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ANALYTICAL REPORT

PREPARED FOR

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City & County of Honolulu
630 South Beretania Street
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Honolulu, Hawaii 96843

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JOB DESCRIPTION

RED-HILL
Weekly
RUSH Weekly Red Hill

JOB NUMBER

380-128740-1

Eurofins Eaton Analytical Pomona

Job Notes

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

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

Compliance Statement

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

Authorization



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Definitions/Glossary

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

Job ID: 380-128740-1
SDG: Weekly

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
^3+	Reporting Limit Check Standard is outside acceptance limits, high biased
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA TICs

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

Glossary

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

Case Narrative

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

Job ID: 380-128740-1

Job ID: 380-128740-1

Eurofins Eaton Analytical Pomona

Job Narrative 380-128740-1

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 1/7/2025 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 4.1°C and 5.3°C.

Receipt Exceptions

Methods 625, 625.1, 625.1 SIM, 8015B: The following sample(s) was received with less than 2 days remaining on the holding time or less than one shift (8 hours) remaining on a test with a holding time of 48 hours or less. As such, the laboratory had insufficient time remaining to perform the analysis within holding time: AIEA GULCH WELLS PUMP 1 (331-201-TP071) (380-128740-1) and AIEA GULCH WELLS PUMP 2 (331-202-TP072) (380-128740-2). Method cancelled due to this issue.

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.

Detection Summary

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

Job ID: 380-128740-1
SDG: Weekly

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

Lab Sample ID: 380-128740-1

No Detections.

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

Lab Sample ID: 380-128740-2

No Detections.

Client Sample ID: TB:AIEA GULCH WELLS P1 (331-201-TP071)

Lab Sample ID: 380-128740-3

No Detections.

Client Sample ID: TB:AIEA GULCH WELLS P2 (331-202-TP072)

Lab Sample ID: 380-128740-4

No Detections.

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: 380-128740-1
SDG: Weekly

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

Lab Sample ID: 380-128740-1

Date Collected: 12/30/24 10:13

Matrix: Drinking Water

Date Received: 01/07/25 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	<0.10		0.10	ug/L		01/08/25 07:51	01/08/25 17:07	1
2,4'-DDD	<0.10		0.10	ug/L		01/08/25 07:51	01/08/25 17:07	1
2,4'-DDE	<0.10		0.10	ug/L		01/08/25 07:51	01/08/25 17:07	1
2,4'-DDT	<0.10		0.10	ug/L		01/08/25 07:51	01/08/25 17:07	1
2,4-Dinitrotoluene	<0.10		0.10	ug/L		01/08/25 07:51	01/08/25 17:07	1
2,6-Dinitrotoluene	<0.10		0.10	ug/L		01/08/25 07:51	01/08/25 17:07	1
2-Methylnaphthalene	<0.10		0.10	ug/L		01/08/25 07:51	01/08/25 17:07	1
4,4'-DDD	<0.10		0.10	ug/L		01/08/25 07:51	01/08/25 17:07	1
4,4'-DDE	<0.10		0.10	ug/L		01/08/25 07:51	01/08/25 17:07	1
4,4'-DDT	<0.10		0.10	ug/L		01/08/25 07:51	01/08/25 17:07	1
Acenaphthene	<0.10		0.10	ug/L		01/08/25 07:51	01/08/25 17:07	1
Acenaphthylene	<0.10		0.10	ug/L		01/08/25 07:51	01/08/25 17:07	1
Acetochlor	<0.10		0.10	ug/L		01/08/25 07:51	01/08/25 17:07	1
Alachlor	<0.050		0.050	ug/L		01/08/25 07:51	01/08/25 17:07	1
alpha-BHC	<0.10		0.10	ug/L		01/08/25 07:51	01/08/25 17:07	1
alpha-Chlordane	<0.050		0.050	ug/L		01/08/25 07:51	01/08/25 17:07	1
Anthracene	<0.020		0.020	ug/L		01/08/25 07:51	01/08/25 17:07	1
Atrazine	<0.050		0.050	ug/L		01/08/25 07:51	01/08/25 17:07	1
Benz(a)anthracene	<0.050		0.050	ug/L		01/08/25 07:51	01/08/25 17:07	1
Benzo[a]pyrene	<0.020		0.020	ug/L		01/08/25 07:51	01/08/25 17:07	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		01/08/25 07:51	01/08/25 17:07	1
Benzo[g,h,i]perylene	<0.050		0.050	ug/L		01/08/25 07:51	01/08/25 17:07	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		01/08/25 07:51	01/08/25 17:07	1
beta-BHC	<0.10		0.10	ug/L		01/08/25 07:51	01/08/25 17:07	1
Bis(2-ethylhexyl) phthalate	<0.60		0.60	ug/L		01/08/25 07:51	01/08/25 17:07	1
Bromacil	<0.10		0.10	ug/L		01/08/25 07:51	01/08/25 17:07	1
Butachlor	<0.050		0.050	ug/L		01/08/25 07:51	01/08/25 17:07	1
Butylbenzylphthalate	<0.50		0.50	ug/L		01/08/25 07:51	01/08/25 17:07	1
Chlorobenzilate	<0.10		0.10	ug/L		01/08/25 07:51	01/08/25 17:07	1
Chloroneb	<0.10		0.10	ug/L		01/08/25 07:51	01/08/25 17:07	1
Chlorothalonil (Draconil, Bravo)	<0.10		0.10	ug/L		01/08/25 07:51	01/08/25 17:07	1
Chlorpyrifos	<0.050		0.050	ug/L		01/08/25 07:51	01/08/25 17:07	1
Chrysene	<0.020		0.020	ug/L		01/08/25 07:51	01/08/25 17:07	1
delta-BHC	<0.10		0.10	ug/L		01/08/25 07:51	01/08/25 17:07	1
Di(2-ethylhexyl)adipate	<0.60		0.60	ug/L		01/08/25 07:51	01/08/25 17:07	1
Dibenz(a,h)anthracene	<0.050		0.050	ug/L		01/08/25 07:51	01/08/25 17:07	1
Diclorvos (DDVP)	<0.050		0.050	ug/L		01/08/25 07:51	01/08/25 17:07	1
Dieldrin	<0.010		0.010	ug/L		01/08/25 07:51	01/08/25 17:07	1
Diethylphthalate	<0.50		0.50	ug/L		01/08/25 07:51	01/08/25 17:07	1
Dimethylphthalate	<0.50		0.50	ug/L		01/08/25 07:51	01/08/25 17:07	1
Di-n-butyl phthalate	<1.0		1.0	ug/L		01/08/25 07:51	01/08/25 17:07	1
Di-n-octyl phthalate	<0.10		0.10	ug/L		01/08/25 07:51	01/08/25 17:07	1
Endosulfan I (Alpha)	<0.10		0.10	ug/L		01/08/25 07:51	01/08/25 17:07	1
Endosulfan II (Beta)	<0.10		0.10	ug/L		01/08/25 07:51	01/08/25 17:07	1
Endosulfan sulfate	<0.10		0.10	ug/L		01/08/25 07:51	01/08/25 17:07	1
Endrin	<0.010		0.010	ug/L		01/08/25 07:51	01/08/25 17:07	1
Endrin aldehyde	<0.10		0.10	ug/L		01/08/25 07:51	01/08/25 17:07	1
EPTC	<0.10		0.10	ug/L		01/08/25 07:51	01/08/25 17:07	1

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Client Sample Results

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

Job ID: 380-128740-1
SDG: Weekly

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

Lab Sample ID: 380-128740-1

Date Collected: 12/30/24 10:13

Matrix: Drinking Water

Date Received: 01/07/25 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	<0.10		0.10	ug/L		01/08/25 07:51	01/08/25 17:07	1
Fluorene	<0.050		0.050	ug/L		01/08/25 07:51	01/08/25 17:07	1
gamma-Chlordane	<0.050		0.050	ug/L		01/08/25 07:51	01/08/25 17:07	1
Heptachlor	<0.010		0.010	ug/L		01/08/25 07:51	01/08/25 17:07	1
Heptachlor epoxide (isomer B)	<0.010		0.010	ug/L		01/08/25 07:51	01/08/25 17:07	1
Hexachlorobenzene	<0.050		0.050	ug/L		01/08/25 07:51	01/08/25 17:07	1
Hexachlorocyclopentadiene	<0.050		0.050	ug/L		01/08/25 07:51	01/08/25 17:07	1
Indeno[1,2,3-cd]pyrene	<0.050		0.050	ug/L		01/08/25 07:51	01/08/25 17:07	1
Isophorone	<0.10		0.10	ug/L		01/08/25 07:51	01/08/25 17:07	1
Lindane	<0.010	^3+	0.010	ug/L		01/08/25 07:51	01/08/25 17:07	1
Malathion	<0.10		0.10	ug/L		01/08/25 07:51	01/08/25 17:07	1
Methoxychlor	<0.050		0.050	ug/L		01/08/25 07:51	01/08/25 17:07	1
Metolachlor	<0.050		0.050	ug/L		01/08/25 07:51	01/08/25 17:07	1
Molinate	<0.10		0.10	ug/L		01/08/25 07:51	01/08/25 17:07	1
Naphthalene	<0.10		0.10	ug/L		01/08/25 07:51	01/08/25 17:07	1
Parathion	<0.10		0.10	ug/L		01/08/25 07:51	01/08/25 17:07	1
Pendimethalin (Penoxaline)	<0.10		0.10	ug/L		01/08/25 07:51	01/08/25 17:07	1
Phenanthrene	<0.040		0.040	ug/L		01/08/25 07:51	01/08/25 17:07	1
Propachlor	<0.050		0.050	ug/L		01/08/25 07:51	01/08/25 17:07	1
Pyrene	<0.050		0.050	ug/L		01/08/25 07:51	01/08/25 17:07	1
Simazine	<0.050		0.050	ug/L		01/08/25 07:51	01/08/25 17:07	1
Terbacil	<0.10		0.10	ug/L		01/08/25 07:51	01/08/25 17:07	1
Terbutylazine	<0.10		0.10	ug/L		01/08/25 07:51	01/08/25 17:07	1
Thiobencarb	<0.10		0.10	ug/L		01/08/25 07:51	01/08/25 17:07	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		01/08/25 07:51	01/08/25 17:07	1
trans-Nonachlor	<0.050		0.050	ug/L		01/08/25 07:51	01/08/25 17:07	1
Trifluralin	<0.10		0.10	ug/L		01/08/25 07:51	01/08/25 17:07	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	01/08/25 07:51	01/08/25 17:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	92		70 - 130	01/08/25 07:51	01/08/25 17:07	1
Perylene-d12	85		70 - 130	01/08/25 07:51	01/08/25 17:07	1
Triphenylphosphate	108		70 - 130	01/08/25 07:51	01/08/25 17:07	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			01/09/25 18:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		38 - 134		01/09/25 18:17	1

Client Sample Results

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

Job ID: 380-128740-1
SDG: Weekly

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

Lab Sample ID: 380-128740-2

Date Collected: 12/30/24 10:34

Matrix: Drinking Water

Date Received: 01/07/25 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	<0.098		0.098	ug/L		01/08/25 07:51	01/08/25 21:32	1
2,4'-DDD	<0.098		0.098	ug/L		01/08/25 07:51	01/08/25 21:32	1
2,4'-DDE	<0.098		0.098	ug/L		01/08/25 07:51	01/08/25 21:32	1
2,4'-DDT	<0.098		0.098	ug/L		01/08/25 07:51	01/08/25 21:32	1
2,4-Dinitrotoluene	<0.098		0.098	ug/L		01/08/25 07:51	01/08/25 21:32	1
2,6-Dinitrotoluene	<0.098		0.098	ug/L		01/08/25 07:51	01/08/25 21:32	1
2-Methylnaphthalene	<0.098		0.098	ug/L		01/08/25 07:51	01/08/25 21:32	1
4,4'-DDD	<0.098		0.098	ug/L		01/08/25 07:51	01/08/25 21:32	1
4,4'-DDE	<0.098		0.098	ug/L		01/08/25 07:51	01/08/25 21:32	1
4,4'-DDT	<0.098		0.098	ug/L		01/08/25 07:51	01/08/25 21:32	1
Acenaphthene	<0.098		0.098	ug/L		01/08/25 07:51	01/08/25 21:32	1
Acenaphthylene	<0.098		0.098	ug/L		01/08/25 07:51	01/08/25 21:32	1
Acetochlor	<0.098		0.098	ug/L		01/08/25 07:51	01/08/25 21:32	1
Alachlor	<0.049		0.049	ug/L		01/08/25 07:51	01/08/25 21:32	1
alpha-BHC	<0.098		0.098	ug/L		01/08/25 07:51	01/08/25 21:32	1
alpha-Chlordane	<0.049		0.049	ug/L		01/08/25 07:51	01/08/25 21:32	1
Anthracene	<0.020		0.020	ug/L		01/08/25 07:51	01/08/25 21:32	1
Atrazine	<0.049		0.049	ug/L		01/08/25 07:51	01/08/25 21:32	1
Benz(a)anthracene	<0.049		0.049	ug/L		01/08/25 07:51	01/08/25 21:32	1
Benzo[a]pyrene	<0.020		0.020	ug/L		01/08/25 07:51	01/08/25 21:32	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		01/08/25 07:51	01/08/25 21:32	1
Benzo[g,h,i]perylene	<0.049		0.049	ug/L		01/08/25 07:51	01/08/25 21:32	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		01/08/25 07:51	01/08/25 21:32	1
beta-BHC	<0.098		0.098	ug/L		01/08/25 07:51	01/08/25 21:32	1
Bis(2-ethylhexyl) phthalate	<0.59		0.59	ug/L		01/08/25 07:51	01/08/25 21:32	1
Bromacil	<0.098		0.098	ug/L		01/08/25 07:51	01/08/25 21:32	1
Butachlor	<0.049		0.049	ug/L		01/08/25 07:51	01/08/25 21:32	1
Butylbenzylphthalate	<0.49		0.49	ug/L		01/08/25 07:51	01/08/25 21:32	1
Chlorobenzilate	<0.098		0.098	ug/L		01/08/25 07:51	01/08/25 21:32	1
Chloroneb	<0.098		0.098	ug/L		01/08/25 07:51	01/08/25 21:32	1
Chlorothalonil (Draconil, Bravo)	<0.098		0.098	ug/L		01/08/25 07:51	01/08/25 21:32	1
Chlorpyrifos	<0.049		0.049	ug/L		01/08/25 07:51	01/08/25 21:32	1
Chrysene	<0.020		0.020	ug/L		01/08/25 07:51	01/08/25 21:32	1
delta-BHC	<0.098		0.098	ug/L		01/08/25 07:51	01/08/25 21:32	1
Di(2-ethylhexyl)adipate	<0.59		0.59	ug/L		01/08/25 07:51	01/08/25 21:32	1
Dibenz(a,h)anthracene	<0.049		0.049	ug/L		01/08/25 07:51	01/08/25 21:32	1
Diclorvos (DDVP)	<0.049		0.049	ug/L		01/08/25 07:51	01/08/25 21:32	1
Dieldrin	<0.0098		0.0098	ug/L		01/08/25 07:51	01/08/25 21:32	1
Diethylphthalate	<0.49		0.49	ug/L		01/08/25 07:51	01/08/25 21:32	1
Dimethylphthalate	<0.49		0.49	ug/L		01/08/25 07:51	01/08/25 21:32	1
Di-n-butyl phthalate	<0.98		0.98	ug/L		01/08/25 07:51	01/08/25 21:32	1
Di-n-octyl phthalate	<0.098		0.098	ug/L		01/08/25 07:51	01/08/25 21:32	1
Endosulfan I (Alpha)	<0.098		0.098	ug/L		01/08/25 07:51	01/08/25 21:32	1
Endosulfan II (Beta)	<0.098		0.098	ug/L		01/08/25 07:51	01/08/25 21:32	1
Endosulfan sulfate	<0.098		0.098	ug/L		01/08/25 07:51	01/08/25 21:32	1
Endrin	<0.0098		0.0098	ug/L		01/08/25 07:51	01/08/25 21:32	1
Endrin aldehyde	<0.098		0.098	ug/L		01/08/25 07:51	01/08/25 21:32	1
EPTC	<0.098		0.098	ug/L		01/08/25 07:51	01/08/25 21:32	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-128740-1
SDG: Weekly

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

Lab Sample ID: 380-128740-2

Date Collected: 12/30/24 10:34

Matrix: Drinking Water

Date Received: 01/07/25 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	<0.098		0.098	ug/L		01/08/25 07:51	01/08/25 21:32	1
Fluorene	<0.049		0.049	ug/L		01/08/25 07:51	01/08/25 21:32	1
gamma-Chlordane	<0.049		0.049	ug/L		01/08/25 07:51	01/08/25 21:32	1
Heptachlor	<0.0098		0.0098	ug/L		01/08/25 07:51	01/08/25 21:32	1
Heptachlor epoxide (isomer B)	<0.0098		0.0098	ug/L		01/08/25 07:51	01/08/25 21:32	1
Hexachlorobenzene	<0.049		0.049	ug/L		01/08/25 07:51	01/08/25 21:32	1
Hexachlorocyclopentadiene	<0.049		0.049	ug/L		01/08/25 07:51	01/08/25 21:32	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049	ug/L		01/08/25 07:51	01/08/25 21:32	1
Isophorone	<0.098		0.098	ug/L		01/08/25 07:51	01/08/25 21:32	1
Lindane	<0.0098	^3+	0.0098	ug/L		01/08/25 07:51	01/08/25 21:32	1
Malathion	<0.098		0.098	ug/L		01/08/25 07:51	01/08/25 21:32	1
Methoxychlor	<0.049		0.049	ug/L		01/08/25 07:51	01/08/25 21:32	1
Metolachlor	<0.049		0.049	ug/L		01/08/25 07:51	01/08/25 21:32	1
Molinate	<0.098		0.098	ug/L		01/08/25 07:51	01/08/25 21:32	1
Naphthalene	<0.098		0.098	ug/L		01/08/25 07:51	01/08/25 21:32	1
Parathion	<0.098		0.098	ug/L		01/08/25 07:51	01/08/25 21:32	1
Pendimethalin (Penoxaline)	<0.098		0.098	ug/L		01/08/25 07:51	01/08/25 21:32	1
Phenanthrene	<0.039		0.039	ug/L		01/08/25 07:51	01/08/25 21:32	1
Propachlor	<0.049		0.049	ug/L		01/08/25 07:51	01/08/25 21:32	1
Pyrene	<0.049		0.049	ug/L		01/08/25 07:51	01/08/25 21:32	1
Simazine	<0.049		0.049	ug/L		01/08/25 07:51	01/08/25 21:32	1
Terbacil	<0.098		0.098	ug/L		01/08/25 07:51	01/08/25 21:32	1
Terbutylazine	<0.098		0.098	ug/L		01/08/25 07:51	01/08/25 21:32	1
Thiobencarb	<0.098		0.098	ug/L		01/08/25 07:51	01/08/25 21:32	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		01/08/25 07:51	01/08/25 21:32	1
trans-Nonachlor	<0.049		0.049	ug/L		01/08/25 07:51	01/08/25 21:32	1
Trifluralin	<0.098		0.098	ug/L		01/08/25 07:51	01/08/25 21:32	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	0.60	T J	ug/L		2.60	N/A	01/08/25 07:51	01/08/25 21:32	1
Decane	1.9	T J N	ug/L		2.73	124-18-5	01/08/25 07:51	01/08/25 21:32	1
Cyclopentasiloxane, decamethyl-	0.50	T J N	ug/L		3.20	541-02-6	01/08/25 07:51	01/08/25 21:32	1
Unknown	1.3	T J	ug/L		3.82	N/A	01/08/25 07:51	01/08/25 21:32	1
9-Octadecenamide, (Z)-	1.1	T J N	ug/L		7.79	301-02-0	01/08/25 07:51	01/08/25 21:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	92		70 - 130	01/08/25 07:51	01/08/25 21:32	1
Perylene-d12	89		70 - 130	01/08/25 07:51	01/08/25 21:32	1
Triphenylphosphate	106		70 - 130	01/08/25 07:51	01/08/25 21:32	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			01/09/25 13:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		38 - 134		01/09/25 13:36	1

Client Sample Results

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

Job ID: 380-128740-1
 SDG: Weekly

Client Sample ID: TB:AIEA GULCH WELLS P1 (331-201-TP071)

Lab Sample ID: 380-128740-3

Date Collected: 12/30/24 10:13

Matrix: Water

Date Received: 01/07/25 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			01/09/25 17:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		38 - 134				01/09/25 17:53	1

Client Sample ID: TB:AIEA GULCH WELLS P2 (331-202-TP072)

Lab Sample ID: 380-128740-4

Date Collected: 12/30/24 10:34

Matrix: Water

Date Received: 01/07/25 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			01/09/25 14:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		38 - 134				01/09/25 14:00	1

Action Limit Summary

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

Job ID: 380-128740-1
SDG: Weekly

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

Lab Sample ID: 380-128740-1

Compliance Check

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

Analyte	Result	Qualifier	Unit	EPAMCL	RL	Method	Prep Type
				Limit			
Alachlor	<0.050		ug/L	2	0.050	525.2	Total/NA
Atrazine	<0.050		ug/L	3	0.050	525.2	Total/NA
Benzo[a]pyrene	<0.020		ug/L	0.2	0.020	525.2	Total/NA
Bis(2-ethylhexyl) phthalate	<0.60		ug/L	6	0.60	525.2	Total/NA
Di(2-ethylhexyl)adipate	<0.60		ug/L	400	0.60	525.2	Total/NA
Endrin	<0.010		ug/L	2	0.010	525.2	Total/NA
Heptachlor	<0.010		ug/L	0.4	0.010	525.2	Total/NA
Heptachlor epoxide (isomer B)	<0.010		ug/L	0.2	0.010	525.2	Total/NA
Hexachlorobenzene	<0.050		ug/L	1	0.050	525.2	Total/NA
Hexachlorocyclopentadiene	<0.050		ug/L	50	0.050	525.2	Total/NA
Lindane	<0.010	^3+	ug/L	0.2	0.010	525.2	Total/NA
Methoxychlor	<0.050		ug/L	40	0.050	525.2	Total/NA
Simazine	<0.050		ug/L	4	0.050	525.2	Total/NA

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

Lab Sample ID: 380-128740-2

Compliance Check

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

Analyte	Result	Qualifier	Unit	EPAMCL	RL	Method	Prep Type
				Limit			
Alachlor	<0.049		ug/L	2	0.049	525.2	Total/NA
Atrazine	<0.049		ug/L	3	0.049	525.2	Total/NA
Benzo[a]pyrene	<0.020		ug/L	0.2	0.020	525.2	Total/NA
Bis(2-ethylhexyl) phthalate	<0.59		ug/L	6	0.59	525.2	Total/NA
Di(2-ethylhexyl)adipate	<0.59		ug/L	400	0.59	525.2	Total/NA
Endrin	<0.0098		ug/L	2	0.0098	525.2	Total/NA
Heptachlor	<0.0098		ug/L	0.4	0.0098	525.2	Total/NA
Heptachlor epoxide (isomer B)	<0.0098		ug/L	0.2	0.0098	525.2	Total/NA
Hexachlorobenzene	<0.049		ug/L	1	0.049	525.2	Total/NA
Hexachlorocyclopentadiene	<0.049		ug/L	50	0.049	525.2	Total/NA
Lindane	<0.0098	^3+	ug/L	0.2	0.0098	525.2	Total/NA
Methoxychlor	<0.049		ug/L	40	0.049	525.2	Total/NA
Simazine	<0.049		ug/L	4	0.049	525.2	Total/NA

Surrogate Summary

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

Job ID: 380-128740-1
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)
380-128740-1	AIEA GULCH WELLS PUMP 1 (92	85	108
380-128740-1 DU	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	92	90	108
380-128740-2	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	92	89	106

Surrogate Legend

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

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		2NMX (70-130)	PRY (70-130)	TPP (70-130)
380-128694-B-1-A MS	Matrix Spike	92	92	110
LCS 380-126788/23-A	Lab Control Sample	93	92	109
LCSD 380-126788/24-A	Lab Control Sample Dup	91	88	109
MB 380-126788/21-A	Method Blank	91	84	107
MRL 380-126788/22-A	Lab Control Sample	92	83	106

Surrogate Legend

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

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)
380-128740-1	AIEA GULCH WELLS PUMP 1 (99
380-128740-2	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	90

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)
		BFB1 (38-134)
380-128740-3	TB:AIEA GULCH WELLS P1 (33	99
380-128740-4	TB:AIEA GULCH WELLS P2 (331-202-TP072)	97
380-128745-C-1 MS	Matrix Spike	100
380-128745-C-1 MSD	Matrix Spike Duplicate	100
LCS 570-521596/3	Lab Control Sample	99

Surrogate Summary

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

Job ID: 380-128740-1
SDG: Weekly

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

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB1 (38-134)
LCSD 570-521596/4	Lab Control Sample Dup	100
MB 570-521596/5	Method Blank	98
MRL 570-521596/16	Lab Control Sample	99

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16

QC Sample Results

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

Job ID: 380-128740-1
 SDG: Weekly

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

Lab Sample ID: MB 380-126788/21-A
Matrix: Water
Analysis Batch: 126881

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 126788

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.099		0.099	ug/L		01/08/25 07:51	01/08/25 16:27	1
2,4'-DDD	<0.099		0.099	ug/L		01/08/25 07:51	01/08/25 16:27	1
2,4'-DDE	<0.099		0.099	ug/L		01/08/25 07:51	01/08/25 16:27	1
2,4'-DDT	<0.099		0.099	ug/L		01/08/25 07:51	01/08/25 16:27	1
2,4-Dinitrotoluene	<0.099		0.099	ug/L		01/08/25 07:51	01/08/25 16:27	1
2,6-Dinitrotoluene	<0.099		0.099	ug/L		01/08/25 07:51	01/08/25 16:27	1
2-Methylnaphthalene	<0.099		0.099	ug/L		01/08/25 07:51	01/08/25 16:27	1
4,4'-DDD	<0.099		0.099	ug/L		01/08/25 07:51	01/08/25 16:27	1
4,4'-DDE	<0.099		0.099	ug/L		01/08/25 07:51	01/08/25 16:27	1
4,4'-DDT	<0.099		0.099	ug/L		01/08/25 07:51	01/08/25 16:27	1
Acenaphthene	<0.099		0.099	ug/L		01/08/25 07:51	01/08/25 16:27	1
Acenaphthylene	<0.099		0.099	ug/L		01/08/25 07:51	01/08/25 16:27	1
Acetochlor	<0.099		0.099	ug/L		01/08/25 07:51	01/08/25 16:27	1
Alachlor	<0.050		0.050	ug/L		01/08/25 07:51	01/08/25 16:27	1
alpha-BHC	<0.099		0.099	ug/L		01/08/25 07:51	01/08/25 16:27	1
alpha-Chlordane	<0.050		0.050	ug/L		01/08/25 07:51	01/08/25 16:27	1
Anthracene	<0.020		0.020	ug/L		01/08/25 07:51	01/08/25 16:27	1
Atrazine	<0.050		0.050	ug/L		01/08/25 07:51	01/08/25 16:27	1
Benz(a)anthracene	<0.050		0.050	ug/L		01/08/25 07:51	01/08/25 16:27	1
Benzo[a]pyrene	<0.020		0.020	ug/L		01/08/25 07:51	01/08/25 16:27	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		01/08/25 07:51	01/08/25 16:27	1
Benzo[g,h,i]perylene	<0.050		0.050	ug/L		01/08/25 07:51	01/08/25 16:27	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		01/08/25 07:51	01/08/25 16:27	1
beta-BHC	<0.099		0.099	ug/L		01/08/25 07:51	01/08/25 16:27	1
Bis(2-ethylhexyl) phthalate	<0.59		0.59	ug/L		01/08/25 07:51	01/08/25 16:27	1
Bromacil	<0.099		0.099	ug/L		01/08/25 07:51	01/08/25 16:27	1
Butachlor	<0.050		0.050	ug/L		01/08/25 07:51	01/08/25 16:27	1
Butylbenzylphthalate	<0.50		0.50	ug/L		01/08/25 07:51	01/08/25 16:27	1
Chlorobenzilate	<0.099		0.099	ug/L		01/08/25 07:51	01/08/25 16:27	1
Chloroneb	<0.099		0.099	ug/L		01/08/25 07:51	01/08/25 16:27	1
Chlorothalonil (Draconil, Bravo)	<0.099		0.099	ug/L		01/08/25 07:51	01/08/25 16:27	1
Chlorpyrifos	<0.050		0.050	ug/L		01/08/25 07:51	01/08/25 16:27	1
Chrysene	<0.020		0.020	ug/L		01/08/25 07:51	01/08/25 16:27	1
delta-BHC	<0.099		0.099	ug/L		01/08/25 07:51	01/08/25 16:27	1
Di(2-ethylhexyl)adipate	<0.59		0.59	ug/L		01/08/25 07:51	01/08/25 16:27	1
Dibenz(a,h)anthracene	<0.050		0.050	ug/L		01/08/25 07:51	01/08/25 16:27	1
Diclorvos (DDVP)	<0.050		0.050	ug/L		01/08/25 07:51	01/08/25 16:27	1
Dieldrin	<0.0099		0.0099	ug/L		01/08/25 07:51	01/08/25 16:27	1
Diethylphthalate	<0.50		0.50	ug/L		01/08/25 07:51	01/08/25 16:27	1
Dimethylphthalate	<0.50		0.50	ug/L		01/08/25 07:51	01/08/25 16:27	1
Di-n-butyl phthalate	<0.99		0.99	ug/L		01/08/25 07:51	01/08/25 16:27	1
Di-n-octyl phthalate	<0.099		0.099	ug/L		01/08/25 07:51	01/08/25 16:27	1
Endosulfan I (Alpha)	<0.099		0.099	ug/L		01/08/25 07:51	01/08/25 16:27	1
Endosulfan II (Beta)	<0.099		0.099	ug/L		01/08/25 07:51	01/08/25 16:27	1
Endosulfan sulfate	<0.099		0.099	ug/L		01/08/25 07:51	01/08/25 16:27	1
Endrin	<0.0099		0.0099	ug/L		01/08/25 07:51	01/08/25 16:27	1
Endrin aldehyde	<0.099		0.099	ug/L		01/08/25 07:51	01/08/25 16:27	1
EPTC	<0.099		0.099	ug/L		01/08/25 07:51	01/08/25 16:27	1

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-128740-1
SDG: Weekly

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

Lab Sample ID: MB 380-126788/21-A
Matrix: Water
Analysis Batch: 126881

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 126788

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	<0.099		0.099	ug/L		01/08/25 07:51	01/08/25 16:27	1
Fluorene	<0.050		0.050	ug/L		01/08/25 07:51	01/08/25 16:27	1
gamma-Chlordane	<0.050		0.050	ug/L		01/08/25 07:51	01/08/25 16:27	1
Heptachlor	<0.0099		0.0099	ug/L		01/08/25 07:51	01/08/25 16:27	1
Heptachlor epoxide (isomer B)	<0.0099		0.0099	ug/L		01/08/25 07:51	01/08/25 16:27	1
Hexachlorobenzene	<0.050		0.050	ug/L		01/08/25 07:51	01/08/25 16:27	1
Hexachlorocyclopentadiene	<0.050		0.050	ug/L		01/08/25 07:51	01/08/25 16:27	1
Indeno[1,2,3-cd]pyrene	<0.050		0.050	ug/L		01/08/25 07:51	01/08/25 16:27	1
Isophorone	<0.099		0.099	ug/L		01/08/25 07:51	01/08/25 16:27	1
Lindane	<0.0099		0.0099	ug/L		01/08/25 07:51	01/08/25 16:27	1
Malathion	<0.099		0.099	ug/L		01/08/25 07:51	01/08/25 16:27	1
Methoxychlor	<0.050		0.050	ug/L		01/08/25 07:51	01/08/25 16:27	1
Metolachlor	<0.050		0.050	ug/L		01/08/25 07:51	01/08/25 16:27	1
Molinate	<0.099		0.099	ug/L		01/08/25 07:51	01/08/25 16:27	1
Naphthalene	<0.099		0.099	ug/L		01/08/25 07:51	01/08/25 16:27	1
Parathion	<0.099		0.099	ug/L		01/08/25 07:51	01/08/25 16:27	1
Pendimethalin (Penoxaline)	<0.099		0.099	ug/L		01/08/25 07:51	01/08/25 16:27	1
Phenanthrene	<0.040		0.040	ug/L		01/08/25 07:51	01/08/25 16:27	1
Propachlor	<0.050		0.050	ug/L		01/08/25 07:51	01/08/25 16:27	1
Pyrene	<0.050		0.050	ug/L		01/08/25 07:51	01/08/25 16:27	1
Simazine	<0.050		0.050	ug/L		01/08/25 07:51	01/08/25 16:27	1
Terbacil	<0.099		0.099	ug/L		01/08/25 07:51	01/08/25 16:27	1
Terbutylazine	<0.099		0.099	ug/L		01/08/25 07:51	01/08/25 16:27	1
Thiobencarb	<0.099		0.099	ug/L		01/08/25 07:51	01/08/25 16:27	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		01/08/25 07:51	01/08/25 16:27	1
trans-Nonachlor	<0.050		0.050	ug/L		01/08/25 07:51	01/08/25 16:27	1
Trifluralin	<0.099		0.099	ug/L		01/08/25 07:51	01/08/25 16:27	1

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	0.581	T J	ug/L		2.60	N/A	01/08/25 07:51	01/08/25 16:27	1
Unknown	0.562	T J	ug/L		2.67	N/A	01/08/25 07:51	01/08/25 16:27	1
Decane	1.87	T J N	ug/L		2.73	124-18-5	01/08/25 07:51	01/08/25 16:27	1
Unknown	0.717	T J	ug/L		3.10	N/A	01/08/25 07:51	01/08/25 16:27	1
Cyclopentasiloxane, decamethyl-	0.656	T J N	ug/L		3.20	541-02-6	01/08/25 07:51	01/08/25 16:27	1
Unknown	0.664	T J	ug/L		3.82	N/A	01/08/25 07:51	01/08/25 16:27	1
9-Octadecenamamide, (Z)-	1.31	T J N	ug/L		7.79	301-02-0	01/08/25 07:51	01/08/25 16:27	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	91		70 - 130	01/08/25 07:51	01/08/25 16:27	1
Perylene-d12	84		70 - 130	01/08/25 07:51	01/08/25 16:27	1
Triphenylphosphate	107		70 - 130	01/08/25 07:51	01/08/25 16:27	1

Lab Sample ID: LCS 380-126788/23-A
Matrix: Water
Analysis Batch: 126881

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 126788

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	1.98	1.79		ug/L		90	70 - 130

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-128740-1
SDG: Weekly

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

Lab Sample ID: LCS 380-126788/23-A
Matrix: Water
Analysis Batch: 126881

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 126788

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4'-DDD	1.98	1.99		ug/L		100	70 - 130
2,4'-DDE	1.98	1.92		ug/L		97	70 - 130
2,4'-DDT	1.98	1.98		ug/L		100	70 - 130
2,4-Dinitrotoluene	1.98	1.49		ug/L		75	70 - 130
2,6-Dinitrotoluene	1.98	1.59		ug/L		80	70 - 130
2-Methylnaphthalene	1.98	1.83		ug/L		93	70 - 130
4,4'-DDD	1.98	2.02		ug/L		102	70 - 130
4,4'-DDE	1.98	2.08		ug/L		105	70 - 130
4,4'-DDT	1.98	2.04		ug/L		103	70 - 130
Acenaphthene	1.98	1.74		ug/L		88	70 - 130
Acenaphthylene	1.98	1.81		ug/L		92	70 - 130
Acetochlor	1.98	1.95		ug/L		98	70 - 130
Alachlor	1.98	2.01		ug/L		101	70 - 130
alpha-BHC	1.98	1.86		ug/L		94	70 - 130
alpha-Chlordane	1.98	2.11		ug/L		107	70 - 130
Anthracene	1.98	1.76		ug/L		89	70 - 130
Atrazine	1.98	2.00		ug/L		101	70 - 130
Benz(a)anthracene	1.98	1.79		ug/L		90	70 - 130
Benzo[a]pyrene	1.98	1.83		ug/L		93	70 - 130
Benzo[b]fluoranthene	1.98	1.99		ug/L		101	70 - 130
Benzo[g,h,i]perylene	1.98	2.06		ug/L		104	70 - 130
Benzo[k]fluoranthene	1.98	1.95		ug/L		98	70 - 130
beta-BHC	1.98	1.85		ug/L		93	70 - 130
Bis(2-ethylhexyl) phthalate	1.98	2.04		ug/L		103	70 - 130
Bromacil	1.98	1.95		ug/L		98	70 - 130
Butachlor	1.98	2.12		ug/L		107	70 - 130
Butylbenzylphthalate	1.98	2.15		ug/L		109	70 - 130
Chlorobenzilate	1.98	1.71		ug/L		87	70 - 130
Chloroneb	1.98	2.09		ug/L		105	70 - 130
Chlorothalonil (Draconil, Bravo)	1.98	2.19		ug/L		110	70 - 130
Chlorpyrifos	1.98	1.99		ug/L		100	70 - 130
Chrysene	1.98	1.76		ug/L		89	70 - 130
delta-BHC	1.98	1.86		ug/L		94	70 - 130
Di(2-ethylhexyl)adipate	1.98	2.17		ug/L		110	70 - 130
Dibenz(a,h)anthracene	1.98	1.84		ug/L		93	70 - 130
Diclorvos (DDVP)	1.98	1.98		ug/L		100	70 - 130
Dieldrin	1.98	1.88		ug/L		95	70 - 130
Diethylphthalate	1.98	1.95		ug/L		98	70 - 130
Dimethylphthalate	1.98	1.96		ug/L		99	70 - 130
Di-n-butyl phthalate	3.96	3.90		ug/L		98	70 - 130
Di-n-octyl phthalate	1.98	1.82		ug/L		92	70 - 130
Endosulfan I (Alpha)	1.98	1.87		ug/L		94	70 - 130
Endosulfan II (Beta)	1.98	1.94		ug/L		98	70 - 130
Endosulfan sulfate	1.98	2.07		ug/L		104	70 - 130
Endrin	1.98	1.93		ug/L		97	70 - 130
Endrin aldehyde	1.98	1.79		ug/L		90	60 - 130
EPTC	1.98	1.88		ug/L		95	70 - 130
Fluoranthene	1.98	2.01		ug/L		101	70 - 130
Fluorene	1.98	1.90		ug/L		96	70 - 130

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-128740-1
SDG: Weekly

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

Lab Sample ID: LCS 380-126788/23-A
Matrix: Water
Analysis Batch: 126881

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 126788

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
gamma-Chlordane	1.98	2.13		ug/L		107	70 - 130
Heptachlor	1.98	1.89		ug/L		95	70 - 130
Heptachlor epoxide (isomer B)	1.98	2.09		ug/L		105	70 - 130
Hexachlorobenzene	1.98	1.81		ug/L		91	70 - 130
Hexachlorocyclopentadiene	1.98	1.92		ug/L		97	70 - 130
Indeno[1,2,3-cd]pyrene	1.98	1.78		ug/L		90	70 - 130
Isophorone	1.98	1.82		ug/L		92	70 - 130
Lindane	1.98	1.85		ug/L		93	70 - 130
Malathion	1.98	2.11		ug/L		107	70 - 130
Methoxychlor	1.98	1.94		ug/L		98	70 - 130
Metolachlor	1.98	2.06		ug/L		104	70 - 130
Molinate	1.98	1.92		ug/L		97	70 - 130
Naphthalene	1.98	1.82		ug/L		92	70 - 130
Parathion	1.98	1.83		ug/L		93	70 - 130
Pendimethalin (Penoxaline)	1.98	1.73		ug/L		87	70 - 130
Phenanthrene	1.98	1.81		ug/L		91	70 - 130
Propachlor	1.98	1.91		ug/L		96	70 - 130
Pyrene	1.98	1.99		ug/L		101	70 - 130
Simazine	1.98	2.03		ug/L		102	70 - 130
Terbacil	1.98	2.01		ug/L		101	70 - 130
Terbutylazine	1.98	2.02		ug/L		102	70 - 130
Thiobencarb	1.98	1.97		ug/L		100	70 - 130
trans-Nonachlor	1.98	2.11		ug/L		106	70 - 130
Trifluralin	1.98	1.61		ug/L		81	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Nitro-m-xylene	93		70 - 130
Perylene-d12	92		70 - 130
Triphenylphosphate	109		70 - 130

Lab Sample ID: LCSD 380-126788/24-A
Matrix: Water
Analysis Batch: 126881

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 126788

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	1.98	1.83		ug/L		92	70 - 130	2	20
2,4'-DDD	1.98	2.03		ug/L		102	70 - 130	2	20
2,4'-DDE	1.98	1.92		ug/L		97	70 - 130	0	20
2,4'-DDT	1.98	1.93		ug/L		97	70 - 130	2	20
2,4-Dinitrotoluene	1.98	1.65		ug/L		83	70 - 130	10	20
2,6-Dinitrotoluene	1.98	1.76		ug/L		89	70 - 130	10	20
2-Methylnaphthalene	1.98	1.87		ug/L		94	70 - 130	2	20
4,4'-DDD	1.98	2.08		ug/L		105	70 - 130	3	20
4,4'-DDE	1.98	2.05		ug/L		103	70 - 130	1	20
4,4'-DDT	1.98	1.98		ug/L		100	70 - 130	3	20
Acenaphthene	1.98	1.80		ug/L		91	70 - 130	3	20
Acenaphthylene	1.98	1.88		ug/L		95	70 - 130	4	20
Acetochlor	1.98	1.94		ug/L		98	70 - 130	1	20

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QC Sample Results

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

Job ID: 380-128740-1
SDG: Weekly

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

Lab Sample ID: LCSD 380-126788/24-A
Matrix: Water
Analysis Batch: 126881

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 126788

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
Alachlor	1.98	2.03		ug/L		102	70 - 130	1	20	
alpha-BHC	1.98	1.97		ug/L		99	70 - 130	6	20	
alpha-Chlordane	1.98	2.12		ug/L		107	70 - 130	0	20	
Anthracene	1.98	1.82		ug/L		92	70 - 130	3	20	
Atrazine	1.98	2.16		ug/L		109	70 - 130	8	20	
Benz(a)anthracene	1.98	1.87		ug/L		94	70 - 130	5	20	
Benzo[a]pyrene	1.98	1.89		ug/L		95	70 - 130	3	20	
Benzo[b]fluoranthene	1.98	2.10		ug/L		106	70 - 130	5	20	
Benzo[g,h,i]perylene	1.98	1.94		ug/L		98	70 - 130	6	20	
Benzo[k]fluoranthene	1.98	2.02		ug/L		102	70 - 130	4	20	
beta-BHC	1.98	1.94		ug/L		98	70 - 130	5	20	
Bis(2-ethylhexyl) phthalate	1.98	1.89		ug/L		95	70 - 130	7	20	
Bromacil	1.98	2.06		ug/L		104	70 - 130	6	20	
Butachlor	1.98	2.13		ug/L		108	70 - 130	1	20	
Butylbenzylphthalate	1.98	2.23		ug/L		112	70 - 130	3	20	
Chlorobenzilate	1.98	1.68		ug/L		85	70 - 130	2	20	
Chloroneb	1.98	2.25		ug/L		114	70 - 130	8	20	
Chlorothalonil (Draconil, Bravo)	1.98	2.08		ug/L		105	70 - 130	5	20	
Chlorpyrifos	1.98	2.01		ug/L		101	70 - 130	1	20	
Chrysene	1.98	1.88		ug/L		95	70 - 130	6	20	
delta-BHC	1.98	1.86		ug/L		94	70 - 130	0	20	
Di(2-ethylhexyl)adipate	1.98	2.02		ug/L		102	70 - 130	7	20	
Dibenz(a,h)anthracene	1.98	1.78		ug/L		90	70 - 130	3	20	
Diclorvos (DDVP)	1.98	2.13		ug/L		108	70 - 130	7	20	
Dieldrin	1.98	1.90		ug/L		96	70 - 130	1	20	
Diethylphthalate	1.98	2.07		ug/L		104	70 - 130	6	20	
Dimethylphthalate	1.98	2.06		ug/L		104	70 - 130	5	20	
Di-n-butyl phthalate	3.97	4.07		ug/L		103	70 - 130	4	20	
Di-n-octyl phthalate	1.98	1.77		ug/L		89	70 - 130	3	20	
Endosulfan I (Alpha)	1.98	1.85		ug/L		93	70 - 130	1	20	
Endosulfan II (Beta)	1.98	1.93		ug/L		97	70 - 130	1	20	
Endosulfan sulfate	1.98	2.06		ug/L		104	70 - 130	0	20	
Endrin	1.98	1.93		ug/L		97	70 - 130	0	20	
Endrin aldehyde	1.98	1.84		ug/L		93	60 - 130	3	20	
EPTC	1.98	1.95		ug/L		98	70 - 130	4	20	
Fluoranthene	1.98	2.08		ug/L		105	70 - 130	4	20	
Fluorene	1.98	2.00		ug/L		101	70 - 130	5	20	
gamma-Chlordane	1.98	2.10		ug/L		106	70 - 130	2	20	
Heptachlor	1.98	1.87		ug/L		94	70 - 130	1	20	
Heptachlor epoxide (isomer B)	1.98	2.12		ug/L		107	70 - 130	1	20	
Hexachlorobenzene	1.98	1.90		ug/L		96	70 - 130	5	20	
Hexachlorocyclopentadiene	1.98	2.01		ug/L		101	70 - 130	4	20	
Indeno[1,2,3-cd]pyrene	1.98	1.74		ug/L		88	70 - 130	3	20	
Isophorone	1.98	1.88		ug/L		95	70 - 130	3	20	
Lindane	1.98	1.93		ug/L		98	70 - 130	4	20	
Malathion	1.98	2.16		ug/L		109	70 - 130	2	20	
Methoxychlor	1.98	1.99		ug/L		100	70 - 130	3	20	
Metolachlor	1.98	2.07		ug/L		105	70 - 130	1	20	
Molinate	1.98	2.01		ug/L		101	70 - 130	5	20	

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-128740-1
SDG: Weekly

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

Lab Sample ID: LCSD 380-126788/24-A
Matrix: Water
Analysis Batch: 126881

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 126788

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Naphthalene	1.98	1.83		ug/L		92	70 - 130	0	20
Parathion	1.98	1.85		ug/L		93	70 - 130	1	20
Pendimethalin (Penoxaline)	1.98	1.75		ug/L		88	70 - 130	1	20
Phenanthrene	1.98	1.88		ug/L		95	70 - 130	4	20
Propachlor	1.98	2.02		ug/L		102	70 - 130	6	20
Pyrene	1.98	2.08		ug/L		105	70 - 130	4	20
Simazine	1.98	2.19		ug/L		111	70 - 130	8	20
Terbacil	1.98	2.04		ug/L		103	70 - 130	2	20
Terbutylazine	1.98	2.13		ug/L		107	70 - 130	5	20
Thiobencarb	1.98	2.02		ug/L		102	70 - 130	3	20
trans-Nonachlor	1.98	2.05		ug/L		103	70 - 130	3	20
Trifluralin	1.98	1.65		ug/L		83	70 - 130	3	20

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
2-Nitro-m-xylene	91		70 - 130
Perylene-d12	88		70 - 130
Triphenylphosphate	109		70 - 130

Lab Sample ID: MRL 380-126788/22-A
Matrix: Water
Analysis Batch: 126881

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 126788

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	0.0993	0.109		ug/L		110	50 - 150
2,4'-DDD	0.0993	0.0972	J	ug/L		98	50 - 150
2,4'-DDE	0.0993	0.106		ug/L		107	50 - 150
2,4'-DDT	0.0993	0.0956	J	ug/L		96	50 - 150
2,4-Dinitrotoluene	0.0993	0.0966	J	ug/L		97	50 - 150
2,6-Dinitrotoluene	0.0993	0.0996		ug/L		100	50 - 150
2-Methylnaphthalene	0.0993	0.102		ug/L		103	50 - 150
4,4'-DDD	0.0993	0.111		ug/L		112	50 - 150
4,4'-DDE	0.0993	0.108		ug/L		109	50 - 150
4,4'-DDT	0.0993	0.0941	J	ug/L		95	50 - 150
Acenaphthene	0.0993	0.0936	J	ug/L		94	50 - 150
Acenaphthylene	0.0993	0.0923	J	ug/L		93	50 - 150
Acetochlor	0.0993	0.110		ug/L		111	50 - 150
Alachlor	0.0496	0.0517		ug/L		104	50 - 150
alpha-BHC	0.0993	0.110		ug/L		111	50 - 150
alpha-Chlordane	0.0248	0.0296	J	ug/L		119	50 - 150
Anthracene	0.0199	0.0218		ug/L		110	50 - 150
Atrazine	0.0496	0.0563		ug/L		113	50 - 150
Benz(a)anthracene	0.0496	0.0521		ug/L		105	50 - 150
Benzo[a]pyrene	0.0199	0.0181	J	ug/L		91	50 - 150
Benzo[b]fluoranthene	0.0199	0.0198	J	ug/L		100	50 - 150
Benzo[g,h,i]perylene	0.0496	0.0394	J	ug/L		79	50 - 150
Benzo[k]fluoranthene	0.0199	0.0203		ug/L		102	50 - 150
beta-BHC	0.0993	0.121		ug/L		122	50 - 150
Bis(2-ethylhexyl) phthalate	0.596	0.584	J	ug/L		98	50 - 150

QC Sample Results

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

Job ID: 380-128740-1
SDG: Weekly

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

Lab Sample ID: MRL 380-126788/22-A
Matrix: Water
Analysis Batch: 126881

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 126788

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Bromacil	0.0993	0.118		ug/L		119	50 - 150
Butachlor	0.0496	0.0584		ug/L		118	50 - 150
Butylbenzylphthalate	0.496	0.570		ug/L		115	50 - 150
Chlorobenzilate	0.0993	0.0815	J	ug/L		82	50 - 150
Chloroneb	0.0993	0.0951	J	ug/L		96	50 - 150
Chlorothalonil (Draconil, Bravo)	0.0993	0.0952	J	ug/L		96	50 - 150
Chlorpyrifos	0.0496	0.0531		ug/L		107	50 - 150
Chrysene	0.0199	0.0219		ug/L		111	50 - 150
delta-BHC	0.0993	0.107		ug/L		107	50 - 150
Di(2-ethylhexyl)adipate	0.596	0.678		ug/L		114	50 - 150
Dibenz(a,h)anthracene	0.0496	0.0504		ug/L		102	50 - 150
Diclorvos (DDVP)	0.0496	0.0625		ug/L		126	50 - 150
Dieldrin	0.00993	0.0124		ug/L		125	50 - 150
Diethylphthalate	0.496	0.545		ug/L		110	50 - 150
Dimethylphthalate	0.496	0.531		ug/L		107	50 - 150
Di-n-butyl phthalate	0.496	0.551	J	ug/L		111	49 - 243
Di-n-octyl phthalate	0.0993	0.0960	J	ug/L		97	50 - 150
Endosulfan I (Alpha)	0.0993	0.111		ug/L		112	50 - 150
Endosulfan II (Beta)	0.0993	0.109		ug/L		110	50 - 150
Endosulfan sulfate	0.0993	0.101		ug/L		102	50 - 150
Endrin	0.00993	0.00831	J	ug/L		84	50 - 150
Endrin aldehyde	0.0993	0.116		ug/L		117	50 - 150
EPTC	0.0993	0.0972	J	ug/L		98	50 - 150
Fluoranthene	0.0993	0.105		ug/L		106	50 - 150
Fluorene	0.0496	0.0516		ug/L		104	50 - 150
gamma-Chlordane	0.0248	0.0250	J	ug/L		101	50 - 150
Heptachlor	0.00993	0.0139		ug/L		140	50 - 150
Heptachlor epoxide (isomer B)	0.00993	0.0126		ug/L		126	50 - 150
Hexachlorobenzene	0.0496	0.0512		ug/L		103	50 - 150
Hexachlorocyclopentadiene	0.0496	0.0466	J	ug/L		94	50 - 150
Indeno[1,2,3-cd]pyrene	0.0496	0.0484	J	ug/L		97	50 - 150
Isophorone	0.0993	0.115		ug/L		116	50 - 150
Lindane	0.00993	0.0151	^3+	ug/L		152	50 - 150
Malathion	0.0993	0.0955	J	ug/L		96	50 - 150
Methoxychlor	0.0496	0.0488	J	ug/L		98	50 - 150
Metolachlor	0.0496	0.0569		ug/L		115	50 - 150
Molinate	0.0993	0.105		ug/L		106	50 - 150
Naphthalene	0.0993	0.115		ug/L		116	50 - 150
Parathion	0.0993	0.0807	J	ug/L		81	50 - 150
Pendimethalin (Penoxaline)	0.0993	0.0852	J	ug/L		86	50 - 150
Phenanthrene	0.0397	0.0458		ug/L		115	50 - 150
Propachlor	0.0496	0.0551		ug/L		111	50 - 150
Pyrene	0.0496	0.0511		ug/L		103	50 - 150
Simazine	0.0496	0.0537		ug/L		108	50 - 150
Terbacil	0.0993	0.0935	J	ug/L		94	50 - 150
Terbutylazine	0.0993	0.111		ug/L		111	50 - 150
Thiobencarb	0.0993	0.106		ug/L		107	50 - 150
trans-Nonachlor	0.0248	0.0267	J	ug/L		107	50 - 150
Trifluralin	0.0993	0.0938	J	ug/L		95	50 - 150

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-128740-1
SDG: Weekly

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

<i>Surrogate</i>	<i>MRL %Recovery</i>	<i>MRL Qualifier</i>	<i>Limits</i>
2-Nitro-m-xylene	92		70 - 130
Perylene-d12	83		70 - 130
Triphenylphosphate	106		70 - 130

Lab Sample ID: 380-128694-B-1-A MS
Matrix: Water
Analysis Batch: 126881

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 126788

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	<0.098		1.96	1.82		ug/L		92	70 - 130
2,4'-DDD	<0.098		1.96	2.01		ug/L		102	70 - 130
2,4'-DDE	<0.098		1.96	1.90		ug/L		97	70 - 130
2,4'-DDT	<0.098		1.96	2.01		ug/L		102	70 - 130
2,4-Dinitrotoluene	<0.098		1.96	1.71		ug/L		87	70 - 130
2,6-Dinitrotoluene	<0.098		1.96	1.77		ug/L		90	70 - 130
2-Methylnaphthalene	<0.098		1.96	1.86		ug/L		95	70 - 130
4,4'-DDD	<0.098		1.96	2.08		ug/L		106	70 - 130
4,4'-DDE	<0.098		1.96	2.04		ug/L		104	70 - 130
4,4'-DDT	<0.098		1.96	2.05		ug/L		105	70 - 130
Acenaphthene	<0.098		1.96	1.77		ug/L		90	70 - 130
Acenaphthylene	<0.098		1.96	1.88		ug/L		96	70 - 130
Acetochlor	<0.098		1.96	1.91		ug/L		98	70 - 130
Alachlor	<0.049		1.96	1.97		ug/L		101	70 - 130
alpha-BHC	<0.098		1.96	1.89		ug/L		96	70 - 130
alpha-Chlordane	<0.049		1.96	2.09		ug/L		106	70 - 130
Anthracene	<0.020	F1	1.96	0.682	F1	ug/L		35	70 - 130
Atrazine	<0.049		1.96	2.06		ug/L		105	70 - 130
Benz(a)anthracene	<0.049		1.96	1.65		ug/L		84	70 - 130
Benzo[a]pyrene	<0.020		1.96	1.39		ug/L		71	70 - 130
Benzo[b]fluoranthene	<0.020		1.96	2.11		ug/L		108	70 - 130
Benzo[g,h,i]perylene	<0.049		1.96	1.95		ug/L		100	70 - 130
Benzo[k]fluoranthene	<0.020		1.96	2.02		ug/L		103	70 - 130
beta-BHC	<0.098		1.96	1.93		ug/L		98	70 - 130
Bis(2-ethylhexyl) phthalate	<0.59		1.96	1.69		ug/L		86	70 - 130
Bromacil	<0.098		1.96	2.01		ug/L		102	70 - 130
Butachlor	<0.049		1.96	2.16		ug/L		110	70 - 130
Butylbenzylphthalate	<0.49		1.96	2.21		ug/L		113	70 - 130
Chlorobenzilate	<0.098		1.96	1.70		ug/L		87	70 - 130
Chloroneb	<0.098		1.96	2.05		ug/L		105	70 - 130
Chlorothalonil (Draconil, Bravo)	<0.098		1.96	2.08		ug/L		106	70 - 130
Chlorpyrifos	<0.049		1.96	2.02		ug/L		103	70 - 130
Chrysene	<0.020		1.96	1.81		ug/L		92	70 - 130
delta-BHC	<0.098		1.96	1.87		ug/L		95	70 - 130
Di(2-ethylhexyl)adipate	<0.59		1.96	1.93		ug/L		99	70 - 130
Dibenz(a,h)anthracene	<0.049		1.96	1.80		ug/L		92	70 - 130
Diclorvos (DDVP)	<0.049		1.96	2.10		ug/L		107	70 - 130
Dieldrin	<0.0098		1.96	1.87		ug/L		95	70 - 130
Diethylphthalate	<0.49		1.96	1.98		ug/L		101	70 - 130
Dimethylphthalate	<0.49		1.96	2.00		ug/L		102	70 - 130
Di-n-butyl phthalate	<0.98		3.92	4.03		ug/L		103	70 - 130
Di-n-octyl phthalate	<0.098		1.96	1.54		ug/L		79	70 - 130

QC Sample Results

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

Job ID: 380-128740-1
SDG: Weekly

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

Lab Sample ID: 380-128694-B-1-A MS
Matrix: Water
Analysis Batch: 126881

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 126788

Analyte	Sample	Sample Qualifier	Spike Added	MS	MS	Unit	D	%Rec	%Rec Limits
	Result			Result	Qualifier				
Endosulfan I (Alpha)	<0.098		1.96	1.84		ug/L		94	70 - 130
Endosulfan II (Beta)	<0.098		1.96	1.97		ug/L		101	70 - 130
Endosulfan sulfate	<0.098		1.96	1.99		ug/L		101	70 - 130
Endrin	<0.0098		1.96	1.84		ug/L		94	70 - 130
Endrin aldehyde	<0.098		1.96	1.50		ug/L		77	60 - 130
EPTC	<0.098		1.96	1.89		ug/L		96	70 - 130
Fluoranthene	<0.098		1.96	2.05		ug/L		104	70 - 130
Fluorene	<0.049		1.96	1.96		ug/L		100	70 - 130
gamma-Chlordane	<0.049		1.96	2.13		ug/L		108	70 - 130
Heptachlor	<0.0098		1.96	1.88		ug/L		96	70 - 130
Heptachlor epoxide (isomer B)	<0.0098		1.96	2.09		ug/L		107	70 - 130
Hexachlorobenzene	<0.049		1.96	1.90		ug/L		97	70 - 130
Hexachlorocyclopentadiene	<0.049		1.96	2.07		ug/L		106	70 - 130
Indeno[1,2,3-cd]pyrene	<0.049		1.96	1.85		ug/L		94	70 - 130
Isophorone	<0.098		1.96	1.84		ug/L		94	70 - 130
Lindane	<0.0098	^3+	1.96	1.89		ug/L		96	70 - 130
Malathion	<0.098		1.96	2.17		ug/L		111	70 - 130
Methoxychlor	<0.049		1.96	2.06		ug/L		105	70 - 130
Metolachlor	<0.049		1.96	2.02		ug/L		103	70 - 130
Molinate	<0.098		1.96	1.96		ug/L		100	70 - 130
Naphthalene	<0.098		1.96	1.84		ug/L		94	70 - 130
Parathion	<0.098		1.96	1.93		ug/L		98	70 - 130
Pendimethalin (Penoxaline)	<0.098		1.96	1.89		ug/L		97	70 - 130
Phenanthrene	<0.039		1.96	1.84		ug/L		94	70 - 130
Propachlor	<0.049		1.96	1.94		ug/L		99	70 - 130
Pyrene	<0.049		1.96	2.02		ug/L		103	70 - 130
Simazine	<0.049		1.96	2.10		ug/L		107	70 - 130
Terbacil	<0.098		1.96	2.00		ug/L		102	70 - 130
Terbutylazine	<0.098		1.96	2.07		ug/L		106	70 - 130
Thiobencarb	<0.098		1.96	1.99		ug/L		102	70 - 130
trans-Nonachlor	<0.049		1.96	2.05		ug/L		105	70 - 130
Trifluralin	<0.098		1.96	1.73		ug/L		88	70 - 130

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
2-Nitro-m-xylene	92		70 - 130
Perylene-d12	92		70 - 130
Triphenylphosphate	110		70 - 130

Lab Sample ID: 380-128740-1 DU
Matrix: Drinking Water
Analysis Batch: 126881

Client Sample ID: AIEA GULCH WELLS PUMP 1 (331-201-TP071)
Prep Type: Total/NA
Prep Batch: 126788

Analyte	Sample Result	Sample Qualifier	DU	DU	Unit	D	RPD	Limit
			Result	Qualifier				
1-Methylnaphthalene	<0.10		<0.099		ug/L		NC	20
2,4'-DDD	<0.10		<0.099		ug/L		NC	20
2,4'-DDE	<0.10		<0.099		ug/L		NC	20
2,4'-DDT	<0.10		<0.099		ug/L		NC	20
2,4-Dinitrotoluene	<0.10		<0.099		ug/L		NC	20

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QC Sample Results

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

Job ID: 380-128740-1
SDG: Weekly

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

Lab Sample ID: 380-128740-1 DU

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

Matrix: Drinking Water

Prep Type: Total/NA

Analysis Batch: 126881

Prep Batch: 126788

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
2,6-Dinitrotoluene	<0.10		<0.099		ug/L		NC	20
2-Methylnaphthalene	<0.10		<0.099		ug/L		NC	20
4,4'-DDD	<0.10		<0.099		ug/L		NC	20
4,4'-DDE	<0.10		<0.099		ug/L		NC	20
4,4'-DDT	<0.10		<0.099		ug/L		NC	20
Acenaphthene	<0.10		<0.099		ug/L		NC	20
Acenaphthylene	<0.10		<0.099		ug/L		NC	20
Acetochlor	<0.10		<0.099		ug/L		NC	20
Alachlor	<0.050		<0.049		ug/L		NC	20
alpha-BHC	<0.10		<0.099		ug/L		NC	20
alpha-Chlordane	<0.050		<0.049		ug/L		NC	20
Anthracene	<0.020		<0.020		ug/L		NC	20
Atrazine	<0.050		<0.049		ug/L		NC	20
Benz(a)anthracene	<0.050		<0.049		ug/L		NC	20
Benzo[a]pyrene	<0.020		<0.020		ug/L		NC	20
Benzo[b]fluoranthene	<0.020		<0.020		ug/L		NC	20
Benzo[g,h,i]perylene	<0.050		<0.049		ug/L		NC	20
Benzo[k]fluoranthene	<0.020		<0.020		ug/L		NC	20
beta-BHC	<0.10		<0.099		ug/L		NC	20
Bis(2-ethylhexyl) phthalate	<0.60		<0.59		ug/L		NC	20
Bromacil	<0.10		<0.099		ug/L		NC	20
Butachlor	<0.050		<0.049		ug/L		NC	20
Butylbenzylphthalate	<0.50		<0.49		ug/L		NC	20
Chlorobenzilate	<0.10		<0.099		ug/L		NC	20
Chloroneb	<0.10		<0.099		ug/L		NC	20
Chlorothalonil (Draconil, Bravo)	<0.10		<0.099		ug/L		NC	20
Chlorpyrifos	<0.050		<0.049		ug/L		NC	20
Chrysene	<0.020		<0.020		ug/L		NC	20
delta-BHC	<0.10		<0.099		ug/L		NC	20
Di(2-ethylhexyl)adipate	<0.60		<0.59		ug/L		NC	20
Dibenz(a,h)anthracene	<0.050		<0.049		ug/L		NC	20
Diclorvos (DDVP)	<0.050		<0.049		ug/L		NC	20
Dieldrin	<0.010		<0.0099		ug/L		NC	20
Diethylphthalate	<0.50		<0.49		ug/L		NC	20
Dimethylphthalate	<0.50		<0.49		ug/L		NC	20
Di-n-butyl phthalate	<1.0		<0.99		ug/L		NC	20
Di-n-octyl phthalate	<0.10		<0.099		ug/L		NC	20
Endosulfan I (Alpha)	<0.10		<0.099		ug/L		NC	20
Endosulfan II (Beta)	<0.10		<0.099		ug/L		NC	20
Endosulfan sulfate	<0.10		<0.099		ug/L		NC	20
Endrin	<0.010		<0.0099		ug/L		NC	20
Endrin aldehyde	<0.10		<0.099		ug/L		NC	20
EPTC	<0.10		<0.099		ug/L		NC	20
Fluoranthene	<0.10		<0.099		ug/L		NC	20
Fluorene	<0.050		<0.049		ug/L		NC	20
gamma-Chlordane	<0.050		<0.049		ug/L		NC	20
Heptachlor	<0.010		<0.0099		ug/L		NC	20
Heptachlor epoxide (isomer B)	<0.010		<0.0099		ug/L		NC	20
Hexachlorobenzene	<0.050		<0.049		ug/L		NC	20

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-128740-1
SDG: Weekly

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

Lab Sample ID: 380-128740-1 DU
Matrix: Drinking Water
Analysis Batch: 126881

Client Sample ID: AIEA GULCH WELLS PUMP 1 (331-201-TP071)
Prep Type: Total/NA
Prep Batch: 126788

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Hexachlorocyclopentadiene	<0.050		<0.049		ug/L		NC	20
Indeno[1,2,3-cd]pyrene	<0.050		<0.049		ug/L		NC	20
Isophorone	<0.10		<0.099		ug/L		NC	20
Lindane	<0.010	^3+	<0.0099		ug/L		NC	20
Malathion	<0.10		<0.099		ug/L		NC	20
Methoxychlor	<0.050		<0.049		ug/L		NC	20
Metolachlor	<0.050		<0.049		ug/L		NC	20
Molinate	<0.10		<0.099		ug/L		NC	20
Naphthalene	<0.10		<0.099		ug/L		NC	20
Parathion	<0.10		<0.099		ug/L		NC	20
Pendimethalin (Penoxaline)	<0.10		<0.099		ug/L		NC	20
Phenanthrene	<0.040		<0.039		ug/L		NC	20
Propachlor	<0.050		<0.049		ug/L		NC	20
Pyrene	<0.050		<0.049		ug/L		NC	20
Simazine	<0.050		<0.049		ug/L		NC	20
Terbacil	<0.10		<0.099		ug/L		NC	20
Terbutylazine	<0.10		<0.099		ug/L		NC	20
Thiobencarb	<0.10		<0.099		ug/L		NC	20
Total Permethrin (mixed isomers)	<0.20		<0.20		ug/L		NC	20
trans-Nonachlor	<0.050		<0.049		ug/L		NC	20
Trifluralin	<0.10		<0.099		ug/L		NC	20

Surrogate	DU	DU	Limits
	%Recovery	Qualifier	
2-Nitro-m-xylene	92		70 - 130
Perylene-d12	90		70 - 130
Triphenylphosphate	108		70 - 130

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

Lab Sample ID: MB 570-521596/5
Matrix: Water
Analysis Batch: 521596

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

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
GRO (C6-C10)	<10		10	ug/L			01/09/25 12:01	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	98		38 - 134		01/09/25 12:01	1

Lab Sample ID: LCS 570-521596/3
Matrix: Water
Analysis Batch: 521596

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits

QC Sample Results

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

Job ID: 380-128740-1
SDG: Weekly

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

Lab Sample ID: LCS 570-521596/3
Matrix: Water
Analysis Batch: 521596

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

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		38 - 134

Lab Sample ID: LCSD 570-521596/4
Matrix: Water
Analysis Batch: 521596

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (C4-C13)	400	436		ug/L		109	78 - 120	1	10

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

Lab Sample ID: MRL 570-521596/16
Matrix: Water
Analysis Batch: 521596

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (C4-C13)	10.0	12.5		ug/L		125	50 - 150

Surrogate	MRL %Recovery	MRL Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		38 - 134

Lab Sample ID: 380-128745-C-1 MS
Matrix: Water
Analysis Batch: 521596

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	446		ug/L		112	68 - 122

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

Lab Sample ID: 380-128745-C-1 MSD
Matrix: Water
Analysis Batch: 521596

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	439		ug/L		110	68 - 122	2	18

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

QC Association Summary

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

Job ID: 380-128740-1
SDG: Weekly

GC/MS Semi VOA

Prep Batch: 126788

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-128740-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	525.2	
380-128740-2	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	525.2	
MB 380-126788/21-A	Method Blank	Total/NA	Water	525.2	
LCS 380-126788/23-A	Lab Control Sample	Total/NA	Water	525.2	
LCSD 380-126788/24-A	Lab Control Sample Dup	Total/NA	Water	525.2	
MRL 380-126788/22-A	Lab Control Sample	Total/NA	Water	525.2	
380-128694-B-1-A MS	Matrix Spike	Total/NA	Water	525.2	
380-128740-1 DU	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	525.2	

Analysis Batch: 126881

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-128740-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	525.2	126788
380-128740-2	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	525.2	126788
MB 380-126788/21-A	Method Blank	Total/NA	Water	525.2	126788
LCS 380-126788/23-A	Lab Control Sample	Total/NA	Water	525.2	126788
LCSD 380-126788/24-A	Lab Control Sample Dup	Total/NA	Water	525.2	126788
MRL 380-126788/22-A	Lab Control Sample	Total/NA	Water	525.2	126788
380-128694-B-1-A MS	Matrix Spike	Total/NA	Water	525.2	126788
380-128740-1 DU	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	525.2	126788

GC VOA

Analysis Batch: 521596

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-128740-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	8015B GRO LL	
380-128740-2	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	8015B GRO LL	
380-128740-3	TB:AIEA GULCH WELLS P1 (331-201-TP071)	Total/NA	Water	8015B GRO LL	
380-128740-4	TB:AIEA GULCH WELLS P2 (331-202-TP072)	Total/NA	Water	8015B GRO LL	
MB 570-521596/5	Method Blank	Total/NA	Water	8015B GRO LL	
LCS 570-521596/3	Lab Control Sample	Total/NA	Water	8015B GRO LL	
LCSD 570-521596/4	Lab Control Sample Dup	Total/NA	Water	8015B GRO LL	
MRL 570-521596/16	Lab Control Sample	Total/NA	Water	8015B GRO LL	
380-128745-C-1 MS	Matrix Spike	Total/NA	Water	8015B GRO LL	
380-128745-C-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8015B GRO LL	

Lab Chronicle

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

Job ID: 380-128740-1
SDG: Weekly

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

Lab Sample ID: 380-128740-1

Date Collected: 12/30/24 10:13

Matrix: Drinking Water

Date Received: 01/07/25 09:47

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			126788	OTM3	EA POM	01/08/25 07:51
Total/NA	Analysis	525.2		1	126881	UPAC	EA POM	01/08/25 17:07
Total/NA	Analysis	8015B GRO LL		1	521596	A9VE	EET CAL 4	01/09/25 18:17

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

Lab Sample ID: 380-128740-2

Date Collected: 12/30/24 10:34

Matrix: Drinking Water

Date Received: 01/07/25 09:47

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			126788	OTM3	EA POM	01/08/25 07:51
Total/NA	Analysis	525.2		1	126881	UPAC	EA POM	01/08/25 21:32
Total/NA	Analysis	8015B GRO LL		1	521596	A9VE	EET CAL 4	01/09/25 13:36

Client Sample ID: TB:AIEA GULCH WELLS P1 (331-201-TP071)

Lab Sample ID: 380-128740-3

Date Collected: 12/30/24 10:13

Matrix: Water

Date Received: 01/07/25 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	521596	A9VE	EET CAL 4	01/09/25 17:53

Client Sample ID: TB:AIEA GULCH WELLS P2 (331-202-TP072)

Lab Sample ID: 380-128740-4

Date Collected: 12/30/24 10:34

Matrix: Water

Date Received: 01/07/25 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	521596	A9VE	EET CAL 4	01/09/25 14:00

Laboratory References:

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

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

Accreditation/Certification Summary

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

Job ID: 380-128740-1
SDG: Weekly

Laboratory: Eurofins Eaton Analytical Pomona

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

Authority	Program	Identification Number	Expiration Date
Hawaii	State	CA00006	01-31-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
525.2	525.2	Drinking Water	1-Methylnaphthalene
525.2	525.2	Drinking Water	2,4'-DDD
525.2	525.2	Drinking Water	2,4'-DDE
525.2	525.2	Drinking Water	2,4'-DDT
525.2	525.2	Drinking Water	2,4-Dinitrotoluene
525.2	525.2	Drinking Water	2,6-Dinitrotoluene
525.2	525.2	Drinking Water	2-Methylnaphthalene
525.2	525.2	Drinking Water	4,4'-DDD
525.2	525.2	Drinking Water	4,4'-DDE
525.2	525.2	Drinking Water	4,4'-DDT
525.2	525.2	Drinking Water	Acetochlor
525.2	525.2	Drinking Water	alpha-BHC
525.2	525.2	Drinking Water	alpha-Chlordane
525.2	525.2	Drinking Water	beta-BHC
525.2	525.2	Drinking Water	Chlorobenzilate
525.2	525.2	Drinking Water	Chloroneb
525.2	525.2	Drinking Water	Chlorothalonil (Draconil, Bravo)
525.2	525.2	Drinking Water	Chlorpyrifos
525.2	525.2	Drinking Water	delta-BHC
525.2	525.2	Drinking Water	Diclorvos (DDVP)
525.2	525.2	Drinking Water	Endosulfan I (Alpha)
525.2	525.2	Drinking Water	Endosulfan II (Beta)
525.2	525.2	Drinking Water	Endosulfan sulfate
525.2	525.2	Drinking Water	Endrin aldehyde
525.2	525.2	Drinking Water	EPTC
525.2	525.2	Drinking Water	gamma-Chlordane
525.2	525.2	Drinking Water	Isophorone
525.2	525.2	Drinking Water	Malathion
525.2	525.2	Drinking Water	Parathion
525.2	525.2	Drinking Water	Pendimethalin (Penoxaline)
525.2	525.2	Drinking Water	Terbacil
525.2	525.2	Drinking Water	Terbutylazine
525.2	525.2	Drinking Water	Total Permethrin (mixed isomers)
525.2	525.2	Drinking Water	trans-Nonachlor

Laboratory: Eurofins Calscience

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

Authority	Program	Identification Number	Expiration Date
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

Eurofins Eaton Analytical Pomona

Accreditation/Certification Summary

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

Job ID: 380-128740-1
SDG: Weekly

Laboratory: Eurofins Calscience (Continued)

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

Authority	Program	Identification Number	Expiration Date
Nevada	State	CA00111	07-31-25
Oregon	NELAP	4175	02-02-25
USDA	US Federal Programs	525-23-159-97150	06-08-26
Washington	State	C916	10-11-25

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Method Summary

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

Job ID: 380-128740-1
SDG: Weekly

Method	Method Description	Protocol	Laboratory
525.2	Semivolatile Organic Compounds (GC/MS)	EPA	EA POM
8015B GRO LL	Gasoline Range Organics - (GC)	SW846	EET CAL 4
5030C	Purge and Trap	SW846	EET CAL 4
525.2	Extraction of Semivolatile Compounds	EPA	EA POM

Protocol References:

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: 380-128740-1
SDG: Weekly

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	PWSID Number
380-128740-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Drinking Water	12/30/24 10:13	01/07/25 09:47	HI0000331
380-128740-2	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Drinking Water	12/30/24 10:34	01/07/25 09:47	HI0000331
380-128740-3	TB:AIEA GULCH WELLS P1 (331-201-TP071)	Water	12/30/24 10:13	01/07/25 09:47	
380-128740-4	TB:AIEA GULCH WELLS P2 (331-202-TP072)	Water	12/30/24 10:34	01/07/25 09:47	

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Client Information		Lab PM: Arada, Rachelle		Carrier Tracking No(s):		COC No: 380-28005-2757 1					
Client Contact: Dr Ron Fenstermacher		Phone: +1 808 748 5840		State of Origin:		Page: Page 1 of 1					
Company: City & County of Honolulu		PWSID:		Job #:		Preservation Codes: R - NaHCO3 BA - NaThioHCl Q - Na2SO3 QA - Na2SO3/HCl Y - Trizma I - NH4 Acetate					
Address: 630 South Beretania Street Chemistry Lab Honolulu HI, 96843		Due Date Requested:		Analysis Requested		Other:					
City: Honolulu		TAT Requested (days):		537.1_DW_PREC - 537.1 Full List		Total Number of Containers					
State, Zip: HI, 96843		Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		525.2_PREC - (MOD) 525plus Plus TICs							
Phone: 808-748-5091(Tel)		PC #: C20525101 exp 05312023		8015B_DRO_LL_CS - HNL Ranges: C10-C24/C24-C36/C38-C18							
Email: RFENSTEMACHER@hbws.org		WO #:		8015B_GRO_LL - (MOD) GRO							
Project Name: RED-HILL/HBWS Sites Event Desc: RUSH Weekly Red Hill		Project #: 38001111		925.1_925.1_SLM							
Site: Hawaii		SSOW#:		Perform HEMSD (Yes or No)							
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Preservation Code	R	RA	Q	QA	Y	I	Special Instructions/Note:
Aiea Gulch Wells Pump 1	30-Dec-2024	10:13	G	Water	2	3	2	2			
Aiea Gulch Wells Pump 1 (Matrix Spike)				Water							
Aiea Gulch Wells Pump 1 (Matrix Spike Duplicate)	30-Dec-2024	10:13		Water							
TB: Aiea Gulch Wells Pump 1				Water							
Aiea Gulch Wells Pump 2	30-Dec-2024	10:36	G	Water	2	3	2	2			
Aiea Gulch Wells Pump 2 (Matrix Spike)				Water							
Aiea Gulch Wells Pump 2 (Matrix Spike Duplicate)	30-Dec-2024	10:36		Water							
TB: Aiea Gulch Wells Pump 2				Water							380-128740 COC
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 Deliverable Requested: I, II, III, IV, Other (specify)											
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months											
Special Instructions/QC Requirements:											
Empty Kit Relinquished by:		Date:		Method of Shipment:		077123837 0348					
Relinquished by:		Date/Time:		Received by:		0110725 09:47					
Relinquished by:		Date/Time:		Received by:		Company					
Relinquished by:		Date/Time:		Received by:		Company					
Custody Seals Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:		5.3-0.0-5.3					



Eurofins Eaton Analytical Pomona

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

Chain of Custody Record



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Loc: 380
128740

Client Information (Sub Contract Lab)		Sampler: N/A		Lab PM: Arada, Rachele		Carrier Tracking No(s): N/A		COC No: 380-180631.1												
Client Contact: Shipping/Receiving		Phone: N/A		E-Mail: Rachele.Arada@et.eurofinsus.com		State of Origin: Hawaii		Page: Page 1 of 1												
Company: Eurofins Environment Testing Southwest				Accreditations Required (See note): State - Hawaii				Job #: 380-128740-1												
Address: 2841 Dow Avenue, Suite 100,		Due Date Requested: 1/20/2025		Analysis Requested						Preservation Codes:										
City: Tustin		TAT Requested (days): N/A								Other: N/A										
State, Zip: CA, 92780		PO #: N/A		Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015B_DRO_LL_CS3510C_LL_HNL Ranges: C10-C24/C24-C36/C8-C18	625.1_SIM/625_Prep (MOD) Extended PAH List	8015B_GRO_LLJ5030C (MOD) GRO	Total Number of containers	Special Instructions/Note:										
Phone: 714-895-5494(Tel)		WO #: N/A																		
Email: N/A		Project #: 38001111																		
Project Name: RED-HILL		SSOW#: N/A																		
Site: Honolulu BWS Sites																				
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wast/oli, BT=Tissue, A=Air)															
											Preservation Code:									
AIEA GULCH WELLS PUMP 1 (331-201-TP071) (380-128740-1)		12/30/24	10:13 Hawaiian	G	Water		X	X	X										7	MRLs are needed. Confirm any hits >RL.
AIEA GULCH WELLS PUMP 2 (331-202-TP072) (380-128740-2)		12/30/24	10:34 Hawaiian	G	Water		X	X	X										7	MRLs are needed. Confirm any hits >RL.
TB:AIEA GULCH WELLS P1 (331-201-TP071) (380-128740-3)		12/30/24	10:13 Hawaiian	G	Water				X										2	MRLs are needed.
TB:AIEA GULCH WELLS P2 (331-202-TP072) (380-128740-4)		12/30/24	10:34 Hawaiian	G	Water				X										2	MRLs are needed.



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

Possible Hazard Identification				Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)			
Unconfirmed				<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			
Deliverable Requested: I, II, III, IV, Other (specify)		Primary Deliverable Rank: 2		Special Instructions/QC Requirements:			
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:	
Relinquished by: <i>[Signature]</i>		Date/Time: 01/07/25 1504		Company: EEAP		Received by: <i>[Signature]</i>	
Relinquished by: <i>[Signature]</i>		Date/Time: 01-7-25 1600		Company: WP		Date/Time: 1-7-25 16:00	
Relinquished by:		Date/Time:		Company:		Received by:	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 1.5/1.7 SC14			



Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-128740-1

SDG Number: Weekly

Login Number: 128740

List Number: 1

Creator: Ngo, Theodore

List Source: Eurofins Eaton Analytical Pomona

Question	Answer	Comment
The coolers custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
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)	False	Refer to Job Narrative for details.
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: 380-128740-1

SDG Number: Weekly

Login Number: 128740

List Number: 2

Creator: Khana, Piyush

List Source: Eurofins Calscience

List Creation: 01/07/25 07:15 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	1.7
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)	False	Refer to Job Narrative for details.
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	