25 07:54	06/06/25 15:34	1
Malathion	<0.097		0.097	ug/L		06/05/25 07:54	06/06/25 15:34	1
Methoxychlor	<0.048		0.048	ug/L		06/05/25 07:54	06/06/25 15:34	1
Metolachlor	<0.048		0.048	ug/L		06/05/25 07:54	06/06/25 15:34	1
Molinate	<0.097		0.097	ug/L		06/05/25 07:54	06/06/25 15:34	1
Naphthalene	<0.097		0.097	ug/L		06/05/25 07:54	06/06/25 15:34	1
Parathion	<0.097		0.097	ug/L		06/05/25 07:54	06/06/25 15:34	1
Pendimethalin (Penoxaline)	<0.097		0.097	ug/L		06/05/25 07:54	06/06/25 15:34	1
Phenanthrene	<0.039		0.039	ug/L		06/05/25 07:54	06/06/25 15:34	1
Propachlor	<0.048		0.048	ug/L		06/05/25 07:54	06/06/25 15:34	1
Pyrene	<0.048		0.048	ug/L		06/05/25 07:54	06/06/25 15:34	1
Simazine	<0.048		0.048	ug/L		06/05/25 07:54	06/06/25 15:34	1
Terbacil	<0.097		0.097	ug/L		06/05/25 07:54	06/06/25 15:34	1
Terbutylazine	<0.097		0.097	ug/L		06/05/25 07:54	06/06/25 15:34	1
Thiobencarb	<0.097		0.097	ug/L		06/05/25 07:54	06/06/25 15:34	1
Total Permethrin (mixed isomers)	<0.19		0.19	ug/L		06/05/25 07:54	06/06/25 15:34	1
trans-Nonachlor	<0.048		0.048	ug/L		06/05/25 07:54	06/06/25 15:34	1
Trifluralin	<0.097		0.097	ug/L		06/05/25 07:54	06/06/25 15:34	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	06/05/25 07:54	06/06/25 15:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	92		70 - 130	06/05/25 07:54	06/06/25 15:34	1
Perylene-d12	90		70 - 130	06/05/25 07:54	06/06/25 15:34	1
Triphenylphosphate	107		70 - 130	06/05/25 07:54	06/06/25 15:34	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.19		0.19	ug/L		06/05/25 04:36	06/13/25 02:58	1
2-Methylnaphthalene	<0.19		0.19	ug/L		06/05/25 04:36	06/13/25 02:58	1
Acenaphthene	<0.19		0.19	ug/L		06/05/25 04:36	06/13/25 02:58	1
Acenaphthylene	<0.19		0.19	ug/L		06/05/25 04:36	06/13/25 02:58	1
Anthracene	<0.19		0.19	ug/L		06/05/25 04:36	06/13/25 02:58	1
Benzo[a]anthracene	<0.19		0.19	ug/L		06/05/25 04:36	06/13/25 02:58	1
Benzo[a]pyrene	<0.19		0.19	ug/L		06/05/25 04:36	06/13/25 02:58	1
Benzo[b]fluoranthene	<0.19		0.19	ug/L		06/05/25 04:36	06/13/25 02:58	1
Benzo[g,h,i]perylene	<0.19		0.19	ug/L		06/05/25 04:36	06/13/25 02:58	1
Benzo[k]fluoranthene	<0.19		0.19	ug/L		06/05/25 04:36	06/13/25 02:58	1
Chrysene	<0.19		0.19	ug/L		06/05/25 04:36	06/13/25 02:58	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-153634-1
SDG: Weekly

**Client Sample ID: AIEA GULCH WELLS PUMP 1
(331-201-TP071)**

Lab Sample ID: 380-153634-1

Date Collected: 06/02/25 10:15
Date Received: 06/04/25 09:47

Matrix: Drinking Water
PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	<0.19		0.19	ug/L		06/05/25 04:36	06/13/25 02:58	1
Fluoranthene	<0.19		0.19	ug/L		06/05/25 04:36	06/13/25 02:58	1
Fluorene	<0.19		0.19	ug/L		06/05/25 04:36	06/13/25 02:58	1
Indeno[1,2,3-cd]pyrene	<0.19		0.19	ug/L		06/05/25 04:36	06/13/25 02:58	1
Naphthalene	<0.19		0.19	ug/L		06/05/25 04:36	06/13/25 02:58	1
Phenanthrene	<0.19		0.19	ug/L		06/05/25 04:36	06/13/25 02:58	1
Pyrene	<0.19		0.19	ug/L		06/05/25 04:36	06/13/25 02:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	63		28 - 127	06/05/25 04:36	06/13/25 02:58	1
2-Fluorobiphenyl (Surr)	52		31 - 120	06/05/25 04:36	06/13/25 02:58	1
2-Fluorophenol (Surr)	30		17 - 120	06/05/25 04:36	06/13/25 02:58	1
Nitrobenzene-d5 (Surr)	57		27 - 120	06/05/25 04:36	06/13/25 02:58	1
Phenol-d6 (Surr)	19		10 - 120	06/05/25 04:36	06/13/25 02:58	1
p-Terphenyl-d14 (Surr)	76		45 - 120	06/05/25 04:36	06/13/25 02:58	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	06/05/25 04:36	06/17/25 20:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	45		33 - 139	06/05/25 04:36	06/17/25 20:35	1
2-Fluorobiphenyl (Surr)	49		33 - 126	06/05/25 04:36	06/17/25 20:35	1
2-Fluorophenol (Surr)	26		12 - 120	06/05/25 04:36	06/17/25 20:35	1
Nitrobenzene-d5 (Surr)	52		36 - 120	06/05/25 04:36	06/17/25 20:35	1
Phenol-d6 (Surr)	15		10 - 120	06/05/25 04:36	06/17/25 20:35	1
p-Terphenyl-d14 (Surr)	70		47 - 131	06/05/25 04:36	06/17/25 20:35	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	<10		10	ug/L			06/11/25 19:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79		38 - 134		06/11/25 19:32	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		06/08/25 09:03	06/16/25 22:12	1
Motor Oil Range Organics [C24-C36]	<25		25	ug/L		06/08/25 09:03	06/16/25 22:12	1
C8-C18	<25		25	ug/L		06/08/25 09:03	06/16/25 22:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	134	S1+	60 - 130	06/08/25 09:03	06/16/25 22:12	1

Client Sample Results

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

Job ID: 380-153634-1
SDG: Weekly

**Client Sample ID: TB: AIEA GULCH WELLS PUMP 1
(331-201-TP071)**

Lab Sample ID: 380-153634-2

Date Collected: 06/02/25 10:15

Matrix: Drinking Water

Date Received: 06/04/25 09:47

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	<10		10	ug/L			06/11/25 13:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		38 - 134				06/11/25 13:32	1

**Client Sample ID: AIEA GULCH WELLS PUMP 2
(331-202-TP072)**

Lab Sample ID: 380-153634-3

Date Collected: 06/02/25 10:25

Matrix: Water

Date Received: 06/04/25 09:47

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		06/05/25 07:54	06/06/25 15:55	1
2,4'-DDD	<0.097		0.097	ug/L		06/05/25 07:54	06/06/25 15:55	1
2,4'-DDE	<0.097		0.097	ug/L		06/05/25 07:54	06/06/25 15:55	1
2,4'-DDT	<0.097		0.097	ug/L		06/05/25 07:54	06/06/25 15:55	1
2,4-Dinitrotoluene	<0.097		0.097	ug/L		06/05/25 07:54	06/06/25 15:55	1
2,6-Dinitrotoluene	<0.097		0.097	ug/L		06/05/25 07:54	06/06/25 15:55	1
2-Methylnaphthalene	<0.097		0.097	ug/L		06/05/25 07:54	06/06/25 15:55	1
4,4'-DDD	<0.097		0.097	ug/L		06/05/25 07:54	06/06/25 15:55	1
4,4'-DDE	<0.097		0.097	ug/L		06/05/25 07:54	06/06/25 15:55	1
4,4'-DDT	<0.097		0.097	ug/L		06/05/25 07:54	06/06/25 15:55	1
Acenaphthene	<0.097		0.097	ug/L		06/05/25 07:54	06/06/25 15:55	1
Acenaphthylene	<0.097		0.097	ug/L		06/05/25 07:54	06/06/25 15:55	1
Acetochlor	<0.097		0.097	ug/L		06/05/25 07:54	06/06/25 15:55	1
Alachlor	<0.048		0.048	ug/L		06/05/25 07:54	06/06/25 15:55	1
alpha-BHC	<0.097		0.097	ug/L		06/05/25 07:54	06/06/25 15:55	1
alpha-Chlordane	<0.048		0.048	ug/L		06/05/25 07:54	06/06/25 15:55	1
Anthracene	<0.019		0.019	ug/L		06/05/25 07:54	06/06/25 15:55	1
Atrazine	<0.048		0.048	ug/L		06/05/25 07:54	06/06/25 15:55	1
Benz(a)anthracene	<0.048		0.048	ug/L		06/05/25 07:54	06/06/25 15:55	1
Benzo[a]pyrene	<0.019		0.019	ug/L		06/05/25 07:54	06/06/25 15:55	1
Benzo[b]fluoranthene	<0.019		0.019	ug/L		06/05/25 07:54	06/06/25 15:55	1
Benzo[g,h,i]perylene	<0.048		0.048	ug/L		06/05/25 07:54	06/06/25 15:55	1
Benzo[k]fluoranthene	<0.019		0.019	ug/L		06/05/25 07:54	06/06/25 15:55	1
beta-BHC	<0.097		0.097	ug/L		06/05/25 07:54	06/06/25 15:55	1
Bis(2-ethylhexyl) phthalate	<0.58		0.58	ug/L		06/05/25 07:54	06/06/25 15:55	1
Bromacil	<0.097		0.097	ug/L		06/05/25 07:54	06/06/25 15:55	1
Butachlor	<0.048		0.048	ug/L		06/05/25 07:54	06/06/25 15:55	1
Butylbenzylphthalate	<0.48		0.48	ug/L		06/05/25 07:54	06/06/25 15:55	1
Chlorobenzilate	<0.097		0.097	ug/L		06/05/25 07:54	06/06/25 15:55	1
Chloroneb	<0.097		0.097	ug/L		06/05/25 07:54	06/06/25 15:55	1
Chlorothalonil (Draconil, Bravo)	<0.097		0.097	ug/L		06/05/25 07:54	06/06/25 15:55	1
Chlorpyrifos	<0.048		0.048	ug/L		06/05/25 07:54	06/06/25 15:55	1
Chrysene	<0.019		0.019	ug/L		06/05/25 07:54	06/06/25 15:55	1
delta-BHC	<0.097		0.097	ug/L		06/05/25 07:54	06/06/25 15:55	1
Di(2-ethylhexyl)adipate	<0.58		0.58	ug/L		06/05/25 07:54	06/06/25 15:55	1
Dibenz(a,h)anthracene	<0.048		0.048	ug/L		06/05/25 07:54	06/06/25 15:55	1
Diclorvos (DDVP)	<0.048		0.048	ug/L		06/05/25 07:54	06/06/25 15:55	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-153634-1
SDG: Weekly

**Client Sample ID: AIEA GULCH WELLS PUMP 2
(331-202-TP072)**

Lab Sample ID: 380-153634-3

Date Collected: 06/02/25 10:25

Matrix: Water

Date Received: 06/04/25 09:47

PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dieldrin	<0.0097		0.0097	ug/L		06/05/25 07:54	06/06/25 15:55	1
Diethylphthalate	<0.48		0.48	ug/L		06/05/25 07:54	06/06/25 15:55	1
Dimethylphthalate	<0.48		0.48	ug/L		06/05/25 07:54	06/06/25 15:55	1
Di-n-butyl phthalate	<0.97		0.97	ug/L		06/05/25 07:54	06/06/25 15:55	1
Di-n-octyl phthalate	<0.097		0.097	ug/L		06/05/25 07:54	06/06/25 15:55	1
Endosulfan I (Alpha)	<0.097		0.097	ug/L		06/05/25 07:54	06/06/25 15:55	1
Endosulfan II (Beta)	<0.097		0.097	ug/L		06/05/25 07:54	06/06/25 15:55	1
Endosulfan sulfate	<0.097		0.097	ug/L		06/05/25 07:54	06/06/25 15:55	1
Endrin	<0.0097		0.0097	ug/L		06/05/25 07:54	06/06/25 15:55	1
Endrin aldehyde	<0.097		0.097	ug/L		06/05/25 07:54	06/06/25 15:55	1
EPTC	<0.097		0.097	ug/L		06/05/25 07:54	06/06/25 15:55	1
Fluoranthene	<0.097		0.097	ug/L		06/05/25 07:54	06/06/25 15:55	1
Fluorene	<0.048		0.048	ug/L		06/05/25 07:54	06/06/25 15:55	1
gamma-Chlordane	<0.048		0.048	ug/L		06/05/25 07:54	06/06/25 15:55	1
Heptachlor	<0.0097		0.0097	ug/L		06/05/25 07:54	06/06/25 15:55	1
Heptachlor epoxide (isomer B)	<0.0097		0.0097	ug/L		06/05/25 07:54	06/06/25 15:55	1
Hexachlorobenzene	<0.048		0.048	ug/L		06/05/25 07:54	06/06/25 15:55	1
Hexachlorocyclopentadiene	<0.048		0.048	ug/L		06/05/25 07:54	06/06/25 15:55	1
Indeno[1,2,3-cd]pyrene	<0.048		0.048	ug/L		06/05/25 07:54	06/06/25 15:55	1
Isophorone	<0.097		0.097	ug/L		06/05/25 07:54	06/06/25 15:55	1
Lindane	<0.0097		0.0097	ug/L		06/05/25 07:54	06/06/25 15:55	1
Malathion	<0.097		0.097	ug/L		06/05/25 07:54	06/06/25 15:55	1
Methoxychlor	<0.048		0.048	ug/L		06/05/25 07:54	06/06/25 15:55	1
Metolachlor	<0.048		0.048	ug/L		06/05/25 07:54	06/06/25 15:55	1
Molinate	<0.097		0.097	ug/L		06/05/25 07:54	06/06/25 15:55	1
Naphthalene	<0.097		0.097	ug/L		06/05/25 07:54	06/06/25 15:55	1
Parathion	<0.097		0.097	ug/L		06/05/25 07:54	06/06/25 15:55	1
Pendimethalin (Penoxaline)	<0.097		0.097	ug/L		06/05/25 07:54	06/06/25 15:55	1
Phenanthrene	<0.039		0.039	ug/L		06/05/25 07:54	06/06/25 15:55	1
Propachlor	<0.048		0.048	ug/L		06/05/25 07:54	06/06/25 15:55	1
Pyrene	<0.048		0.048	ug/L		06/05/25 07:54	06/06/25 15:55	1
Simazine	<0.048		0.048	ug/L		06/05/25 07:54	06/06/25 15:55	1
Terbacil	<0.097		0.097	ug/L		06/05/25 07:54	06/06/25 15:55	1
Terbutylazine	<0.097		0.097	ug/L		06/05/25 07:54	06/06/25 15:55	1
Thiobencarb	<0.097		0.097	ug/L		06/05/25 07:54	06/06/25 15:55	1
Total Permethrin (mixed isomers)	<0.19		0.19	ug/L		06/05/25 07:54	06/06/25 15:55	1
trans-Nonachlor	<0.048		0.048	ug/L		06/05/25 07:54	06/06/25 15:55	1
Trifluralin	<0.097		0.097	ug/L		06/05/25 07:54	06/06/25 15:55	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	06/05/25 07:54	06/06/25 15:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	91		70 - 130	06/05/25 07:54	06/06/25 15:55	1
Perylene-d12	93		70 - 130	06/05/25 07:54	06/06/25 15:55	1
Triphenylphosphate	103		70 - 130	06/05/25 07:54	06/06/25 15:55	1

Client Sample Results

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

Job ID: 380-153634-1
SDG: Weekly

**Client Sample ID: AIEA GULCH WELLS PUMP 2
(331-202-TP072)**

Lab Sample ID: 380-153634-3

Date Collected: 06/02/25 10:25

Matrix: Water

Date Received: 06/04/25 09:47

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		06/05/25 04:36	06/13/25 03:20	1
2-Methylnaphthalene	<0.19		0.19	ug/L		06/05/25 04:36	06/13/25 03:20	1
Acenaphthene	<0.19		0.19	ug/L		06/05/25 04:36	06/13/25 03:20	1
Acenaphthylene	<0.19		0.19	ug/L		06/05/25 04:36	06/13/25 03:20	1
Anthracene	<0.19		0.19	ug/L		06/05/25 04:36	06/13/25 03:20	1
Benzo[a]anthracene	<0.19		0.19	ug/L		06/05/25 04:36	06/13/25 03:20	1
Benzo[a]pyrene	<0.19		0.19	ug/L		06/05/25 04:36	06/13/25 03:20	1
Benzo[b]fluoranthene	<0.19		0.19	ug/L		06/05/25 04:36	06/13/25 03:20	1
Benzo[g,h,i]perylene	<0.19		0.19	ug/L		06/05/25 04:36	06/13/25 03:20	1
Benzo[k]fluoranthene	<0.19		0.19	ug/L		06/05/25 04:36	06/13/25 03:20	1
Chrysene	<0.19		0.19	ug/L		06/05/25 04:36	06/13/25 03:20	1
Dibenz(a,h)anthracene	<0.19		0.19	ug/L		06/05/25 04:36	06/13/25 03:20	1
Fluoranthene	<0.19		0.19	ug/L		06/05/25 04:36	06/13/25 03:20	1
Fluorene	<0.19		0.19	ug/L		06/05/25 04:36	06/13/25 03:20	1
Indeno[1,2,3-cd]pyrene	<0.19		0.19	ug/L		06/05/25 04:36	06/13/25 03:20	1
Naphthalene	<0.19		0.19	ug/L		06/05/25 04:36	06/13/25 03:20	1
Phenanthrene	<0.19		0.19	ug/L		06/05/25 04:36	06/13/25 03:20	1
Pyrene	<0.19		0.19	ug/L		06/05/25 04:36	06/13/25 03:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	76		28 - 127	06/05/25 04:36	06/13/25 03:20	1
2-Fluorobiphenyl (Surr)	70		31 - 120	06/05/25 04:36	06/13/25 03:20	1
2-Fluorophenol (Surr)	36		17 - 120	06/05/25 04:36	06/13/25 03:20	1
Nitrobenzene-d5 (Surr)	74		27 - 120	06/05/25 04:36	06/13/25 03:20	1
Phenol-d6 (Surr)	23		10 - 120	06/05/25 04:36	06/13/25 03:20	1
p-Terphenyl-d14 (Surr)	103		45 - 120	06/05/25 04:36	06/13/25 03:20	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	06/05/25 04:36	06/17/25 20:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	56		33 - 139	06/05/25 04:36	06/17/25 20:59	1
2-Fluorobiphenyl (Surr)	63		33 - 126	06/05/25 04:36	06/17/25 20:59	1
2-Fluorophenol (Surr)	31		12 - 120	06/05/25 04:36	06/17/25 20:59	1
Nitrobenzene-d5 (Surr)	65		36 - 120	06/05/25 04:36	06/17/25 20:59	1
Phenol-d6 (Surr)	17		10 - 120	06/05/25 04:36	06/17/25 20:59	1
p-Terphenyl-d14 (Surr)	74		47 - 131	06/05/25 04:36	06/17/25 20:59	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	<10		10	ug/L			06/11/25 19:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		38 - 134		06/11/25 19:07	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	<26		26	ug/L		06/08/25 09:03	06/16/25 22:33	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-153634-1
 SDG: Weekly

**Client Sample ID: AIEA GULCH WELLS PUMP 2
 (331-202-TP072)**

Lab Sample ID: 380-153634-3

Date Collected: 06/02/25 10:25

Matrix: Water

Date Received: 06/04/25 09:47

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		06/08/25 09:03	06/16/25 22:33	1
C8-C18	<26		26	ug/L		06/08/25 09:03	06/16/25 22:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>n-Octacosane (Surr)</i>	130		60 - 130			06/08/25 09:03	06/16/25 22:33	1

**Client Sample ID: TB: AIEA GULCH WELLS PUMP 2
 (331-202-TP072)**

Lab Sample ID: 380-153634-4

Date Collected: 06/02/25 10:25

Matrix: Water

Date Received: 06/04/25 09:47

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	<10		10	ug/L			06/11/25 15:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>4-Bromofluorobenzene (Surr)</i>	79		38 - 134				06/11/25 15:36	1

Action Limit Summary

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

Job ID: 380-153634-1
SDG: Weekly

Client Sample ID: AIEA GULCH WELLS PUMP 1
(331-201-TP071)
PWSID Number: HI0000331

Lab Sample ID: 380-153634-1

Compliance Check

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

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

Client Sample ID: AIEA GULCH WELLS PUMP 2
(331-202-TP072)
PWSID Number: HI0000331

Lab Sample ID: 380-153634-3

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

Surrogate Summary

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

Job ID: 380-153634-1
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)
380-153634-1	AIEA GULCH WELLS PUMP 1 (	92	90	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)
380-152936-F-1-A DU	Duplicate	92	93	111
380-153634-3	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	91	93	103
380-153638-E-1-A MS	Matrix Spike	93	101	113
LCS 380-156228/23-A	Lab Control Sample	89	100	113
LCSD 380-156228/24-A	Lab Control Sample Dup	91	101	113
MB 380-156228/21-A	Method Blank	90	91	107
MRL 380-156228/22-A	Lab Control Sample	90	96	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)
380-153634-1	AIEA GULCH WELLS PUMP 1 (	45	49	26	52	15	70

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)
380-153634-3	AIEA GULCH WELLS PUMP 2 (	56	63	31	65	17	74
MB 570-579214/1-A	Method Blank	70	69	49	77	25	72

Surrogate Legend

Surrogate Summary

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

Job ID: 380-153634-1
 SDG: Weekly

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

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

Matrix: Drinking Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (28-127)	FBP (31-120)	2FP (17-120)	NBZ (27-120)	PHL6 (10-120)	TPHd14 (45-120)
380-153634-1	AIEA GULCH WELLS PUMP 1 (	63	52	30	57	19	76

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)
380-153634-3	AIEA GULCH WELLS PUMP 2 (	76	70	36	74	23	103
570-232947-B-1-A MS	Matrix Spike	86	76	37	62	25	81
570-232947-B-1-B MSD	Matrix Spike Duplicate	89	83	43	65	28	82
LCS 570-579214/2-A	Lab Control Sample	90	81	53	71	33	90
LCSD 570-579214/3-A	Lab Control Sample Dup	80	72	46	65	29	79
MB 570-579214/1-A	Method Blank	90	77	49	83	31	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)

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)
380-153634-1	AIEA GULCH WELLS PUMP 1 (	79
380-153634-2	TB: AIEA GULCH WELLS PUMF 1 (331-201-TP071)	82

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

Surrogate Summary

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

Job ID: 380-153634-1
 SDG: Weekly

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

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB1 (38-134)
380-153626-C-3 MS	Matrix Spike	88
380-153626-C-3 MSD	Matrix Spike Duplicate	92
380-153634-3	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	80
380-153634-4	TB: AIEA GULCH WELLS PUMF 2 (331-202-TP072)	79
LCS 570-582499/4	Lab Control Sample	87
LCSD 570-582499/5	Lab Control Sample Dup	87
MB 570-582499/6	Method Blank	74
MRL 570-582499/3	Lab Control Sample	81

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

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

Matrix: Drinking Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	OTCSN1 (60-130)
380-153634-1	AIEA GULCH WELLS PUMP 1 (	134 S1+

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)
380-153626-B-3-A MS	Matrix Spike	111
380-153626-B-3-B MSD	Matrix Spike Duplicate	108
380-153634-3	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	130
LCS 570-581117/2-A	Lab Control Sample	100
LCSD 570-581117/3-A	Lab Control Sample Dup	104
MB 570-581117/1-A	Method Blank	110
MRL 570-581117/4-A	Lab Control Sample	94

Surrogate Legend

OTCSN = n-Octacosane (Surr)

QC Sample Results

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

Job ID: 380-153634-1
 SDG: Weekly

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

Lab Sample ID: MB 380-156228/21-A
Matrix: Water
Analysis Batch: 156514

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 156228

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
1-Methylnaphthalene	<0.10		0.10	ug/L		06/05/25 07:54	06/06/25 13:54	1
2,4'-DDD	<0.10		0.10	ug/L		06/05/25 07:54	06/06/25 13:54	1
2,4'-DDE	<0.10		0.10	ug/L		06/05/25 07:54	06/06/25 13:54	1
2,4'-DDT	<0.10		0.10	ug/L		06/05/25 07:54	06/06/25 13:54	1
2,4-Dinitrotoluene	<0.10		0.10	ug/L		06/05/25 07:54	06/06/25 13:54	1
2,6-Dinitrotoluene	<0.10		0.10	ug/L		06/05/25 07:54	06/06/25 13:54	1
2-Methylnaphthalene	<0.10		0.10	ug/L		06/05/25 07:54	06/06/25 13:54	1
4,4'-DDD	<0.10		0.10	ug/L		06/05/25 07:54	06/06/25 13:54	1
4,4'-DDE	<0.10		0.10	ug/L		06/05/25 07:54	06/06/25 13:54	1
4,4'-DDT	<0.10		0.10	ug/L		06/05/25 07:54	06/06/25 13:54	1
Acenaphthene	<0.10		0.10	ug/L		06/05/25 07:54	06/06/25 13:54	1
Acenaphthylene	<0.10		0.10	ug/L		06/05/25 07:54	06/06/25 13:54	1
Acetochlor	<0.10		0.10	ug/L		06/05/25 07:54	06/06/25 13:54	1
Alachlor	<0.050		0.050	ug/L		06/05/25 07:54	06/06/25 13:54	1
alpha-BHC	<0.10		0.10	ug/L		06/05/25 07:54	06/06/25 13:54	1
alpha-Chlordane	<0.050		0.050	ug/L		06/05/25 07:54	06/06/25 13:54	1
Anthracene	<0.020		0.020	ug/L		06/05/25 07:54	06/06/25 13:54	1
Atrazine	<0.050		0.050	ug/L		06/05/25 07:54	06/06/25 13:54	1
Benz(a)anthracene	<0.050		0.050	ug/L		06/05/25 07:54	06/06/25 13:54	1
Benzo[a]pyrene	<0.020		0.020	ug/L		06/05/25 07:54	06/06/25 13:54	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		06/05/25 07:54	06/06/25 13:54	1
Benzo[g,h,i]perylene	<0.050		0.050	ug/L		06/05/25 07:54	06/06/25 13:54	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		06/05/25 07:54	06/06/25 13:54	1
beta-BHC	<0.10		0.10	ug/L		06/05/25 07:54	06/06/25 13:54	1
Bis(2-ethylhexyl) phthalate	<0.60		0.60	ug/L		06/05/25 07:54	06/06/25 13:54	1
Bromacil	<0.10		0.10	ug/L		06/05/25 07:54	06/06/25 13:54	1
Butachlor	<0.050		0.050	ug/L		06/05/25 07:54	06/06/25 13:54	1
Butylbenzylphthalate	<0.50		0.50	ug/L		06/05/25 07:54	06/06/25 13:54	1
Chlorobenzilate	<0.10		0.10	ug/L		06/05/25 07:54	06/06/25 13:54	1
Chloroneb	<0.10		0.10	ug/L		06/05/25 07:54	06/06/25 13:54	1
Chlorothalonil (Draconil, Bravo)	<0.10		0.10	ug/L		06/05/25 07:54	06/06/25 13:54	1
Chlorpyrifos	<0.050		0.050	ug/L		06/05/25 07:54	06/06/25 13:54	1
Chrysene	<0.020		0.020	ug/L		06/05/25 07:54	06/06/25 13:54	1
delta-BHC	<0.10		0.10	ug/L		06/05/25 07:54	06/06/25 13:54	1
Di(2-ethylhexyl)adipate	<0.60		0.60	ug/L		06/05/25 07:54	06/06/25 13:54	1
Dibenz(a,h)anthracene	<0.050		0.050	ug/L		06/05/25 07:54	06/06/25 13:54	1
Diclorvos (DDVP)	<0.050		0.050	ug/L		06/05/25 07:54	06/06/25 13:54	1
Dieldrin	<0.010		0.010	ug/L		06/05/25 07:54	06/06/25 13:54	1
Diethylphthalate	<0.50		0.50	ug/L		06/05/25 07:54	06/06/25 13:54	1
Dimethylphthalate	<0.50		0.50	ug/L		06/05/25 07:54	06/06/25 13:54	1
Di-n-butyl phthalate	<1.0		1.0	ug/L		06/05/25 07:54	06/06/25 13:54	1
Di-n-octyl phthalate	<0.10		0.10	ug/L		06/05/25 07:54	06/06/25 13:54	1
Endosulfan I (Alpha)	<0.10		0.10	ug/L		06/05/25 07:54	06/06/25 13:54	1
Endosulfan II (Beta)	<0.10		0.10	ug/L		06/05/25 07:54	06/06/25 13:54	1
Endosulfan sulfate	<0.10		0.10	ug/L		06/05/25 07:54	06/06/25 13:54	1
Endrin	<0.010		0.010	ug/L		06/05/25 07:54	06/06/25 13:54	1
Endrin aldehyde	<0.10		0.10	ug/L		06/05/25 07:54	06/06/25 13:54	1
EPTC	<0.10		0.10	ug/L		06/05/25 07:54	06/06/25 13:54	1

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QC Sample Results

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

Job ID: 380-153634-1
SDG: Weekly

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

Lab Sample ID: MB 380-156228/21-A
Matrix: Water
Analysis Batch: 156514

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 156228

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	<0.10		0.10	ug/L		06/05/25 07:54	06/06/25 13:54	1
Fluorene	<0.050		0.050	ug/L		06/05/25 07:54	06/06/25 13:54	1
gamma-Chlordane	<0.050		0.050	ug/L		06/05/25 07:54	06/06/25 13:54	1
Heptachlor	<0.010		0.010	ug/L		06/05/25 07:54	06/06/25 13:54	1
Heptachlor epoxide (isomer B)	<0.010		0.010	ug/L		06/05/25 07:54	06/06/25 13:54	1
Hexachlorobenzene	<0.050		0.050	ug/L		06/05/25 07:54	06/06/25 13:54	1
Hexachlorocyclopentadiene	<0.050		0.050	ug/L		06/05/25 07:54	06/06/25 13:54	1
Indeno[1,2,3-cd]pyrene	<0.050		0.050	ug/L		06/05/25 07:54	06/06/25 13:54	1
Isophorone	<0.10		0.10	ug/L		06/05/25 07:54	06/06/25 13:54	1
Lindane	<0.010		0.010	ug/L		06/05/25 07:54	06/06/25 13:54	1
Malathion	<0.10		0.10	ug/L		06/05/25 07:54	06/06/25 13:54	1
Methoxychlor	<0.050		0.050	ug/L		06/05/25 07:54	06/06/25 13:54	1
Metolachlor	<0.050		0.050	ug/L		06/05/25 07:54	06/06/25 13:54	1
Molinate	<0.10		0.10	ug/L		06/05/25 07:54	06/06/25 13:54	1
Naphthalene	<0.10		0.10	ug/L		06/05/25 07:54	06/06/25 13:54	1
Parathion	<0.10		0.10	ug/L		06/05/25 07:54	06/06/25 13:54	1
Pendimethalin (Penoxaline)	<0.10		0.10	ug/L		06/05/25 07:54	06/06/25 13:54	1
Phenanthrene	<0.040		0.040	ug/L		06/05/25 07:54	06/06/25 13:54	1
Propachlor	<0.050		0.050	ug/L		06/05/25 07:54	06/06/25 13:54	1
Pyrene	<0.050		0.050	ug/L		06/05/25 07:54	06/06/25 13:54	1
Simazine	<0.050		0.050	ug/L		06/05/25 07:54	06/06/25 13:54	1
Terbacil	<0.10		0.10	ug/L		06/05/25 07:54	06/06/25 13:54	1
Terbutylazine	<0.10		0.10	ug/L		06/05/25 07:54	06/06/25 13:54	1
Thiobencarb	<0.10		0.10	ug/L		06/05/25 07:54	06/06/25 13:54	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		06/05/25 07:54	06/06/25 13:54	1
trans-Nonachlor	<0.050		0.050	ug/L		06/05/25 07:54	06/06/25 13:54	1
Trifluralin	<0.10		0.10	ug/L		06/05/25 07:54	06/06/25 13:54	1

<i>Tentatively Identified Compound</i>	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Cyclopentene, 1,2,3,3,4-pentamethyl-	1.01	T J N	ug/L		2.51	197390-29-7	06/05/25 07:54	06/06/25 13:54	1
Decane	2.56	T J N	ug/L		2.76	124-18-5	06/05/25 07:54	06/06/25 13:54	1
Phenol, p-tert-butyl-	0.504	T J N	ug/L		3.85	98-54-4	06/05/25 07:54	06/06/25 13:54	1
9-Octadecenamide, (Z)-	2.42	T J N	ug/L		7.93	301-02-0	06/05/25 07:54	06/06/25 13:54	1
13-Docosenamide, (Z)-	1.22	T J N	ug/L		10.50	112-84-5	06/05/25 07:54	06/06/25 13:54	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	90		70 - 130	06/05/25 07:54	06/06/25 13:54	1
Perylene-d12	91		70 - 130	06/05/25 07:54	06/06/25 13:54	1
Triphenylphosphate	107		70 - 130	06/05/25 07:54	06/06/25 13:54	1

Lab Sample ID: LCS 380-156228/23-A
Matrix: Water
Analysis Batch: 156514

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 156228

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	1.99	1.96		ug/L		99	70 - 130
2,4'-DDD	1.99	2.11		ug/L		106	70 - 130
2,4'-DDE	1.99	2.22		ug/L		112	70 - 130

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QC Sample Results

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

Job ID: 380-153634-1
SDG: Weekly

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

Lab Sample ID: LCS 380-156228/23-A
Matrix: Water
Analysis Batch: 156514

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 156228

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4'-DDT	1.99	1.97		ug/L		99	70 - 130
2,4-Dinitrotoluene	1.99	1.89		ug/L		95	70 - 130
2,6-Dinitrotoluene	1.99	2.20		ug/L		111	70 - 130
2-Methylnaphthalene	1.99	1.98		ug/L		99	70 - 130
4,4'-DDD	1.99	2.01		ug/L		101	70 - 130
4,4'-DDE	1.99	2.41		ug/L		121	70 - 130
4,4'-DDT	1.99	2.12		ug/L		107	70 - 130
Acenaphthene	1.99	1.98		ug/L		99	70 - 130
Acenaphthylene	1.99	2.03		ug/L		102	70 - 130
Acetochlor	1.99	1.90		ug/L		95	70 - 130
Alachlor	1.99	2.20		ug/L		111	70 - 130
alpha-BHC	1.99	1.97		ug/L		99	70 - 130
alpha-Chlordane	1.99	2.14		ug/L		107	70 - 130
Anthracene	1.99	1.90		ug/L		96	70 - 130
Atrazine	1.99	2.05		ug/L		103	70 - 130
Benz(a)anthracene	1.99	2.16		ug/L		108	70 - 130
Benzo[a]pyrene	1.99	2.25		ug/L		113	70 - 130
Benzo[b]fluoranthene	1.99	2.32		ug/L		117	70 - 130
Benzo[g,h,i]perylene	1.99	2.20		ug/L		111	70 - 130
Benzo[k]fluoranthene	1.99	2.36		ug/L		119	70 - 130
beta-BHC	1.99	1.96		ug/L		99	70 - 130
Bis(2-ethylhexyl) phthalate	1.99	1.88		ug/L		94	70 - 130
Bromacil	1.99	2.12		ug/L		107	70 - 130
Butachlor	1.99	2.01		ug/L		101	70 - 130
Butylbenzylphthalate	1.99	2.18		ug/L		110	70 - 130
Chlorobenzilate	1.99	2.01		ug/L		101	70 - 130
Chloroneb	1.99	1.92		ug/L		97	70 - 130
Chlorothalonil (Draconil, Bravo)	1.99	2.18		ug/L		109	70 - 130
Chlorpyrifos	1.99	2.30		ug/L		116	70 - 130
Chrysene	1.99	2.15		ug/L		108	70 - 130
delta-BHC	1.99	2.01		ug/L		101	70 - 130
Di(2-ethylhexyl)adipate	1.99	2.02		ug/L		102	70 - 130
Dibenz(a,h)anthracene	1.99	2.15		ug/L		108	70 - 130
Diclorvos (DDVP)	1.99	1.94		ug/L		97	70 - 130
Dieldrin	1.99	2.19		ug/L		110	70 - 130
Diethylphthalate	1.99	2.02		ug/L		101	70 - 130
Dimethylphthalate	1.99	2.08		ug/L		105	70 - 130
Di-n-butyl phthalate	3.98	4.27		ug/L		107	70 - 130
Di-n-octyl phthalate	1.99	1.80		ug/L		90	70 - 130
Endosulfan I (Alpha)	1.99	1.94		ug/L		97	70 - 130
Endosulfan II (Beta)	1.99	2.01		ug/L		101	70 - 130
Endosulfan sulfate	1.99	2.18		ug/L		110	70 - 130
Endrin	1.99	2.34		ug/L		117	70 - 130
Endrin aldehyde	1.99	2.36		ug/L		119	60 - 130
EPTC	1.99	2.08		ug/L		104	70 - 130
Fluoranthene	1.99	2.19		ug/L		110	70 - 130
Fluorene	1.99	2.11		ug/L		106	70 - 130
gamma-Chlordane	1.99	2.14		ug/L		108	70 - 130
Heptachlor	1.99	2.39		ug/L		120	70 - 130

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QC Sample Results

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

Job ID: 380-153634-1
SDG: Weekly

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

Lab Sample ID: LCS 380-156228/23-A
Matrix: Water
Analysis Batch: 156514

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 156228

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Heptachlor epoxide (isomer B)	1.99	2.37		ug/L		119	70 - 130
Hexachlorobenzene	1.99	2.11		ug/L		106	70 - 130
Hexachlorocyclopentadiene	1.99	2.18		ug/L		110	70 - 130
Indeno[1,2,3-cd]pyrene	1.99	2.24		ug/L		113	70 - 130
Isophorone	1.99	1.85		ug/L		93	70 - 130
Lindane	1.99	2.12		ug/L		107	70 - 130
Malathion	1.99	2.04		ug/L		103	70 - 130
Methoxychlor	1.99	2.04		ug/L		103	70 - 130
Metolachlor	1.99	1.91		ug/L		96	70 - 130
Molinate	1.99	2.07		ug/L		104	70 - 130
Naphthalene	1.99	1.89		ug/L		95	70 - 130
Parathion	1.99	2.05		ug/L		103	70 - 130
Pendimethalin (Penoxaline)	1.99	2.12		ug/L		107	70 - 130
Phenanthrene	1.99	2.02		ug/L		102	70 - 130
Propachlor	1.99	2.04		ug/L		103	70 - 130
Pyrene	1.99	2.05		ug/L		103	70 - 130
Simazine	1.99	1.92		ug/L		97	70 - 130
Terbacil	1.99	2.37		ug/L		119	70 - 130
Terbutylazine	1.99	2.04		ug/L		102	70 - 130
Thiobencarb	1.99	1.95		ug/L		98	70 - 130
trans-Nonachlor	1.99	2.22		ug/L		112	70 - 130
Trifluralin	1.99	1.91		ug/L		96	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Nitro-m-xylene	89		70 - 130
Perylene-d12	100		70 - 130
Triphenylphosphate	113		70 - 130

Lab Sample ID: LCSD 380-156228/24-A
Matrix: Water
Analysis Batch: 156514

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 156228

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	1.99	1.97		ug/L		99	70 - 130	0	20
2,4'-DDD	1.99	2.09		ug/L		105	70 - 130	1	20
2,4'-DDE	1.99	2.22		ug/L		112	70 - 130	0	20
2,4'-DDT	1.99	1.99		ug/L		100	70 - 130	1	20
2,4-Dinitrotoluene	1.99	1.91		ug/L		96	70 - 130	1	20
2,6-Dinitrotoluene	1.99	2.20		ug/L		111	70 - 130	0	20
2-Methylnaphthalene	1.99	2.00		ug/L		101	70 - 130	1	20
4,4'-DDD	1.99	2.00		ug/L		101	70 - 130	1	20
4,4'-DDE	1.99	2.36		ug/L		119	70 - 130	2	20
4,4'-DDT	1.99	2.11		ug/L		106	70 - 130	1	20
Acenaphthene	1.99	2.00		ug/L		101	70 - 130	1	20
Acenaphthylene	1.99	2.04		ug/L		103	70 - 130	1	20
Acetochlor	1.99	1.92		ug/L		96	70 - 130	1	20
Alachlor	1.99	2.15		ug/L		108	70 - 130	2	20
alpha-BHC	1.99	1.95		ug/L		98	70 - 130	1	20

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-153634-1
SDG: Weekly

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

Lab Sample ID: LCSD 380-156228/24-A
Matrix: Water
Analysis Batch: 156514

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 156228

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
alpha-Chlordane	1.99	2.18		ug/L		110	70 - 130	2	20	
Anthracene	1.99	1.87		ug/L		94	70 - 130	2	20	
Atrazine	1.99	2.05		ug/L		103	70 - 130	0	20	
Benz(a)anthracene	1.99	2.15		ug/L		108	70 - 130	0	20	
Benzo[a]pyrene	1.99	2.24		ug/L		113	70 - 130	0	20	
Benzo[b]fluoranthene	1.99	2.35		ug/L		118	70 - 130	1	20	
Benzo[g,h,i]perylene	1.99	2.19		ug/L		110	70 - 130	1	20	
Benzo[k]fluoranthene	1.99	2.38		ug/L		120	70 - 130	1	20	
beta-BHC	1.99	1.96		ug/L		98	70 - 130	0	20	
Bis(2-ethylhexyl) phthalate	1.99	1.85		ug/L		93	70 - 130	1	20	
Bromacil	1.99	2.00		ug/L		100	70 - 130	6	20	
Butachlor	1.99	1.96		ug/L		99	70 - 130	3	20	
Butylbenzylphthalate	1.99	2.15		ug/L		108	70 - 130	1	20	
Chlorobenzilate	1.99	1.97		ug/L		99	70 - 130	2	20	
Chloroneb	1.99	1.88		ug/L		95	70 - 130	2	20	
Chlorothalonil (Draconil, Bravo)	1.99	2.13		ug/L		107	70 - 130	2	20	
Chlorpyrifos	1.99	2.26		ug/L		114	70 - 130	2	20	
Chrysene	1.99	2.14		ug/L		108	70 - 130	0	20	
delta-BHC	1.99	1.98		ug/L		100	70 - 130	1	20	
Di(2-ethylhexyl)adipate	1.99	2.00		ug/L		101	70 - 130	1	20	
Dibenz(a,h)anthracene	1.99	2.15		ug/L		108	70 - 130	0	20	
Diclorvos (DDVP)	1.99	1.95		ug/L		98	70 - 130	1	20	
Dieldrin	1.99	2.15		ug/L		108	70 - 130	2	20	
Diethylphthalate	1.99	1.99		ug/L		100	70 - 130	1	20	
Dimethylphthalate	1.99	2.07		ug/L		104	70 - 130	0	20	
Di-n-butyl phthalate	3.97	4.19		ug/L		105	70 - 130	2	20	
Di-n-octyl phthalate	1.99	1.78		ug/L		90	70 - 130	1	20	
Endosulfan I (Alpha)	1.99	1.95		ug/L		98	70 - 130	0	20	
Endosulfan II (Beta)	1.99	2.04		ug/L		103	70 - 130	1	20	
Endosulfan sulfate	1.99	2.16		ug/L		109	70 - 130	1	20	
Endrin	1.99	2.30		ug/L		116	70 - 130	2	20	
Endrin aldehyde	1.99	2.31		ug/L		116	60 - 130	2	20	
EPTC	1.99	2.11		ug/L		106	70 - 130	2	20	
Fluoranthene	1.99	2.18		ug/L		110	70 - 130	0	20	
Fluorene	1.99	2.13		ug/L		107	70 - 130	1	20	
gamma-Chlordane	1.99	2.12		ug/L		107	70 - 130	1	20	
Heptachlor	1.99	2.34		ug/L		118	70 - 130	2	20	
Heptachlor epoxide (isomer B)	1.99	2.35		ug/L		118	70 - 130	1	20	
Hexachlorobenzene	1.99	2.12		ug/L		107	70 - 130	0	20	
Hexachlorocyclopentadiene	1.99	2.15		ug/L		108	70 - 130	2	20	
Indeno[1,2,3-cd]pyrene	1.99	2.26		ug/L		114	70 - 130	1	20	
Isophorone	1.99	1.87		ug/L		94	70 - 130	1	20	
Lindane	1.99	2.10		ug/L		106	70 - 130	1	20	
Malathion	1.99	2.05		ug/L		103	70 - 130	0	20	
Methoxychlor	1.99	2.04		ug/L		103	70 - 130	0	20	
Metolachlor	1.99	1.88		ug/L		95	70 - 130	2	20	
Molinate	1.99	2.11		ug/L		106	70 - 130	2	20	
Naphthalene	1.99	1.91		ug/L		96	70 - 130	1	20	
Parathion	1.99	2.05		ug/L		103	70 - 130	0	20	

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-153634-1
SDG: Weekly

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

Lab Sample ID: LCSD 380-156228/24-A
Matrix: Water
Analysis Batch: 156514

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 156228

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Pendimethalin (Penoxaline)	1.99	2.08		ug/L		105	70 - 130	2	20
Phenanthrene	1.99	1.99		ug/L		100	70 - 130	2	20
Propachlor	1.99	2.04		ug/L		103	70 - 130	0	20
Pyrene	1.99	2.06		ug/L		104	70 - 130	0	20
Simazine	1.99	1.89		ug/L		95	70 - 130	2	20
Terbacil	1.99	2.23		ug/L		112	70 - 130	6	20
Terbutylazine	1.99	2.01		ug/L		101	70 - 130	1	20
Thiobencarb	1.99	1.93		ug/L		97	70 - 130	1	20
trans-Nonachlor	1.99	2.20		ug/L		110	70 - 130	1	20
Trifluralin	1.99	1.92		ug/L		97	70 - 130	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
2-Nitro-m-xylene	91		70 - 130
Perylene-d12	101		70 - 130
Triphenylphosphate	113		70 - 130

Lab Sample ID: MRL 380-156228/22-A
Matrix: Water
Analysis Batch: 156514

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 156228

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	0.0994	0.109		ug/L		109	50 - 150
2,4'-DDD	0.0994	0.0928	J	ug/L		93	50 - 150
2,4'-DDE	0.0994	0.110		ug/L		111	50 - 150
2,4'-DDT	0.0994	0.114		ug/L		115	50 - 150
2,4-Dinitrotoluene	0.0994	0.111		ug/L		111	50 - 150
2,6-Dinitrotoluene	0.0994	0.131		ug/L		132	50 - 150
2-Methylnaphthalene	0.0994	0.105		ug/L		105	50 - 150
4,4'-DDD	0.0994	0.115		ug/L		115	50 - 150
4,4'-DDE	0.0994	0.113		ug/L		114	50 - 150
4,4'-DDT	0.0994	0.119		ug/L		120	50 - 150
Acenaphthene	0.0994	0.0947	J	ug/L		95	50 - 150
Acenaphthylene	0.0994	0.0957	J	ug/L		96	50 - 150
Acetochlor	0.0994	0.120		ug/L		121	50 - 150
Alachlor	0.0497	0.0547		ug/L		110	50 - 150
alpha-BHC	0.0994	0.101		ug/L		102	50 - 150
alpha-Chlordane	0.0249	0.0324	J	ug/L		130	50 - 150
Anthracene	0.0199	0.0221		ug/L		111	50 - 150
Atrazine	0.0497	0.0655		ug/L		132	50 - 150
Benz(a)anthracene	0.0497	0.0561		ug/L		113	50 - 150
Benzo[a]pyrene	0.0199	0.0201		ug/L		101	50 - 150
Benzo[b]fluoranthene	0.0199	0.0217		ug/L		109	50 - 150
Benzo[g,h,i]perylene	0.0497	0.0558		ug/L		112	50 - 150
Benzo[k]fluoranthene	0.0199	0.0209		ug/L		105	50 - 150
beta-BHC	0.0994	0.106		ug/L		107	50 - 150
Bis(2-ethylhexyl) phthalate	0.596	0.586	J	ug/L		98	50 - 150
Bromacil	0.0994	0.117		ug/L		118	50 - 150
Butachlor	0.0497	0.0705		ug/L		142	50 - 150

QC Sample Results

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

Job ID: 380-153634-1
SDG: Weekly

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

Lab Sample ID: MRL 380-156228/22-A
Matrix: Water
Analysis Batch: 156514

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 156228

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Butylbenzylphthalate	0.497	0.533		ug/L		107	50 - 150
Chlorobenzilate	0.0994	0.103		ug/L		104	50 - 150
Chloroneb	0.0994	0.102		ug/L		102	50 - 150
Chlorothalonil (Draconil, Bravo)	0.0994	0.106		ug/L		106	50 - 150
Chlorpyrifos	0.0497	0.0516		ug/L		104	50 - 150
Chrysene	0.0199	0.0229		ug/L		115	50 - 150
delta-BHC	0.0994	0.0991		ug/L		100	50 - 150
Di(2-ethylhexyl)adipate	0.596	0.612		ug/L		103	50 - 150
Dibenz(a,h)anthracene	0.0497	0.0596		ug/L		120	50 - 150
Diclorvos (DDVP)	0.0497	0.0545		ug/L		110	50 - 150
Dieldrin	0.00994	0.0119		ug/L		119	50 - 150
Diethylphthalate	0.497	0.523		ug/L		105	50 - 150
Dimethylphthalate	0.497	0.525		ug/L		106	50 - 150
Di-n-butyl phthalate	0.497	0.783	J	ug/L		157	49 - 243
Di-n-octyl phthalate	0.0994	0.0976	J	ug/L		98	50 - 150
Endosulfan I (Alpha)	0.0994	0.0924	J	ug/L		93	50 - 150
Endosulfan II (Beta)	0.0994	0.106		ug/L		107	50 - 150
Endosulfan sulfate	0.0994	0.118		ug/L		118	50 - 150
Endrin	0.00994	0.0117		ug/L		118	50 - 150
Endrin aldehyde	0.0994	0.135		ug/L		135	50 - 150
EPTC	0.0994	0.0990		ug/L		100	50 - 150
Fluoranthene	0.0994	0.106		ug/L		106	50 - 150
Fluorene	0.0497	0.0538		ug/L		108	50 - 150
gamma-Chlordane	0.0249	0.0337	J	ug/L		136	50 - 150
Heptachlor	0.00994	0.0117		ug/L		118	50 - 150
Heptachlor epoxide (isomer B)	0.00994	0.0148		ug/L		149	50 - 150
Hexachlorobenzene	0.0497	0.0542		ug/L		109	50 - 150
Hexachlorocyclopentadiene	0.0497	0.0459	J	ug/L		92	50 - 150
Indeno[1,2,3-cd]pyrene	0.0497	0.0620		ug/L		125	50 - 150
Isophorone	0.0994	0.110		ug/L		111	50 - 150
Lindane	0.00994	0.0107		ug/L		108	50 - 150
Malathion	0.0994	0.113		ug/L		113	50 - 150
Methoxychlor	0.0497	0.0714		ug/L		144	50 - 150
Metolachlor	0.0497	0.0615		ug/L		124	50 - 150
Molinate	0.0994	0.103		ug/L		103	50 - 150
Naphthalene	0.0994	0.102		ug/L		102	50 - 150
Parathion	0.0994	0.0990		ug/L		100	50 - 150
Pendimethalin (Penoxaline)	0.0994	0.109		ug/L		110	50 - 150
Phenanthrene	0.0398	0.0457		ug/L		115	50 - 150
Propachlor	0.0497	0.0517		ug/L		104	50 - 150
Pyrene	0.0497	0.0607		ug/L		122	50 - 150
Simazine	0.0497	0.0634		ug/L		127	50 - 150
Terbacil	0.0994	0.102		ug/L		102	50 - 150
Terbutylazine	0.0994	0.108		ug/L		109	50 - 150
Thiobencarb	0.0994	0.105		ug/L		105	50 - 150
trans-Nonachlor	0.0249	0.0332	J	ug/L		133	50 - 150
Trifluralin	0.0994	0.113		ug/L		113	50 - 150

QC Sample Results

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

Job ID: 380-153634-1
SDG: Weekly

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

Lab Sample ID: MRL 380-156228/22-A
Matrix: Water
Analysis Batch: 156514

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 156228

Surrogate	MRL %Recovery	MRL Qualifier	Limits
2-Nitro-m-xylene	90		70 - 130
Perylene-d12	96		70 - 130
Triphenylphosphate	107		70 - 130

Lab Sample ID: 380-153638-E-1-A MS
Matrix: Water
Analysis Batch: 156514

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 156228

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	<0.099		2.01	2.02		ug/L		100	70 - 130
2,4'-DDD	<0.099		2.01	2.13		ug/L		106	70 - 130
2,4'-DDE	<0.099		2.01	2.20		ug/L		110	70 - 130
2,4'-DDT	<0.099		2.01	2.01		ug/L		100	70 - 130
2,4-Dinitrotoluene	<0.099		2.01	2.06		ug/L		103	70 - 130
2,6-Dinitrotoluene	<0.099		2.01	2.35		ug/L		117	70 - 130
2-Methylnaphthalene	<0.099		2.01	2.05		ug/L		101	70 - 130
4,4'-DDD	<0.099		2.01	2.04		ug/L		102	70 - 130
4,4'-DDE	<0.099		2.01	2.29		ug/L		114	70 - 130
4,4'-DDT	<0.099		2.01	2.08		ug/L		104	70 - 130
Acenaphthene	<0.099		2.01	2.05		ug/L		102	70 - 130
Acenaphthylene	<0.099		2.01	2.07		ug/L		103	70 - 130
Acetochlor	<0.099		2.01	1.97		ug/L		98	70 - 130
Alachlor	<0.050		2.01	2.19		ug/L		109	70 - 130
alpha-BHC	<0.099		2.01	2.02		ug/L		101	70 - 130
alpha-Chlordane	<0.050		2.01	2.12		ug/L		105	70 - 130
Anthracene	<0.020	F1	2.01	0.955	F1	ug/L		48	70 - 130
Atrazine	<0.050		2.01	2.12		ug/L		105	70 - 130
Benz(a)anthracene	<0.050		2.01	1.96		ug/L		98	70 - 130
Benzo[a]pyrene	<0.020		2.01	2.02		ug/L		100	70 - 130
Benzo[b]fluoranthene	<0.020		2.01	2.39		ug/L		119	70 - 130
Benzo[g,h,i]perylene	<0.050		2.01	2.30		ug/L		114	70 - 130
Benzo[k]fluoranthene	<0.020		2.01	2.41		ug/L		120	70 - 130
beta-BHC	<0.099		2.01	2.02		ug/L		101	70 - 130
Bis(2-ethylhexyl) phthalate	<0.60		2.01	1.96		ug/L		98	70 - 130
Bromacil	<0.099		2.01	2.25		ug/L		112	70 - 130
Butachlor	<0.050		2.01	2.03		ug/L		101	70 - 130
Butylbenzylphthalate	<0.50		2.01	2.19		ug/L		109	70 - 130
Chlorobenzilate	<0.099		2.01	2.11		ug/L		105	70 - 130
Chloroneb	<0.099		2.01	1.96		ug/L		98	70 - 130
Chlorothalonil (Draconil, Bravo)	<0.099		2.01	2.21		ug/L		110	70 - 130
Chlorpyrifos	<0.050		2.01	2.29		ug/L		114	70 - 130
Chrysene	<0.020		2.01	2.14		ug/L		106	70 - 130
delta-BHC	<0.099		2.01	2.00		ug/L		99	70 - 130
Di(2-ethylhexyl)adipate	<0.60		2.01	2.04		ug/L		102	70 - 130
Dibenz(a,h)anthracene	<0.050		2.01	2.26		ug/L		113	70 - 130
Diclorvos (DDVP)	<0.050		2.01	2.10		ug/L		104	70 - 130
Dieldrin	<0.0099		2.01	2.20		ug/L		109	70 - 130
Diethylphthalate	<0.50		2.01	2.17		ug/L		105	70 - 130

QC Sample Results

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

Job ID: 380-153634-1
SDG: Weekly

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

Lab Sample ID: 380-153638-E-1-A MS
Matrix: Water
Analysis Batch: 156514

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 156228

Analyte	Sample	Sample Qualifier	Spike Added	MS	MS Qualifier	Unit	D	%Rec	%Rec Limits
	Result			Result					
Dimethylphthalate	<0.50		2.01	2.21		ug/L		110	70 - 130
Di-n-butyl phthalate	<0.99		4.02	4.19		ug/L		96	70 - 130
Di-n-octyl phthalate	<0.099		2.01	1.86		ug/L		93	70 - 130
Endosulfan I (Alpha)	<0.099		2.01	1.98		ug/L		99	70 - 130
Endosulfan II (Beta)	<0.099		2.01	2.05		ug/L		102	70 - 130
Endosulfan sulfate	<0.099		2.01	2.21		ug/L		110	70 - 130
Endrin	<0.0099		2.01	2.39		ug/L		119	70 - 130
Endrin aldehyde	<0.099		2.01	2.09		ug/L		104	60 - 130
EPTC	<0.099		2.01	2.22		ug/L		110	70 - 130
Fluoranthene	<0.099		2.01	2.17		ug/L		108	70 - 130
Fluorene	<0.050		2.01	2.20		ug/L		110	70 - 130
gamma-Chlordane	<0.050		2.01	2.14		ug/L		107	70 - 130
Heptachlor	<0.0099		2.01	2.43		ug/L		121	70 - 130
Heptachlor epoxide (isomer B)	<0.0099		2.01	2.40		ug/L		119	70 - 130
Hexachlorobenzene	<0.050		2.01	2.11		ug/L		105	70 - 130
Hexachlorocyclopentadiene	<0.050		2.01	2.20		ug/L		109	70 - 130
Indeno[1,2,3-cd]pyrene	<0.050		2.01	2.37		ug/L		118	70 - 130
Isophorone	<0.099		2.01	1.94		ug/L		97	70 - 130
Lindane	<0.0099		2.01	2.18		ug/L		108	70 - 130
Malathion	<0.099		2.01	2.10		ug/L		104	70 - 130
Methoxychlor	<0.050		2.01	2.23		ug/L		111	70 - 130
Metolachlor	<0.050		2.01	1.93		ug/L		96	70 - 130
Molinate	<0.099		2.01	2.16		ug/L		107	70 - 130
Naphthalene	<0.099		2.01	1.98		ug/L		98	70 - 130
Parathion	<0.099		2.01	2.15		ug/L		107	70 - 130
Pendimethalin (Penoxaline)	<0.099		2.01	2.19		ug/L		109	70 - 130
Phenanthrene	<0.040		2.01	2.01		ug/L		100	70 - 130
Propachlor	<0.050		2.01	2.20		ug/L		109	70 - 130
Pyrene	<0.050		2.01	2.03		ug/L		101	70 - 130
Simazine	<0.050		2.01	1.94		ug/L		97	70 - 130
Terbacil	<0.099		2.01	2.40		ug/L		120	70 - 130
Terbutylazine	<0.099		2.01	2.12		ug/L		106	70 - 130
Thiobencarb	<0.099		2.01	1.95		ug/L		97	70 - 130
trans-Nonachlor	<0.050		2.01	2.23		ug/L		111	70 - 130
Trifluralin	<0.099		2.01	2.13		ug/L		106	70 - 130
				MS MS					
Surrogate				%Recovery	Qualifier				Limits
2-Nitro-m-xylene				93					70 - 130
Perylene-d12				101					70 - 130
Triphenylphosphate				113					70 - 130

Lab Sample ID: 380-152936-F-1-A DU
Matrix: Water
Analysis Batch: 156514

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 156228

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

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-153634-1
SDG: Weekly

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

Lab Sample ID: 380-152936-F-1-A DU
Matrix: Water
Analysis Batch: 156514

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 156228

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
2,4'-DDE	<0.097		<0.097		ug/L		NC	20
2,4'-DDT	<0.097		<0.097		ug/L		NC	20
2,4-Dinitrotoluene	<0.097		<0.097		ug/L		NC	20
2,6-Dinitrotoluene	<0.097		<0.097		ug/L		NC	20
2-Methylnaphthalene	<0.097		<0.097		ug/L		NC	20
4,4'-DDD	<0.097		<0.097		ug/L		NC	20
4,4'-DDE	<0.097		<0.097		ug/L		NC	20
4,4'-DDT	<0.097		<0.097		ug/L		NC	20
Acenaphthene	<0.097		<0.097		ug/L		NC	20
Acenaphthylene	<0.097		<0.097		ug/L		NC	20
Acetochlor	<0.097		<0.097		ug/L		NC	20
Alachlor	<0.048		<0.048		ug/L		NC	20
alpha-BHC	<0.097		<0.097		ug/L		NC	20
alpha-Chlordane	<0.048		<0.048		ug/L		NC	20
Anthracene	<0.019		<0.019		ug/L		NC	20
Atrazine	<0.048		<0.048		ug/L		NC	20
Benz(a)anthracene	<0.048		<0.048		ug/L		NC	20
Benzo[a]pyrene	<0.019		<0.019		ug/L		NC	20
Benzo[b]fluoranthene	<0.019		<0.019		ug/L		NC	20
Benzo[g,h,i]perylene	<0.048		<0.048		ug/L		NC	20
Benzo[k]fluoranthene	<0.019		<0.019		ug/L		NC	20
beta-BHC	<0.097		<0.097		ug/L		NC	20
Bis(2-ethylhexyl) phthalate	<0.58		<0.58		ug/L		NC	20
Bromacil	<0.097		<0.097		ug/L		NC	20
Butachlor	<0.048		<0.048		ug/L		NC	20
Butylbenzylphthalate	<0.48		<0.48		ug/L		NC	20
Chlorobenzilate	<0.097		<0.097		ug/L		NC	20
Chloroneb	<0.097		<0.097		ug/L		NC	20
Chlorothalonil (Draconil, Bravo)	<0.097		<0.097		ug/L		NC	20
Chlorpyrifos	<0.048		<0.048		ug/L		NC	20
Chrysene	<0.019		<0.019		ug/L		NC	20
delta-BHC	<0.097		<0.097		ug/L		NC	20
Di(2-ethylhexyl)adipate	<0.58		<0.58		ug/L		NC	20
Dibenz(a,h)anthracene	<0.048		<0.048		ug/L		NC	20
Diclorvos (DDVP)	<0.048		<0.048		ug/L		NC	20
Dieldrin	<0.0097		<0.0097		ug/L		NC	20
Diethylphthalate	<0.48		<0.48		ug/L		NC	20
Dimethylphthalate	<0.48		<0.48		ug/L		NC	20
Di-n-butyl phthalate	<0.97		<0.97		ug/L		NC	20
Di-n-octyl phthalate	<0.097		<0.097		ug/L		NC	20
Endosulfan I (Alpha)	<0.097		<0.097		ug/L		NC	20
Endosulfan II (Beta)	<0.097		<0.097		ug/L		NC	20
Endosulfan sulfate	<0.097		<0.097		ug/L		NC	20
Endrin	<0.0097		<0.0097		ug/L		NC	20
Endrin aldehyde	<0.097		<0.097		ug/L		NC	20
EPTC	<0.097		<0.097		ug/L		NC	20
Fluoranthene	<0.097		<0.097		ug/L		NC	20
Fluorene	<0.048		<0.048		ug/L		NC	20
gamma-Chlordane	<0.048		<0.048		ug/L		NC	20

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-153634-1
SDG: Weekly

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

Lab Sample ID: 380-152936-F-1-A DU
Matrix: Water
Analysis Batch: 156514

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 156228

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Heptachlor	<0.0097		<0.0097		ug/L		NC	20
Heptachlor epoxide (isomer B)	<0.0097		<0.0097		ug/L		NC	20
Hexachlorobenzene	<0.048		<0.048		ug/L		NC	20
Hexachlorocyclopentadiene	<0.048		<0.048		ug/L		NC	20
Indeno[1,2,3-cd]pyrene	<0.048		<0.048		ug/L		NC	20
Isophorone	<0.097		<0.097		ug/L		NC	20
Lindane	<0.0097		<0.0097		ug/L		NC	20
Malathion	<0.097		<0.097		ug/L		NC	20
Methoxychlor	<0.048		<0.048		ug/L		NC	20
Metolachlor	<0.048		<0.048		ug/L		NC	20
Molinate	<0.097		<0.097		ug/L		NC	20
Naphthalene	<0.097		<0.097		ug/L		NC	20
Parathion	<0.097		<0.097		ug/L		NC	20
Pendimethalin (Penoxaline)	<0.097		<0.097		ug/L		NC	20
Phenanthrene	<0.039		<0.039		ug/L		NC	20
Propachlor	<0.048		<0.048		ug/L		NC	20
Pyrene	<0.048		<0.048		ug/L		NC	20
Simazine	<0.048		<0.048		ug/L		NC	20
Terbacil	<0.097		<0.097		ug/L		NC	20
Terbutylazine	<0.097		<0.097		ug/L		NC	20
Thiobencarb	<0.097		<0.097		ug/L		NC	20
Total Permethrin (mixed isomers)	<0.19		<0.19		ug/L		NC	20
trans-Nonachlor	<0.048		<0.048		ug/L		NC	20
Trifluralin	<0.097		<0.097		ug/L		NC	20

Surrogate	DU %Recovery	DU Qualifier	Limits
2-Nitro-m-xylene	92		70 - 130
Perylene-d12	93		70 - 130
Triphenylphosphate	111		70 - 130

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

Lab Sample ID: MB 570-579214/1-A
Matrix: Water
Analysis Batch: 585171

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 579214

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	06/04/25 04:54	06/17/25 19:23	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	70		33 - 139	06/04/25 04:54	06/17/25 19:23	1
2-Fluorobiphenyl (Surr)	69		33 - 126	06/04/25 04:54	06/17/25 19:23	1
2-Fluorophenol (Surr)	49		12 - 120	06/04/25 04:54	06/17/25 19:23	1
Nitrobenzene-d5 (Surr)	77		36 - 120	06/04/25 04:54	06/17/25 19:23	1
Phenol-d6 (Surr)	25		10 - 120	06/04/25 04:54	06/17/25 19:23	1
p-Terphenyl-d14 (Surr)	72		47 - 131	06/04/25 04:54	06/17/25 19:23	1

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-153634-1
SDG: Weekly

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

Lab Sample ID: MB 570-579214/1-A
Matrix: Water
Analysis Batch: 579962

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 579214

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.20		0.20	ug/L		06/04/25 04:54	06/05/25 14:10	1
2-Methylnaphthalene	<0.20		0.20	ug/L		06/04/25 04:54	06/05/25 14:10	1
Acenaphthene	<0.20		0.20	ug/L		06/04/25 04:54	06/05/25 14:10	1
Acenaphthylene	<0.20		0.20	ug/L		06/04/25 04:54	06/05/25 14:10	1
Anthracene	<0.20		0.20	ug/L		06/04/25 04:54	06/05/25 14:10	1
Benzo[a]anthracene	<0.20		0.20	ug/L		06/04/25 04:54	06/05/25 14:10	1
Benzo[a]pyrene	<0.20		0.20	ug/L		06/04/25 04:54	06/05/25 14:10	1
Benzo[b]fluoranthene	<0.20		0.20	ug/L		06/04/25 04:54	06/05/25 14:10	1
Benzo[g,h,i]perylene	<0.20		0.20	ug/L		06/04/25 04:54	06/05/25 14:10	1
Benzo[k]fluoranthene	<0.20		0.20	ug/L		06/04/25 04:54	06/05/25 14:10	1
Chrysene	<0.20		0.20	ug/L		06/04/25 04:54	06/05/25 14:10	1
Dibenz(a,h)anthracene	<0.20		0.20	ug/L		06/04/25 04:54	06/05/25 14:10	1
Fluoranthene	<0.20		0.20	ug/L		06/04/25 04:54	06/05/25 14:10	1
Fluorene	<0.20		0.20	ug/L		06/04/25 04:54	06/05/25 14:10	1
Indeno[1,2,3-cd]pyrene	<0.20		0.20	ug/L		06/04/25 04:54	06/05/25 14:10	1
Naphthalene	<0.20		0.20	ug/L		06/04/25 04:54	06/05/25 14:10	1
Phenanthrene	<0.20		0.20	ug/L		06/04/25 04:54	06/05/25 14:10	1
Pyrene	<0.20		0.20	ug/L		06/04/25 04:54	06/05/25 14:10	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	90		28 - 127	06/04/25 04:54	06/05/25 14:10	1
2-Fluorobiphenyl (Surr)	77		31 - 120	06/04/25 04:54	06/05/25 14:10	1
2-Fluorophenol (Surr)	49		17 - 120	06/04/25 04:54	06/05/25 14:10	1
Nitrobenzene-d5 (Surr)	83		27 - 120	06/04/25 04:54	06/05/25 14:10	1
Phenol-d6 (Surr)	31		10 - 120	06/04/25 04:54	06/05/25 14:10	1
p-Terphenyl-d14 (Surr)	85		45 - 120	06/04/25 04:54	06/05/25 14:10	1

Lab Sample ID: LCS 570-579214/2-A
Matrix: Water
Analysis Batch: 579962

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 579214

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	20.0	18.2		ug/L		91	47 - 120
2-Methylnaphthalene	20.0	19.9		ug/L		100	43 - 120
Acenaphthene	20.0	21.1		ug/L		106	60 - 132
Acenaphthylene	20.0	19.3		ug/L		97	54 - 126
Anthracene	20.0	21.0		ug/L		105	43 - 120
Benzo[a]anthracene	20.0	22.9		ug/L		114	42 - 133
Benzo[a]pyrene	20.0	22.8		ug/L		114	32 - 148
Benzo[b]fluoranthene	20.0	22.9		ug/L		115	42 - 140
Benzo[g,h,i]perylene	20.0	23.6		ug/L		118	1 - 195
Benzo[k]fluoranthene	20.0	22.7		ug/L		114	25 - 146
Chrysene	20.0	21.6		ug/L		108	44 - 140
Dibenz(a,h)anthracene	20.0	24.2		ug/L		121	1 - 200
Fluoranthene	20.0	21.7		ug/L		109	43 - 121
Fluorene	20.0	21.1		ug/L		105	70 - 120
Indeno[1,2,3-cd]pyrene	20.0	24.0		ug/L		120	1 - 151
Naphthalene	20.0	17.8		ug/L		89	36 - 120

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-153634-1
SDG: Weekly

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

Lab Sample ID: LCS 570-579214/2-A
Matrix: Water
Analysis Batch: 579962

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 579214

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Phenanthrene	20.0	20.8		ug/L		104	65 - 120
Pyrene	20.0	22.3		ug/L		112	70 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	90		28 - 127
2-Fluorobiphenyl (Surr)	81		31 - 120
2-Fluorophenol (Surr)	53		17 - 120
Nitrobenzene-d5 (Surr)	71		27 - 120
Phenol-d6 (Surr)	33		10 - 120
p-Terphenyl-d14 (Surr)	90		45 - 120

Lab Sample ID: LCSD 570-579214/3-A
Matrix: Water
Analysis Batch: 579962

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 579214

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	20.0	16.6		ug/L		83	47 - 120	9	20
2-Methylnaphthalene	20.0	17.9		ug/L		90	43 - 120	10	20
Acenaphthene	20.0	19.0		ug/L		95	60 - 132	10	29
Acenaphthylene	20.0	17.7		ug/L		89	54 - 126	9	45
Anthracene	20.0	19.0		ug/L		95	43 - 120	10	40
Benzo[a]anthracene	20.0	19.8		ug/L		99	42 - 133	14	32
Benzo[a]pyrene	20.0	19.7		ug/L		98	32 - 148	15	43
Benzo[b]fluoranthene	20.0	20.0		ug/L		100	42 - 140	14	43
Benzo[g,h,i]perylene	20.0	20.9		ug/L		105	1 - 195	12	61
Benzo[k]fluoranthene	20.0	19.8		ug/L		99	25 - 146	14	38
Chrysene	20.0	19.0		ug/L		95	44 - 140	13	53
Dibenz(a,h)anthracene	20.0	20.9		ug/L		105	1 - 200	15	75
Fluoranthene	20.0	19.0		ug/L		95	43 - 121	13	40
Fluorene	20.0	18.2		ug/L		91	70 - 120	15	23
Indeno[1,2,3-cd]pyrene	20.0	21.3		ug/L		107	1 - 151	12	60
Naphthalene	20.0	16.3		ug/L		81	36 - 120	9	39
Phenanthrene	20.0	18.5		ug/L		93	65 - 120	11	24
Pyrene	20.0	20.4		ug/L		102	70 - 120	9	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	80		28 - 127
2-Fluorobiphenyl (Surr)	72		31 - 120
2-Fluorophenol (Surr)	46		17 - 120
Nitrobenzene-d5 (Surr)	65		27 - 120
Phenol-d6 (Surr)	29		10 - 120
p-Terphenyl-d14 (Surr)	79		45 - 120

QC Sample Results

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

Job ID: 380-153634-1
SDG: Weekly

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

Lab Sample ID: 570-232947-B-1-A MS
Matrix: Water
Analysis Batch: 579962

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 579214

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
1-Methylnaphthalene	<0.19		19.5	16.7		ug/L		86	36 - 120
2-Methylnaphthalene	<0.19		19.5	18.2		ug/L		93	32 - 124
Acenaphthene	<0.19		19.5	18.9		ug/L		96	47 - 145
Acenaphthylene	<0.19		19.5	16.6		ug/L		85	33 - 145
Anthracene	<0.19		19.5	18.3		ug/L		94	27 - 133
Benzo[a]anthracene	<0.19		19.5	19.5		ug/L		100	33 - 143
Benzo[a]pyrene	<0.19		19.5	19.6		ug/L		101	17 - 163
Benzo[b]fluoranthene	<0.19		19.5	20.5		ug/L		105	24 - 159
Benzo[g,h,i]perylene	<0.19		19.5	21.5		ug/L		110	1 - 219
Benzo[k]fluoranthene	<0.19		19.5	20.0		ug/L		102	11 - 162
Chrysene	<0.19		19.5	19.2		ug/L		98	17 - 168
Dibenz(a,h)anthracene	<0.19		19.5	21.8		ug/L		112	1 - 227
Fluoranthene	<0.19		19.5	19.4		ug/L		99	26 - 137
Fluorene	<0.19		19.5	19.1		ug/L		98	59 - 121
Indeno[1,2,3-cd]pyrene	<0.19		19.5	22.0		ug/L		113	1 - 171
Naphthalene	<0.19		19.5	16.1		ug/L		82	21 - 133
Phenanthrene	<0.19		19.5	18.9		ug/L		97	54 - 120
Pyrene	<0.19		19.5	19.6		ug/L		101	52 - 120

Surrogate	MS %Recovery	MS Qualifier	MS Limits
2,4,6-Tribromophenol (Surr)	86		28 - 127
2-Fluorobiphenyl (Surr)	76		31 - 120
2-Fluorophenol (Surr)	37		17 - 120
Nitrobenzene-d5 (Surr)	62		27 - 120
Phenol-d6 (Surr)	25		10 - 120
p-Terphenyl-d14 (Surr)	81		45 - 120

Lab Sample ID: 570-232947-B-1-B MSD
Matrix: Water
Analysis Batch: 579962

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 579214

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1-Methylnaphthalene	<0.19		19.7	17.5		ug/L		89	36 - 120	5	30
2-Methylnaphthalene	<0.19		19.7	19.1		ug/L		97	32 - 124	5	30
Acenaphthene	<0.19		19.7	20.5		ug/L		104	47 - 145	8	48
Acenaphthylene	<0.19		19.7	18.3		ug/L		93	33 - 145	9	74
Anthracene	<0.19		19.7	20.9		ug/L		106	27 - 133	13	66
Benzo[a]anthracene	<0.19		19.7	21.3		ug/L		108	33 - 143	9	53
Benzo[a]pyrene	<0.19		19.7	22.2		ug/L		113	17 - 163	12	72
Benzo[b]fluoranthene	<0.19		19.7	22.6		ug/L		115	24 - 159	10	71
Benzo[g,h,i]perylene	<0.19		19.7	22.7		ug/L		115	1 - 219	5	97
Benzo[k]fluoranthene	<0.19		19.7	22.2		ug/L		113	11 - 162	10	63
Chrysene	<0.19		19.7	20.3		ug/L		103	17 - 168	6	87
Dibenz(a,h)anthracene	<0.19		19.7	22.9		ug/L		116	1 - 227	5	126
Fluoranthene	<0.19		19.7	22.1		ug/L		112	26 - 137	13	66
Fluorene	<0.19		19.7	20.7		ug/L		105	59 - 121	8	38
Indeno[1,2,3-cd]pyrene	<0.19		19.7	23.5		ug/L		119	1 - 171	6	99
Naphthalene	<0.19		19.7	17.2		ug/L		88	21 - 133	7	65

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-153634-1
SDG: Weekly

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

Lab Sample ID: 570-232947-B-1-B MSD

Client Sample ID: Matrix Spike Duplicate

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 579962

Prep Batch: 579214

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Phenanthrene	<0.19		19.7	20.5		ug/L		104	54 - 120	8	39
Pyrene	<0.19		19.7	20.4		ug/L		104	52 - 120	4	49

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	89		28 - 127
2-Fluorobiphenyl (Surr)	83		31 - 120
2-Fluorophenol (Surr)	43		17 - 120
Nitrobenzene-d5 (Surr)	65		27 - 120
Phenol-d6 (Surr)	28		10 - 120
p-Terphenyl-d14 (Surr)	82		45 - 120

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

Lab Sample ID: MB 570-582499/6

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 582499

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

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

Lab Sample ID: LCS 570-582499/4

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 582499

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

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

Lab Sample ID: LCSD 570-582499/5

Client Sample ID: Lab Control Sample Dup

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 582499

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (C4-C13)	400	387		ug/L		97	78 - 120	2	10

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

QC Sample Results

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

Job ID: 380-153634-1
SDG: Weekly

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

Lab Sample ID: MRL 570-582499/3
Matrix: Water
Analysis Batch: 582499

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

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

Lab Sample ID: 380-153626-C-3 MS
Matrix: Water
Analysis Batch: 582499

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

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

Lab Sample ID: 380-153626-C-3 MSD
Matrix: Water
Analysis Batch: 582499

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

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

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

Lab Sample ID: MB 570-581117/1-A
Matrix: Water
Analysis Batch: 584442

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 581117

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

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

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

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

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-153634-1
SDG: Weekly

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

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

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

	LCS %Recovery	LCS Qualifier	Limits
<i>n-Octacosane (Surr)</i>	100		60 - 130

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

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

		Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Analyte		1600	1440		ug/L		90	56 - 127	2	23
C10-C28										

	LCSD %Recovery	LCSD Qualifier	Limits
<i>n-Octacosane (Surr)</i>	104		60 - 130

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

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

		Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Analyte		0.0200	<0.020		mg/L		93	50 - 150
C10-C28								

	MRL %Recovery	MRL Qualifier	Limits
<i>n-Octacosane (Surr)</i>	94		60 - 130

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

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

	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Analyte	<25		1620	1640		ug/L		101	70 - 130
C10-C28									

	MS %Recovery	MS Qualifier	Limits
<i>n-Octacosane (Surr)</i>	111		60 - 130

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

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

	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Analyte	<25		1610	1550		ug/L		96	70 - 130	6	20
C10-C28											

	MSD %Recovery	MSD Qualifier	Limits
<i>n-Octacosane (Surr)</i>	108		60 - 130

QC Association Summary

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

Job ID: 380-153634-1
SDG: Weekly

GC/MS Semi VOA

Prep Batch: 156228

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-153634-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	525.2	
380-153634-3	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Water	525.2	
MB 380-156228/21-A	Method Blank	Total/NA	Water	525.2	
LCS 380-156228/23-A	Lab Control Sample	Total/NA	Water	525.2	
LCSD 380-156228/24-A	Lab Control Sample Dup	Total/NA	Water	525.2	
MRL 380-156228/22-A	Lab Control Sample	Total/NA	Water	525.2	
380-153638-E-1-A MS	Matrix Spike	Total/NA	Water	525.2	
380-152936-F-1-A DU	Duplicate	Total/NA	Water	525.2	

Analysis Batch: 156514

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-153634-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	525.2	156228
380-153634-3	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Water	525.2	156228
MB 380-156228/21-A	Method Blank	Total/NA	Water	525.2	156228
LCS 380-156228/23-A	Lab Control Sample	Total/NA	Water	525.2	156228
LCSD 380-156228/24-A	Lab Control Sample Dup	Total/NA	Water	525.2	156228
MRL 380-156228/22-A	Lab Control Sample	Total/NA	Water	525.2	156228
380-153638-E-1-A MS	Matrix Spike	Total/NA	Water	525.2	156228
380-152936-F-1-A DU	Duplicate	Total/NA	Water	525.2	156228

Prep Batch: 579214

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-153634-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	625.1	
380-153634-3	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Water	625.1	
MB 570-579214/1-A	Method Blank	Total/NA	Water	625.1	
LCS 570-579214/2-A	Lab Control Sample	Total/NA	Water	625.1	
LCSD 570-579214/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	
570-232947-B-1-A MS	Matrix Spike	Total/NA	Water	625.1	
570-232947-B-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	625.1	

Analysis Batch: 579962

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-579214/1-A	Method Blank	Total/NA	Water	625.1 SIM	579214
LCS 570-579214/2-A	Lab Control Sample	Total/NA	Water	625.1 SIM	579214
LCSD 570-579214/3-A	Lab Control Sample Dup	Total/NA	Water	625.1 SIM	579214
570-232947-B-1-A MS	Matrix Spike	Total/NA	Water	625.1 SIM	579214
570-232947-B-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	625.1 SIM	579214

Analysis Batch: 583464

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-153634-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	625.1 SIM	579214
380-153634-3	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Water	625.1 SIM	579214

Analysis Batch: 585171

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-153634-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	625.1	579214
380-153634-3	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Water	625.1	579214
MB 570-579214/1-A	Method Blank	Total/NA	Water	625.1	579214

QC Association Summary

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

Job ID: 380-153634-1
SDG: Weekly

GC VOA

Analysis Batch: 582499

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-153634-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	8015B GRO LL	
380-153634-2	TB: AIEA GULCH WELLS PUMP 1 (331-201-TPC	Total/NA	Drinking Water	8015B GRO LL	
380-153634-3	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Water	8015B GRO LL	
380-153634-4	TB: AIEA GULCH WELLS PUMP 2 (331-202-TPC	Total/NA	Water	8015B GRO LL	
MB 570-582499/6	Method Blank	Total/NA	Water	8015B GRO LL	
LCS 570-582499/4	Lab Control Sample	Total/NA	Water	8015B GRO LL	
LCSD 570-582499/5	Lab Control Sample Dup	Total/NA	Water	8015B GRO LL	
MRL 570-582499/3	Lab Control Sample	Total/NA	Water	8015B GRO LL	
380-153626-C-3 MS	Matrix Spike	Total/NA	Water	8015B GRO LL	
380-153626-C-3 MSD	Matrix Spike Duplicate	Total/NA	Water	8015B GRO LL	

GC Semi VOA

Prep Batch: 581117

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-153634-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	3510C	
380-153634-3	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Water	3510C	
MB 570-581117/1-A	Method Blank	Total/NA	Water	3510C	
LCS 570-581117/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 570-581117/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MRL 570-581117/4-A	Lab Control Sample	Total/NA	Water	3510C	
380-153626-B-3-A MS	Matrix Spike	Total/NA	Water	3510C	
380-153626-B-3-B MSD	Matrix Spike Duplicate	Total/NA	Water	3510C	

Analysis Batch: 584442

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-153634-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	8015B	581117
380-153634-3	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Water	8015B	581117
MB 570-581117/1-A	Method Blank	Total/NA	Water	8015B	581117
LCS 570-581117/2-A	Lab Control Sample	Total/NA	Water	8015B	581117
LCSD 570-581117/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	581117
MRL 570-581117/4-A	Lab Control Sample	Total/NA	Water	8015B	581117
380-153626-B-3-A MS	Matrix Spike	Total/NA	Water	8015B	581117
380-153626-B-3-B MSD	Matrix Spike Duplicate	Total/NA	Water	8015B	581117

Lab Chronicle

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

Job ID: 380-153634-1
SDG: Weekly

**Client Sample ID: AIEA GULCH WELLS PUMP 1
(331-201-TP071)**

Lab Sample ID: 380-153634-1

Date Collected: 06/02/25 10:15

Matrix: Drinking Water

Date Received: 06/04/25 09:47

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			156228	OTM3	EA POM	06/05/25 07:54
Total/NA	Analysis	525.2		1	156514	Q8LA	EA POM	06/06/25 15:34
Total/NA	Prep	625.1			579214	H1SH	EET CAL 4	06/05/25 04:36
Total/NA	Analysis	625.1		1	585171	CG	EET CAL 4	06/17/25 20:35
Total/NA	Prep	625.1			579214	H1SH	EET CAL 4	06/05/25 04:36
Total/NA	Analysis	625.1 SIM		1	583464	J7WE	EET CAL 4	06/13/25 02:58
Total/NA	Analysis	8015B GRO LL		1	582499	A9VE	EET CAL 4	06/11/25 19:32
Total/NA	Prep	3510C			581117	TVD6	EET CAL 4	06/08/25 09:03
Total/NA	Analysis	8015B		1	584442	H6FE	EET CAL 4	06/16/25 22:12

**Client Sample ID: TB: AIEA GULCH WELLS PUMP 1
(331-201-TP071)**

Lab Sample ID: 380-153634-2

Date Collected: 06/02/25 10:15

Matrix: Drinking Water

Date Received: 06/04/25 09:47

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015B GRO LL		1	582499	A9VE	EET CAL 4	06/11/25 13:32

**Client Sample ID: AIEA GULCH WELLS PUMP 2
(331-202-TP072)**

Lab Sample ID: 380-153634-3

Date Collected: 06/02/25 10:25

Matrix: Water

Date Received: 06/04/25 09:47

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			156228	OTM3	EA POM	06/05/25 07:54
Total/NA	Analysis	525.2		1	156514	Q8LA	EA POM	06/06/25 15:55
Total/NA	Prep	625.1			579214	H1SH	EET CAL 4	06/05/25 04:36
Total/NA	Analysis	625.1		1	585171	CG	EET CAL 4	06/17/25 20:59
Total/NA	Prep	625.1			579214	H1SH	EET CAL 4	06/05/25 04:36
Total/NA	Analysis	625.1 SIM		1	583464	J7WE	EET CAL 4	06/13/25 03:20
Total/NA	Analysis	8015B GRO LL		1	582499	A9VE	EET CAL 4	06/11/25 19:07
Total/NA	Prep	3510C			581117	TVD6	EET CAL 4	06/08/25 09:03
Total/NA	Analysis	8015B		1	584442	H6FE	EET CAL 4	06/16/25 22:33

**Client Sample ID: TB: AIEA GULCH WELLS PUMP 2
(331-202-TP072)**

Lab Sample ID: 380-153634-4

Date Collected: 06/02/25 10:25

Matrix: Water

Date Received: 06/04/25 09:47

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015B GRO LL		1	582499	A9VE	EET CAL 4	06/11/25 15:36

Lab Chronicle

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

Job ID: 380-153634-1
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: 380-153634-1
 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
525.2	525.2	Water	1 Methylnaphthalene
525.2	525.2	Water	2,4'-DDD
525.2	525.2	Water	2,4'-DDE
525.2	525.2	Water	2,4'-DDT
525.2	525.2	Water	2,4-Dinitrotoluene
525.2	525.2	Water	2,6-Dinitrotoluene
525.2	525.2	Water	2-Methylnaphthalene
525.2	525.2	Water	4,4'-DDD
525.2	525.2	Water	4,4'-DDE
525.2	525.2	Water	4,4'-DDT
525.2	525.2	Water	Acetochlor

Accreditation/Certification Summary

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

Job ID: 380-153634-1
 SDG: Weekly

Laboratory: Eurofins Eaton Analytical Pomona (Continued)

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

Authority	Program	Identification Number	Expiration Date
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
525.2	525.2	Water	alpha-BHC
525.2	525.2	Water	alpha-Chlordane
525.2	525.2	Water	beta-BHC
525.2	525.2	Water	Chlorobenzilate
525.2	525.2	Water	Chloroneb
525.2	525.2	Water	Chlorothalonil (Draconil, Bravo)
525.2	525.2	Water	Chlorpyrifos
525.2	525.2	Water	delta-BHC
525.2	525.2	Water	Diclorvos (DDVP)
525.2	525.2	Water	Endosulfan I (Alpha)
525.2	525.2	Water	Endosulfan II (Beta)
525.2	525.2	Water	Endosulfan sulfate
525.2	525.2	Water	Endrin aldehyde
525.2	525.2	Water	EPTC
525.2	525.2	Water	gamma-Chlordane
525.2	525.2	Water	Isophorone
525.2	525.2	Water	Malathion
525.2	525.2	Water	Parathion
525.2	525.2	Water	Pendimethalin (Penoxaline)
525.2	525.2	Water	Terbacil
525.2	525.2	Water	Terbutylazine
525.2	525.2	Water	Total Permethrin (mixed isomers)
525.2	525.2	Water	trans-Nonachlor

Laboratory: Eurofins Calscience

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

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	7296.01	11-30-26
Alaska (UST)	State	25-005	03-02-26
Arizona	State	AZ0830	11-16-25
Arkansas DEQ	State	88-01672	07-02-25
California	Los Angeles County Sanitation Districts	9257304	07-31-26
California	SCAQMD LAP	17LA0919	11-30-25
California	State	3082	07-31-25
Kansas	NELAP	E-10420	07-31-25
Nevada	State	CA00111	07-31-25
Oregon	NELAP	4175	02-02-26
USDA	US Federal Programs	525-23-159-97150	06-08-26
Utah	NELAP	CA00111	02-28-26
Washington	State	C916	10-11-25

Method Summary

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

Job ID: 380-153634-1
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: 380-153634-1
SDG: Weekly

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	PWSID Number
380-153634-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Drinking Water	06/02/25 10:15	06/04/25 09:47	HI0000331
380-153634-2	TB: AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Drinking Water	06/02/25 10:15	06/04/25 09:47	
380-153634-3	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Water	06/02/25 10:25	06/04/25 09:47	HI0000331
380-153634-4	TB: AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Water	06/02/25 10:25	06/04/25 09:47	


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Chain of Custody Record

Client Information		Lab PII: Arada, Rachelle		Carrier Tracking No(s): 380-28005-2757 1	
Client Contact: Kirik Iwamoto		E-Mail: Rachelle.Arada@et.eurofins.com		Page: Page 1 of 1	
Company: City & County of Honolulu		PW/SID:		Job #:	
Address: 630 South Beretania Street Chemistry Lab Honolulu HI 96843		Due Date Requested: TAT Requested (days):		Preservation Codes: R - NaTHIOSO4 RA - NaTHIOHCl G - Na2SO3 GA - Na2SO3/HCl Y - Trizma I - NH4 Acetate	
State, Zip: HI 96843		Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Other:	
Phone: 808-748-5840 (Tel)		PO #: C20525101 exp 05312023		Total Number of Containers: <input checked="" type="checkbox"/>	
Email: kiwamoto@hbws.org		WO #:		Special Instructions/Note:	
Project Name: RED-HILL/HBWS Sites Event Desc: RUSH Weekly Red Hill		Project #: 38001111		360-153634 COC	
Site: Hawaii		SSOW#:		537 1 DW_PREC - 537 1 Full List	
Sample Identification		Sample Date		537 2 PREC - (MOD) 526 Plus Plus TICs	
Aiea Gulch Pump 1	Sample Type (C=Comp, G=grab)	Sample Time	Sample Date	537 3 PREC - (MOD) 526 Plus Plus TICs	537 4 DW_PREC - 537 1 Full List
Aiea Gulch Pump 1 (Matrix Spike)	Preservation Code:	1015	2-Jun-2025	537 5 PREC - (MOD) 526 Plus Plus TICs	537 6 DW_PREC - 537 1 Full List
Aiea Gulch Pump 1 (Matrix Spike Duplicate)	Matrix (Water, G=Solid, O=Water, A=Air)	1015	2-Jun-2025	537 7 PREC - (MOD) 526 Plus Plus TICs	537 8 DW_PREC - 537 1 Full List
TB: Aiea Gulch Pump 1	Water	1015	2-Jun-2025	537 9 PREC - (MOD) 526 Plus Plus TICs	537 10 DW_PREC - 537 1 Full List
Aiea Gulch Pump 2	Water	1025	2-Jun-2025	537 11 PREC - (MOD) 526 Plus Plus TICs	537 12 DW_PREC - 537 1 Full List
Aiea Gulch Pump 2 (Matrix Spike)	Water	1025	2-Jun-2025	537 13 PREC - (MOD) 526 Plus Plus TICs	537 14 DW_PREC - 537 1 Full List
Aiea Gulch Pump 2 (Matrix Spike Duplicate)	Water	1025	2-Jun-2025	537 15 PREC - (MOD) 526 Plus Plus TICs	537 16 DW_PREC - 537 1 Full List
TB: Aiea Gulch Pump 2	Water	1025	2-Jun-2025	537 17 PREC - (MOD) 526 Plus Plus TICs	537 18 DW_PREC - 537 1 Full List
Possible Hazard Identification		<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
Deliverable Requested I, II, III, IV Other (specify)		Date: 6-3-25 1100		<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	
Empty Kit Relinquished by: [Redacted]		Date: 6-3-25 1100		Special Instructions/QC Requirements: FE050 8817 4366 2837	
Relinquished by: [Redacted]		Date: 6-3-25 1100		Method of Shipment: FE050 8817 4366 2837	
Relinquished by: [Redacted]		Date: 6-3-25 1100		Received by: [Signature] Date/Time: 06/04/25 09:47 Company: EEPAL	
Relinquished by: [Redacted]		Date: 6-3-25 1100		Received by: [Signature] Date/Time: 06/04/25 09:47 Company: EEPAL	
Custody Seals Intact: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Custody Seal No		Colder Temperature(s) °C and Other Remarks: (75.4) (3.0-0.0-3.0) (2) 1.4-0.0-1.4 °C EEPAL	



Chain of Custody Record

Client Information		Lab PII: Arada, Rachelle		Carrier Tracking No(s): 380-28005-2757 1	
Client Contact: Kirik Iwamoto		E-Mail: Rachelle.Arada@et.eurofins.com		Page: Page 1 of 1	
Company: City & County of Honolulu		PW/SID:		Job #:	
Address: 630 South Beretania Street Chemistry Lab Honolulu HI 96843		Due Date Requested: TAT Requested (days):		Preservation Codes: R - NaThioSO4 RA - NaThioHCl G - Na2SO3 GA - Na2SO3/HCl Y - Trizma I - NH4 Acetate	
State, Zip: HI 96843		Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Other:	
Phone: 808-748-5840 (Tel)		PO #: C20525101 exp 05312023		Total Number of Containers:	
Email: kiwamoto@hbws.org		WO #:		380-153634 COC	
Project Name: RED-HILL/HBWS Sites Event Desc: RUSH Weekly Red Hill		Project #: 38001111		QR Code: 	
Site: Hawaii		SSOW#:		Special Instructions/Note:	

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Preservation Code	Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		Analysis Requested		Special Instructions/Note
					R	RA	Q	QA	Y	I		R	RA	Q	QA	Y	I
Aiea Gulch Pump 1	2-Jun-2025	1015	Water	Water					537 1 DW_PREC - 537 1 Full List	537 1 All Analytes	
Aiea Gulch Pump 1 (Matrix Spike)			Water	Water							
Aiea Gulch Pump 1 (Matrix Spike Duplicate)			Water	Water							
TB: Aiea Gulch Pump 1	2-Jun-2025	1015	Water	Water							*detection no fall
Aiea Gulch Pump 2	2-Jun-2025	1025	Water	Water							
Aiea Gulch Pump 2 (Matrix Spike)			Water	Water							
Aiea Gulch Pump 2 (Matrix Spike Duplicate)			Water	Water							
TB: Aiea Gulch Pump 2	2-Jun-2025	1025	Water	Water							*detection no fall

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
 Special Instructions/QC Requirements: FE050 8817 4366 2837

Empty Kit Relinquished by:	Date:	Time:
Relinquished by: [Redacted]	Date/Time: 6-3-25 1100	Company: [Redacted]
Relinquished by:	Date/Time:	Company:
Relinquished by:	Date/Time:	Company:

Custody Seals Intact: Yes No
 Custody Seal No: (7514) 3.0°-0.0°-3.0° (2) 1.4°-0.0°-1.4° 66-PP-022



Eurofins Eaton Analytical Pomona

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

Chain of Custody Record



eurofins

Loc: 380
 En 153634

Client Information (Sub Contract Lab)		Sampler: N/A	Lab PM: Lopez, Maria	Carrier Tracking No(s): N/A	COC No: 380-219004.1																																			
Client Contact: Shipping/Receiving		Phone: N/A	E-Mail: Maria.Lopez@et.eurofinsus.com	State of Origin: Hawaii	Page: Page 1 of 1																																			
Company: Eurofins Environment Testing Southwest, Address: 2841 Dow Avenue, Suite 100, City: Tustin State, Zip: CA, 92780 Phone: 714-895-5494(Tel) Email: N/A Project Name: RED-HILL Site: Honolulu BWS Sites			Accreditations Required (See note): State - Hawaii		Job #: 380-153634-1																																			
Due Date Requested: 6/17/2025		Analysis Requested			Preservation Codes:																																			
TAT Requested (days): N/A		<table border="1"> <tr> <td>PAH Filtered Sample (Yes or No)</td> <td>PAH Non Filtered Sample (Yes or No)</td> <td>8018B_DRO_LL_CS0510C_LL_HNL_Range: C-10</td> <td>324C24-C36C3-C-16</td> <td>625_1_SMM25_Prep (MOD) Extended PAH List</td> <td>8018B_GRO_LLJ030C (MOD) GRO</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>			PAH Filtered Sample (Yes or No)	PAH Non Filtered Sample (Yes or No)	8018B_DRO_LL_CS0510C_LL_HNL_Range: C-10	324C24-C36C3-C-16	625_1_SMM25_Prep (MOD) Extended PAH List	8018B_GRO_LLJ030C (MOD) GRO																									Other: N/A					
PAH Filtered Sample (Yes or No)	PAH Non Filtered Sample (Yes or No)				8018B_DRO_LL_CS0510C_LL_HNL_Range: C-10	324C24-C36C3-C-16	625_1_SMM25_Prep (MOD) Extended PAH List	8018B_GRO_LLJ030C (MOD) GRO																																
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Sample ID (Lab ID)	Sample Date				Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=soil/sediment, A=air)	Preservation Code:	Special Instructions/Note:																															
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TB: AIEA GULCH WELLS PUMP 1 (331-201-TP071) (380-153634-2)	6/2/25				10:15 Hawaiian	G	Water	X	MRLs are needed.																															
AIEA GULCH WELLS PUMP 2 (331-202-TP072) (380-153634-3)	6/2/25	10:25 Hawaiian	G	Water	X X X	MRLs are needed. Confirm any hits >RL.																																		
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WO #: N/A																																								
Project #: 38001111																																								
SSOW #: N/A																																								



Note: Since laboratory accreditations are subject to change, Eurofins Eaton Analytical, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Eaton Analytical, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Eaton Analytical, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Eaton Analytical, LLC.

Possible Hazard Identification		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
Unconfirmed		<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	
Deliverable Requested: I, II, III, IV, Other (specify)		Special Instructions/QC Requirements:	

Empty Kit Relinquished by:		Date:	Time:	Method of Shipment:	
Relinquished by: <i>[Signature]</i>	Date/Time: 06/04/25 15:10	Company: EEP	Received by: <i>[Signature]</i>	Date/Time: 6-4-25 15:10	Company: WP
Relinquished by: <i>[Signature]</i>	Date/Time: 6-4-25 16:04	Company: WP	Received by: <i>[Signature]</i>	Date/Time: 6-4-25 16:04	Company: EC
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 1.3 / 1.8 seal			

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Eurofins Eaton Analytical Pomona

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

Chain of Custody Record



eurofins

Loc: 380
En 153634

Client Information (Sub Contract Lab)		Sampler: N/A	Lab PM: Lopez, Maria	Carrier Tracking No(s): N/A	COC No: 380-219004.1																																			
Client Contact: Shipping/Receiving		Phone: N/A	E-Mail: Maria.Lopez@et.eurofinsus.com	State of Origin: Hawaii	Page: Page 1 of 1																																			
Company: Eurofins Environment Testing Southwest, Address: 2841 Dow Avenue, Suite 100, City: Tustin State, Zip: CA, 92780 Phone: 714-895-5494(Tel) Email: N/A Project Name: RED-HILL Site: Honolulu BWS Sites			Accreditations Required (See note): State - Hawaii		Job #: 380-153634-1																																			
Due Date Requested: 6/17/2025		Analysis Requested			Preservation Codes:																																			
TAT Requested (days): N/A		<table border="1"> <tr> <td>PAH Filtered Sample (Yes or No)</td> <td>PAH Non Filtered Sample (Yes or No)</td> <td>8018B_DRO_LL_CS0510C_LL_HNL_Range: C-10</td> <td>324C24-C36C3-C-16</td> <td>625_1_SMM25_Prep (MOD) Extended PAH List</td> <td>8018B_GRO_LLJ030C (MOD) GRO</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>			PAH Filtered Sample (Yes or No)	PAH Non Filtered Sample (Yes or No)	8018B_DRO_LL_CS0510C_LL_HNL_Range: C-10	324C24-C36C3-C-16	625_1_SMM25_Prep (MOD) Extended PAH List	8018B_GRO_LLJ030C (MOD) GRO																									Other: N/A					
PAH Filtered Sample (Yes or No)	PAH Non Filtered Sample (Yes or No)				8018B_DRO_LL_CS0510C_LL_HNL_Range: C-10	324C24-C36C3-C-16	625_1_SMM25_Prep (MOD) Extended PAH List	8018B_GRO_LLJ030C (MOD) GRO																																
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Sample Identification - Client ID (Lab ID)	Sample Date				Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=soils/sed, U=unknown)	Preservation Code:	Special Instructions/Note:																															
AIEA GULCH WELLS PUMP 1 (331-201-TP071) (380-153634-1)	6/2/25				10:15 Hawaiian	G	Water	X X X	MRLs are needed. Confirm any hits >RL.																															
TB: AIEA GULCH WELLS PUMP 1 (331-201-TP071) (380-153634-2)	6/2/25				10:15 Hawaiian	G	Water	X X	MRLs are needed.																															
AIEA GULCH WELLS PUMP 2 (331-202-TP072) (380-153634-3)	6/2/25	10:25 Hawaiian	G	Water	X X X	MRLs are needed. Confirm any hits >RL.																																		
TB: AIEA GULCH WELLS PUMP 2 (331-202-TP072) (380-153634-4)	6/2/25	10:25 Hawaiian	G	Water	X	MRLs are needed.																																		
WO #: N/A																																								
Project #: 38001111																																								
SSOW #: N/A																																								



Note: Since laboratory accreditations are subject to change, Eurofins Eaton Analytical, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Eaton Analytical, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Eaton Analytical, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Eaton Analytical, LLC.

Possible Hazard Identification		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
Unconfirmed		<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	
Deliverable Requested: I, II, III, IV, Other (specify)		Special Instructions/QC Requirements:	

Empty Kit Relinquished by:		Date:	Time:	Method of Shipment:	
Relinquished by: <i>[Signature]</i>	Date/Time: 06/04/25 15:10	Company: EENP	Received by: <i>[Signature]</i>	Date/Time: 6-4-25 15:10	Company: WP
Relinquished by: <i>[Signature]</i>	Date/Time: 6-4-25 16:04	Company: WP	Received by: <i>[Signature]</i>	Date/Time: 6-4-25 16:04	Company: EC
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 1.3 / 1.8 seal			

Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-153634-1

SDG Number: Weekly

Login Number: 153634

List Number: 1

Creator: Segura, Ryan

List Source: Eurofins Eaton Analytical Pomona

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



Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-153634-1

SDG Number: Weekly

Login Number: 153634

List Number: 2

Creator: Khana, Piyush

List Source: Eurofins Calscience

List Creation: 06/04/25 05:59 PM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	