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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: Aiea Gulch Wells Pump 1/Pump2
RUSH Weekly Red Hill

JOB NUMBER

380-170527-1

Eurofins Eaton Analytical Pomona

Job Notes

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

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

Compliance Statement

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

Authorization



Authorized for release by
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Definitions/Glossary

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

Job ID: 380-170527-1
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump2

Qualifiers

GC/MS Semi VOA

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

GC/MS Semi VOA TICs

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

GC Semi VOA

Qualifier	Qualifier Description
^3+	Reporting Limit Check Standard is outside acceptance 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: 380-170527-1

Job ID: 380-170527-1

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Job Narrative 380-170527-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt

The samples were received on 9/10/2025 9:35 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 1.1°C and 2.7°C.

Receipt Exceptions

Method 8015B_GRO TB: AIEA GULCH WELLS PUMP 1 (380-170527-3) collected on 09/08/25 is a resample for AIEA GULCH WELLS PUMP 1 (331-201-TP071) (380-169541-1) TB collected on 09/02/25. (XWB4)
TB: AIEA GULCH WELLS PUMP 1 (380-170527-3)

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: The method reporting limit check (MRL) for preparation batch 570-625548 and analytical batch 570-626815 recovered outside control limits for the following analytes: C10-C28. These analytes were biased high in the MRL and were not detected in the associated samples; therefore, the data have been reported.

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

Detection Summary

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

Job ID: 380-170527-1
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump2

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

Lab Sample ID: 380-170527-1

No Detections.

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

Lab Sample ID: 380-170527-2

No Detections.

Client Sample ID: TB: AIEA GULCH WELLS PUMP 1

Lab Sample ID: 380-170527-3

No Detections.

Client Sample ID: TB: AIEA GULCH WELLS PUMP 2

Lab Sample ID: 380-170527-4

No Detections.

This Detection Summary does not include radiochemical test results.

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Client Sample Results

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

Job ID: 380-170527-1
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump2

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

Lab Sample ID: 380-170527-1

Date Collected: 09/08/25 10:52

Matrix: Drinking Water

Date Received: 09/10/25 09:35

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		09/11/25 09:20	09/12/25 13:45	1
2,4'-DDD	<0.098		0.098	ug/L		09/11/25 09:20	09/12/25 13:45	1
2,4'-DDE	<0.098		0.098	ug/L		09/11/25 09:20	09/12/25 13:45	1
2,4'-DDT	<0.098		0.098	ug/L		09/11/25 09:20	09/12/25 13:45	1
2,4-Dinitrotoluene	<0.098		0.098	ug/L		09/11/25 09:20	09/12/25 13:45	1
2,6-Dinitrotoluene	<0.098		0.098	ug/L		09/11/25 09:20	09/12/25 13:45	1
2-Methylnaphthalene	<0.098		0.098	ug/L		09/11/25 09:20	09/12/25 13:45	1
4,4'-DDD	<0.098		0.098	ug/L		09/11/25 09:20	09/12/25 13:45	1
4,4'-DDE	<0.098		0.098	ug/L		09/11/25 09:20	09/12/25 13:45	1
4,4'-DDT	<0.098		0.098	ug/L		09/11/25 09:20	09/12/25 13:45	1
Acenaphthene	<0.098		0.098	ug/L		09/11/25 09:20	09/12/25 13:45	1
Acenaphthylene	<0.098		0.098	ug/L		09/11/25 09:20	09/12/25 13:45	1
Acetochlor	<0.098		0.098	ug/L		09/11/25 09:20	09/12/25 13:45	1
Alachlor	<0.049		0.049	ug/L		09/11/25 09:20	09/12/25 13:45	1
alpha-BHC	<0.098		0.098	ug/L		09/11/25 09:20	09/12/25 13:45	1
alpha-Chlordane	<0.049		0.049	ug/L		09/11/25 09:20	09/12/25 13:45	1
Anthracene	<0.020		0.020	ug/L		09/11/25 09:20	09/12/25 13:45	1
Atrazine	<0.049		0.049	ug/L		09/11/25 09:20	09/12/25 13:45	1
Benz(a)anthracene	<0.049		0.049	ug/L		09/11/25 09:20	09/12/25 13:45	1
Benzo[a]pyrene	<0.020		0.020	ug/L		09/11/25 09:20	09/12/25 13:45	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		09/11/25 09:20	09/12/25 13:45	1
Benzo[g,h,i]perylene	<0.049		0.049	ug/L		09/11/25 09:20	09/12/25 13:45	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		09/11/25 09:20	09/12/25 13:45	1
beta-BHC	<0.098		0.098	ug/L		09/11/25 09:20	09/12/25 13:45	1
Bis(2-ethylhexyl) phthalate	<0.59		0.59	ug/L		09/11/25 09:20	09/12/25 13:45	1
Bromacil	<0.098		0.098	ug/L		09/11/25 09:20	09/12/25 13:45	1
Butachlor	<0.049		0.049	ug/L		09/11/25 09:20	09/12/25 13:45	1
Butylbenzylphthalate	<0.49		0.49	ug/L		09/11/25 09:20	09/12/25 13:45	1
Chlorobenzilate	<0.098		0.098	ug/L		09/11/25 09:20	09/12/25 13:45	1
Chloroneb	<0.098		0.098	ug/L		09/11/25 09:20	09/12/25 13:45	1
Chlorothalonil (Draconil, Bravo)	<0.098		0.098	ug/L		09/11/25 09:20	09/12/25 13:45	1
Chlorpyrifos	<0.049		0.049	ug/L		09/11/25 09:20	09/12/25 13:45	1
Chrysene	<0.020		0.020	ug/L		09/11/25 09:20	09/12/25 13:45	1
delta-BHC	<0.098		0.098	ug/L		09/11/25 09:20	09/12/25 13:45	1
Di(2-ethylhexyl)adipate	<0.59		0.59	ug/L		09/11/25 09:20	09/12/25 13:45	1
Dibenz(a,h)anthracene	<0.049		0.049	ug/L		09/11/25 09:20	09/12/25 13:45	1
Diclorvos (DDVP)	<0.049		0.049	ug/L		09/11/25 09:20	09/12/25 13:45	1
Dieldrin	<0.0098		0.0098	ug/L		09/11/25 09:20	09/12/25 13:45	1
Diethylphthalate	<0.49		0.49	ug/L		09/11/25 09:20	09/12/25 13:45	1
Dimethylphthalate	<0.49		0.49	ug/L		09/11/25 09:20	09/12/25 13:45	1
Di-n-butyl phthalate	<0.98		0.98	ug/L		09/11/25 09:20	09/12/25 13:45	1
Di-n-octyl phthalate	<0.098		0.098	ug/L		09/11/25 09:20	09/12/25 13:45	1
Endosulfan I (Alpha)	<0.098		0.098	ug/L		09/11/25 09:20	09/12/25 13:45	1
Endosulfan II (Beta)	<0.098		0.098	ug/L		09/11/25 09:20	09/12/25 13:45	1
Endosulfan sulfate	<0.098		0.098	ug/L		09/11/25 09:20	09/12/25 13:45	1
Endrin	<0.0098		0.0098	ug/L		09/11/25 09:20	09/12/25 13:45	1
Endrin aldehyde	<0.098		0.098	ug/L		09/11/25 09:20	09/12/25 13:45	1
EPTC	<0.098		0.098	ug/L		09/11/25 09:20	09/12/25 13:45	1

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Client Sample Results

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

Job ID: 380-170527-1
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump2

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

Lab Sample ID: 380-170527-1

Date Collected: 09/08/25 10:52

Matrix: Drinking Water

Date Received: 09/10/25 09:35

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		09/11/25 09:20	09/12/25 13:45	1
Fluorene	<0.049		0.049	ug/L		09/11/25 09:20	09/12/25 13:45	1
gamma-Chlordane	<0.049		0.049	ug/L		09/11/25 09:20	09/12/25 13:45	1
Heptachlor	<0.0098		0.0098	ug/L		09/11/25 09:20	09/12/25 13:45	1
Heptachlor epoxide (isomer B)	<0.0098		0.0098	ug/L		09/11/25 09:20	09/12/25 13:45	1
Hexachlorobenzene	<0.049		0.049	ug/L		09/11/25 09:20	09/12/25 13:45	1
Hexachlorocyclopentadiene	<0.049		0.049	ug/L		09/11/25 09:20	09/12/25 13:45	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049	ug/L		09/11/25 09:20	09/12/25 13:45	1
Isophorone	<0.098		0.098	ug/L		09/11/25 09:20	09/12/25 13:45	1
Lindane	<0.0098		0.0098	ug/L		09/11/25 09:20	09/12/25 13:45	1
Malathion	<0.098		0.098	ug/L		09/11/25 09:20	09/12/25 13:45	1
Methoxychlor	<0.049		0.049	ug/L		09/11/25 09:20	09/12/25 13:45	1
Metolachlor	<0.049		0.049	ug/L		09/11/25 09:20	09/12/25 13:45	1
Molinate	<0.098		0.098	ug/L		09/11/25 09:20	09/12/25 13:45	1
Naphthalene	<0.098		0.098	ug/L		09/11/25 09:20	09/12/25 13:45	1
Parathion	<0.098		0.098	ug/L		09/11/25 09:20	09/12/25 13:45	1
Pendimethalin (Penoxaline)	<0.098		0.098	ug/L		09/11/25 09:20	09/12/25 13:45	1
Phenanthrene	<0.039		0.039	ug/L		09/11/25 09:20	09/12/25 13:45	1
Propachlor	<0.049		0.049	ug/L		09/11/25 09:20	09/12/25 13:45	1
Pyrene	<0.049		0.049	ug/L		09/11/25 09:20	09/12/25 13:45	1
Simazine	<0.049		0.049	ug/L		09/11/25 09:20	09/12/25 13:45	1
Terbacil	<0.098		0.098	ug/L		09/11/25 09:20	09/12/25 13:45	1
Terbutylazine	<0.098		0.098	ug/L		09/11/25 09:20	09/12/25 13:45	1
Thiobencarb	<0.098		0.098	ug/L		09/11/25 09:20	09/12/25 13:45	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		09/11/25 09:20	09/12/25 13:45	1
trans-Nonachlor	<0.049		0.049	ug/L		09/11/25 09:20	09/12/25 13:45	1
Trifluralin	<0.098		0.098	ug/L		09/11/25 09:20	09/12/25 13:45	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	09/11/25 09:20	09/12/25 13:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	98		70 - 130	09/11/25 09:20	09/12/25 13:45	1
Perylene-d12	89		70 - 130	09/11/25 09:20	09/12/25 13:45	1
Triphenylphosphate	106		70 - 130	09/11/25 09:20	09/12/25 13:45	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		09/15/25 04:33	09/17/25 20:58	1
2-Methylnaphthalene	<0.19		0.19	ug/L		09/15/25 04:33	09/17/25 20:58	1
Acenaphthene	<0.19		0.19	ug/L		09/15/25 04:33	09/17/25 20:58	1
Acenaphthylene	<0.19		0.19	ug/L		09/15/25 04:33	09/17/25 20:58	1
Anthracene	<0.19		0.19	ug/L		09/15/25 04:33	09/17/25 20:58	1
Benzo[a]anthracene	<0.19		0.19	ug/L		09/15/25 04:33	09/17/25 20:58	1
Benzo[a]pyrene	<0.19		0.19	ug/L		09/15/25 04:33	09/17/25 20:58	1
Benzo[b]fluoranthene	<0.19		0.19	ug/L		09/15/25 04:33	09/17/25 20:58	1
Benzo[g,h,i]perylene	<0.19		0.19	ug/L		09/15/25 04:33	09/17/25 20:58	1
Benzo[k]fluoranthene	<0.19		0.19	ug/L		09/15/25 04:33	09/17/25 20:58	1
Chrysene	<0.19		0.19	ug/L		09/15/25 04:33	09/17/25 20:58	1

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Client Sample Results

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

Job ID: 380-170527-1
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump2

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

Lab Sample ID: 380-170527-1

Date Collected: 09/08/25 10:52

Matrix: Drinking Water

Date Received: 09/10/25 09:35

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		09/15/25 04:33	09/17/25 20:58	1
Fluoranthene	<0.19		0.19	ug/L		09/15/25 04:33	09/17/25 20:58	1
Fluorene	<0.19		0.19	ug/L		09/15/25 04:33	09/17/25 20:58	1
Indeno[1,2,3-cd]pyrene	<0.19		0.19	ug/L		09/15/25 04:33	09/17/25 20:58	1
Naphthalene	<0.19		0.19	ug/L		09/15/25 04:33	09/17/25 20:58	1
Phenanthrene	<0.19		0.19	ug/L		09/15/25 04:33	09/17/25 20:58	1
Pyrene	<0.19		0.19	ug/L		09/15/25 04:33	09/17/25 20:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	74		28 - 127			09/15/25 04:33	09/17/25 20:58	1
2-Fluorobiphenyl (Surr)	69		31 - 120			09/15/25 04:33	09/17/25 20:58	1
2-Fluorophenol (Surr)	44		17 - 120			09/15/25 04:33	09/17/25 20:58	1
Nitrobenzene-d5 (Surr)	69		27 - 120			09/15/25 04:33	09/17/25 20:58	1
Phenol-d6 (Surr)	25		10 - 120			09/15/25 04:33	09/17/25 20:58	1
p-Terphenyl-d14 (Surr)	70		45 - 120			09/15/25 04:33	09/17/25 20:58	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	09/15/25 04:33	09/22/25 12:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	68		33 - 139				09/15/25 04:33	09/22/25 12:15	1
2-Fluorobiphenyl (Surr)	71		33 - 126				09/15/25 04:33	09/22/25 12:15	1
2-Fluorophenol (Surr)	46		12 - 120				09/15/25 04:33	09/22/25 12:15	1
Nitrobenzene-d5 (Surr)	72		36 - 120				09/15/25 04:33	09/22/25 12:15	1
Phenol-d6 (Surr)	25		10 - 120				09/15/25 04:33	09/22/25 12:15	1
p-Terphenyl-d14 (Surr)	76		47 - 131				09/15/25 04:33	09/22/25 12:15	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			09/13/25 20:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		38 - 134				09/13/25 20:42	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		09/15/25 09:17	09/17/25 15:52	1
Motor Oil Range Organics [C24-C36]	<26		26	ug/L		09/15/25 09:17	09/17/25 15:52	1
C8-C18	<26		26	ug/L		09/15/25 09:17	09/17/25 15:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	107		60 - 130			09/15/25 09:17	09/17/25 15:52	1

Client Sample Results

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

Job ID: 380-170527-1
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump2

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

Lab Sample ID: 380-170527-2

Date Collected: 09/08/25 11:11

Matrix: Drinking Water

Date Received: 09/10/25 09:35

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		09/11/25 09:20	09/12/25 14:06	1
2,4'-DDD	<0.098		0.098	ug/L		09/11/25 09:20	09/12/25 14:06	1
2,4'-DDE	<0.098		0.098	ug/L		09/11/25 09:20	09/12/25 14:06	1
2,4'-DDT	<0.098		0.098	ug/L		09/11/25 09:20	09/12/25 14:06	1
2,4-Dinitrotoluene	<0.098		0.098	ug/L		09/11/25 09:20	09/12/25 14:06	1
2,6-Dinitrotoluene	<0.098		0.098	ug/L		09/11/25 09:20	09/12/25 14:06	1
2-Methylnaphthalene	<0.098		0.098	ug/L		09/11/25 09:20	09/12/25 14:06	1
4,4'-DDD	<0.098		0.098	ug/L		09/11/25 09:20	09/12/25 14:06	1
4,4'-DDE	<0.098		0.098	ug/L		09/11/25 09:20	09/12/25 14:06	1
4,4'-DDT	<0.098		0.098	ug/L		09/11/25 09:20	09/12/25 14:06	1
Acenaphthene	<0.098		0.098	ug/L		09/11/25 09:20	09/12/25 14:06	1
Acenaphthylene	<0.098		0.098	ug/L		09/11/25 09:20	09/12/25 14:06	1
Acetochlor	<0.098		0.098	ug/L		09/11/25 09:20	09/12/25 14:06	1
Alachlor	<0.049		0.049	ug/L		09/11/25 09:20	09/12/25 14:06	1
alpha-BHC	<0.098		0.098	ug/L		09/11/25 09:20	09/12/25 14:06	1
alpha-Chlordane	<0.049		0.049	ug/L		09/11/25 09:20	09/12/25 14:06	1
Anthracene	<0.020		0.020	ug/L		09/11/25 09:20	09/12/25 14:06	1
Atrazine	<0.049		0.049	ug/L		09/11/25 09:20	09/12/25 14:06	1
Benz(a)anthracene	<0.049		0.049	ug/L		09/11/25 09:20	09/12/25 14:06	1
Benzo[a]pyrene	<0.020		0.020	ug/L		09/11/25 09:20	09/12/25 14:06	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		09/11/25 09:20	09/12/25 14:06	1
Benzo[g,h,i]perylene	<0.049		0.049	ug/L		09/11/25 09:20	09/12/25 14:06	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		09/11/25 09:20	09/12/25 14:06	1
beta-BHC	<0.098		0.098	ug/L		09/11/25 09:20	09/12/25 14:06	1
Bis(2-ethylhexyl) phthalate	<0.59		0.59	ug/L		09/11/25 09:20	09/12/25 14:06	1
Bromacil	<0.098		0.098	ug/L		09/11/25 09:20	09/12/25 14:06	1
Butachlor	<0.049		0.049	ug/L		09/11/25 09:20	09/12/25 14:06	1
Butylbenzylphthalate	<0.49		0.49	ug/L		09/11/25 09:20	09/12/25 14:06	1
Chlorobenzilate	<0.098		0.098	ug/L		09/11/25 09:20	09/12/25 14:06	1
Chloroneb	<0.098		0.098	ug/L		09/11/25 09:20	09/12/25 14:06	1
Chlorothalonil (Draconil, Bravo)	<0.098		0.098	ug/L		09/11/25 09:20	09/12/25 14:06	1
Chlorpyrifos	<0.049		0.049	ug/L		09/11/25 09:20	09/12/25 14:06	1
Chrysene	<0.020		0.020	ug/L		09/11/25 09:20	09/12/25 14:06	1
delta-BHC	<0.098		0.098	ug/L		09/11/25 09:20	09/12/25 14:06	1
Di(2-ethylhexyl)adipate	<0.59		0.59	ug/L		09/11/25 09:20	09/12/25 14:06	1
Dibenz(a,h)anthracene	<0.049		0.049	ug/L		09/11/25 09:20	09/12/25 14:06	1
Diclorvos (DDVP)	<0.049		0.049	ug/L		09/11/25 09:20	09/12/25 14:06	1
Dieldrin	<0.0098		0.0098	ug/L		09/11/25 09:20	09/12/25 14:06	1
Diethylphthalate	<0.49		0.49	ug/L		09/11/25 09:20	09/12/25 14:06	1
Dimethylphthalate	<0.49		0.49	ug/L		09/11/25 09:20	09/12/25 14:06	1
Di-n-butyl phthalate	<0.98		0.98	ug/L		09/11/25 09:20	09/12/25 14:06	1
Di-n-octyl phthalate	<0.098		0.098	ug/L		09/11/25 09:20	09/12/25 14:06	1
Endosulfan I (Alpha)	<0.098		0.098	ug/L		09/11/25 09:20	09/12/25 14:06	1
Endosulfan II (Beta)	<0.098		0.098	ug/L		09/11/25 09:20	09/12/25 14:06	1
Endosulfan sulfate	<0.098		0.098	ug/L		09/11/25 09:20	09/12/25 14:06	1
Endrin	<0.0098		0.0098	ug/L		09/11/25 09:20	09/12/25 14:06	1
Endrin aldehyde	<0.098		0.098	ug/L		09/11/25 09:20	09/12/25 14:06	1
EPTC	<0.098		0.098	ug/L		09/11/25 09:20	09/12/25 14:06	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-170527-1
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump2

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

Lab Sample ID: 380-170527-2

Date Collected: 09/08/25 11:11

Matrix: Drinking Water

Date Received: 09/10/25 09:35

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		09/11/25 09:20	09/12/25 14:06	1
Fluorene	<0.049		0.049	ug/L		09/11/25 09:20	09/12/25 14:06	1
gamma-Chlordane	<0.049		0.049	ug/L		09/11/25 09:20	09/12/25 14:06	1
Heptachlor	<0.0098		0.0098	ug/L		09/11/25 09:20	09/12/25 14:06	1
Heptachlor epoxide (isomer B)	<0.0098		0.0098	ug/L		09/11/25 09:20	09/12/25 14:06	1
Hexachlorobenzene	<0.049		0.049	ug/L		09/11/25 09:20	09/12/25 14:06	1
Hexachlorocyclopentadiene	<0.049		0.049	ug/L		09/11/25 09:20	09/12/25 14:06	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049	ug/L		09/11/25 09:20	09/12/25 14:06	1
Isophorone	<0.098		0.098	ug/L		09/11/25 09:20	09/12/25 14:06	1
Lindane	<0.0098		0.0098	ug/L		09/11/25 09:20	09/12/25 14:06	1
Malathion	<0.098		0.098	ug/L		09/11/25 09:20	09/12/25 14:06	1
Methoxychlor	<0.049		0.049	ug/L		09/11/25 09:20	09/12/25 14:06	1
Metolachlor	<0.049		0.049	ug/L		09/11/25 09:20	09/12/25 14:06	1
Molinate	<0.098		0.098	ug/L		09/11/25 09:20	09/12/25 14:06	1
Naphthalene	<0.098		0.098	ug/L		09/11/25 09:20	09/12/25 14:06	1
Parathion	<0.098		0.098	ug/L		09/11/25 09:20	09/12/25 14:06	1
Pendimethalin (Penoxaline)	<0.098		0.098	ug/L		09/11/25 09:20	09/12/25 14:06	1
Phenanthrene	<0.039		0.039	ug/L		09/11/25 09:20	09/12/25 14:06	1
Propachlor	<0.049		0.049	ug/L		09/11/25 09:20	09/12/25 14:06	1
Pyrene	<0.049		0.049	ug/L		09/11/25 09:20	09/12/25 14:06	1
Simazine	<0.049		0.049	ug/L		09/11/25 09:20	09/12/25 14:06	1
Terbacil	<0.098		0.098	ug/L		09/11/25 09:20	09/12/25 14:06	1
Terbutylazine	<0.098		0.098	ug/L		09/11/25 09:20	09/12/25 14:06	1
Thiobencarb	<0.098		0.098	ug/L		09/11/25 09:20	09/12/25 14:06	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		09/11/25 09:20	09/12/25 14:06	1
trans-Nonachlor	<0.049		0.049	ug/L		09/11/25 09:20	09/12/25 14:06	1
Trifluralin	<0.098		0.098	ug/L		09/11/25 09:20	09/12/25 14:06	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	09/11/25 09:20	09/12/25 14:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	97		70 - 130	09/11/25 09:20	09/12/25 14:06	1
Perylene-d12	89		70 - 130	09/11/25 09:20	09/12/25 14:06	1
Triphenylphosphate	106		70 - 130	09/11/25 09:20	09/12/25 14:06	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		09/15/25 04:33	09/17/25 21:20	1
2-Methylnaphthalene	<0.19		0.19	ug/L		09/15/25 04:33	09/17/25 21:20	1
Acenaphthene	<0.19		0.19	ug/L		09/15/25 04:33	09/17/25 21:20	1
Acenaphthylene	<0.19		0.19	ug/L		09/15/25 04:33	09/17/25 21:20	1
Anthracene	<0.19		0.19	ug/L		09/15/25 04:33	09/17/25 21:20	1
Benzo[a]anthracene	<0.19		0.19	ug/L		09/15/25 04:33	09/17/25 21:20	1
Benzo[a]pyrene	<0.19		0.19	ug/L		09/15/25 04:33	09/17/25 21:20	1
Benzo[b]fluoranthene	<0.19		0.19	ug/L		09/15/25 04:33	09/17/25 21:20	1
Benzo[g,h,i]perylene	<0.19		0.19	ug/L		09/15/25 04:33	09/17/25 21:20	1
Benzo[k]fluoranthene	<0.19		0.19	ug/L		09/15/25 04:33	09/17/25 21:20	1
Chrysene	<0.19		0.19	ug/L		09/15/25 04:33	09/17/25 21:20	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-170527-1
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump2

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

Lab Sample ID: 380-170527-2

Date Collected: 09/08/25 11:11
Date Received: 09/10/25 09:35

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		09/15/25 04:33	09/17/25 21:20	1
Fluoranthene	<0.19		0.19	ug/L		09/15/25 04:33	09/17/25 21:20	1
Fluorene	<0.19		0.19	ug/L		09/15/25 04:33	09/17/25 21:20	1
Indeno[1,2,3-cd]pyrene	<0.19		0.19	ug/L		09/15/25 04:33	09/17/25 21:20	1
Naphthalene	<0.19		0.19	ug/L		09/15/25 04:33	09/17/25 21:20	1
Phenanthrene	<0.19		0.19	ug/L		09/15/25 04:33	09/17/25 21:20	1
Pyrene	<0.19		0.19	ug/L		09/15/25 04:33	09/17/25 21:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	80		28 - 127			09/15/25 04:33	09/17/25 21:20	1
2-Fluorobiphenyl (Surr)	78		31 - 120			09/15/25 04:33	09/17/25 21:20	1
2-Fluorophenol (Surr)	46		17 - 120			09/15/25 04:33	09/17/25 21:20	1
Nitrobenzene-d5 (Surr)	74		27 - 120			09/15/25 04:33	09/17/25 21:20	1
Phenol-d6 (Surr)	27		10 - 120			09/15/25 04:33	09/17/25 21:20	1
p-Terphenyl-d14 (Surr)	77		45 - 120			09/15/25 04:33	09/17/25 21:20	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	09/15/25 04:33	09/22/25 13:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	79		33 - 139				09/15/25 04:33	09/22/25 13:03	1
2-Fluorobiphenyl (Surr)	78		33 - 126				09/15/25 04:33	09/22/25 13:03	1
2-Fluorophenol (Surr)	47		12 - 120				09/15/25 04:33	09/22/25 13:03	1
Nitrobenzene-d5 (Surr)	82		36 - 120				09/15/25 04:33	09/22/25 13:03	1
Phenol-d6 (Surr)	26		10 - 120				09/15/25 04:33	09/22/25 13:03	1
p-Terphenyl-d14 (Surr)	81		47 - 131				09/15/25 04:33	09/22/25 13:03	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			09/13/25 21:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		38 - 134				09/13/25 21:02	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		09/15/25 09:17	09/17/25 16:13	1
Motor Oil Range Organics [C24-C36]	<26		26	ug/L		09/15/25 09:17	09/17/25 16:13	1
C8-C18	<26		26	ug/L		09/15/25 09:17	09/17/25 16:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	108		60 - 130			09/15/25 09:17	09/17/25 16:13	1

Client Sample Results

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

Job ID: 380-170527-1
 SDG: Weekly: Aiea Gulch Wells Pump 1/Pump2

Client Sample ID: TB: AIEA GULCH WELLS PUMP 1

Lab Sample ID: 380-170527-3

Date Collected: 09/08/25 10:52

Matrix: Water

Date Received: 09/10/25 09:35

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	-		09/14/25 00:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		38 - 134				09/14/25 00:02	1

Client Sample ID: TB: AIEA GULCH WELLS PUMP 2

Lab Sample ID: 380-170527-4

Date Collected: 09/08/25 11:11

Matrix: Water

Date Received: 09/10/25 09:35

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	-		09/14/25 00:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		38 - 134				09/14/25 00:22	1

Action Limit Summary

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

Job ID: 380-170527-1
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump2

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

Lab Sample ID: 380-170527-1

Compliance Check

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

Analyte	Result	Qualifier	Unit	EPAMCL	RL	Method	Prep Type
				Limit			
Alachlor	<0.049		ug/L	2	0.049	525.2	Total/NA
Atrazine	<0.049		ug/L	3	0.049	525.2	Total/NA
Benzo[a]pyrene	<0.020		ug/L	0.2	0.020	525.2	Total/NA
Bis(2-ethylhexyl) phthalate	<0.59		ug/L	6	0.59	525.2	Total/NA
Di(2-ethylhexyl)adipate	<0.59		ug/L	400	0.59	525.2	Total/NA
Endrin	<0.0098		ug/L	2	0.0098	525.2	Total/NA
Heptachlor	<0.0098		ug/L	0.4	0.0098	525.2	Total/NA
Heptachlor epoxide (isomer B)	<0.0098		ug/L	0.2	0.0098	525.2	Total/NA
Hexachlorobenzene	<0.049		ug/L	1	0.049	525.2	Total/NA
Hexachlorocyclopentadiene	<0.049		ug/L	50	0.049	525.2	Total/NA
Lindane	<0.0098		ug/L	0.2	0.0098	525.2	Total/NA
Methoxychlor	<0.049		ug/L	40	0.049	525.2	Total/NA
Simazine	<0.049		ug/L	4	0.049	525.2	Total/NA
Benzo[a]pyrene	<0.19		ug/L	0.2	0.19	625.1 SIM	Total/NA

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

Lab Sample ID: 380-170527-2

Compliance Check

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

Analyte	Result	Qualifier	Unit	EPAMCL	RL	Method	Prep Type
				Limit			
Alachlor	<0.049		ug/L	2	0.049	525.2	Total/NA
Atrazine	<0.049		ug/L	3	0.049	525.2	Total/NA
Benzo[a]pyrene	<0.020		ug/L	0.2	0.020	525.2	Total/NA
Bis(2-ethylhexyl) phthalate	<0.59		ug/L	6	0.59	525.2	Total/NA
Di(2-ethylhexyl)adipate	<0.59		ug/L	400	0.59	525.2	Total/NA
Endrin	<0.0098		ug/L	2	0.0098	525.2	Total/NA
Heptachlor	<0.0098		ug/L	0.4	0.0098	525.2	Total/NA
Heptachlor epoxide (isomer B)	<0.0098		ug/L	0.2	0.0098	525.2	Total/NA
Hexachlorobenzene	<0.049		ug/L	1	0.049	525.2	Total/NA
Hexachlorocyclopentadiene	<0.049		ug/L	50	0.049	525.2	Total/NA
Lindane	<0.0098		ug/L	0.2	0.0098	525.2	Total/NA
Methoxychlor	<0.049		ug/L	40	0.049	525.2	Total/NA
Simazine	<0.049		ug/L	4	0.049	525.2	Total/NA
Benzo[a]pyrene	<0.19		ug/L	0.2	0.19	625.1 SIM	Total/NA

Surrogate Summary

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

Job ID: 380-170527-1
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump2

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)
380-170527-1	AIEA GULCH WELLS PUMP 1 (331	98	89	106
380-170527-2	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	97	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)
380-170490-P-1-A MS	Matrix Spike	103	95	89
380-170493-I-1-A DU	Duplicate	100	90	103
LCS 380-173515/22-A	Lab Control Sample	96	91	105
MB 380-173515/20-A	Method Blank	98	93	106
MRL 380-173515/21-A	Lab Control Sample	98	87	103

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)
380-170527-1	AIEA GULCH WELLS PUMP 1 (331	68	71	46	72	25	76
380-170527-2	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	79	78	47	82	26	81

Surrogate Legend

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

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (33-139)	FBP (33-126)	2FP (12-120)	NBZ (36-120)	PHL6 (10-120)	TPHd14 (47-131)
MB 570-625449/1-A	Method Blank	68	67	49	70	28	73

Surrogate Legend

Surrogate Summary

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

Job ID: 380-170527-1
 SDG: Weekly: Aiea Gulch Wells Pump 1/Pump2

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)
380-170527-1	AIEA GULCH WELLS PUMP 1 (331)	74	69	44	69	25	70
380-170527-2	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	80	78	46	74	27	77

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)
380-170493-A-1-A MS	Matrix Spike	80	78	55	64	35	78
380-170493-A-1-B MSD	Matrix Spike Duplicate	71	73	52	61	33	71
LCS 570-625449/2-A	Lab Control Sample	66	66	48	56	31	68
LCSD 570-625449/3-A	Lab Control Sample Dup	78	79	57	66	37	77
MB 570-625449/1-A	Method Blank	75	69	47	67	29	73

Surrogate Legend

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

Method: 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)
380-170527-1	AIEA GULCH WELLS PUMP 1 (331)	95
380-170527-2	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	98

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

Surrogate Summary

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

Job ID: 380-170527-1
 SDG: Weekly: Aiea Gulch Wells Pump 1/Pump2

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)
380-170493-B-1 MS	Matrix Spike	102
380-170493-B-1 MSD	Matrix Spike Duplicate	98
380-170527-3	TB: AIEA GULCH WELLS PUMP 1	97
380-170527-4	TB: AIEA GULCH WELLS PUMP 2	95
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)
380-170527-1	AIEA GULCH WELLS PUMP 1 (331	107
380-170527-2	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	108
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)
380-170493-C-1-A MS	Matrix Spike	105
380-170493-C-1-B MSD	Matrix Spike Duplicate	108
LCS 570-625548/2-A	Lab Control Sample	104
LCSD 570-625548/3-A	Lab Control Sample Dup	97
MB 570-625548/1-A	Method Blank	96
MRL 570-625548/4-A	Lab Control Sample	93
Surrogate Legend		
OTCSN = n-Octacosane (Surr)		

QC Sample Results

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

Job ID: 380-170527-1
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump2

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

Lab Sample ID: MB 380-173515/20-A
Matrix: Water
Analysis Batch: 173627

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 173515

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
1-Methylnaphthalene	<0.098		0.098	ug/L		09/11/25 09:20	09/12/25 10:44	1
2,4'-DDD	<0.098		0.098	ug/L		09/11/25 09:20	09/12/25 10:44	1
2,4'-DDE	<0.098		0.098	ug/L		09/11/25 09:20	09/12/25 10:44	1
2,4'-DDT	<0.098		0.098	ug/L		09/11/25 09:20	09/12/25 10:44	1
2,4-Dinitrotoluene	<0.098		0.098	ug/L		09/11/25 09:20	09/12/25 10:44	1
2,6-Dinitrotoluene	<0.098		0.098	ug/L		09/11/25 09:20	09/12/25 10:44	1
2-Methylnaphthalene	<0.098		0.098	ug/L		09/11/25 09:20	09/12/25 10:44	1
4,4'-DDD	<0.098		0.098	ug/L		09/11/25 09:20	09/12/25 10:44	1
4,4'-DDE	<0.098		0.098	ug/L		09/11/25 09:20	09/12/25 10:44	1
4,4'-DDT	<0.098		0.098	ug/L		09/11/25 09:20	09/12/25 10:44	1
Acenaphthene	<0.098		0.098	ug/L		09/11/25 09:20	09/12/25 10:44	1
Acenaphthylene	<0.098		0.098	ug/L		09/11/25 09:20	09/12/25 10:44	1
Acetochlor	<0.098		0.098	ug/L		09/11/25 09:20	09/12/25 10:44	1
Alachlor	<0.049		0.049	ug/L		09/11/25 09:20	09/12/25 10:44	1
alpha-BHC	<0.098		0.098	ug/L		09/11/25 09:20	09/12/25 10:44	1
alpha-Chlordane	<0.049		0.049	ug/L		09/11/25 09:20	09/12/25 10:44	1
Anthracene	<0.020		0.020	ug/L		09/11/25 09:20	09/12/25 10:44	1
Atrazine	<0.049		0.049	ug/L		09/11/25 09:20	09/12/25 10:44	1
Benz(a)anthracene	<0.049		0.049	ug/L		09/11/25 09:20	09/12/25 10:44	1
Benzo[a]pyrene	<0.020		0.020	ug/L		09/11/25 09:20	09/12/25 10:44	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		09/11/25 09:20	09/12/25 10:44	1
Benzo[g,h,i]perylene	<0.049		0.049	ug/L		09/11/25 09:20	09/12/25 10:44	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		09/11/25 09:20	09/12/25 10:44	1
beta-BHC	<0.098		0.098	ug/L		09/11/25 09:20	09/12/25 10:44	1
Bis(2-ethylhexyl) phthalate	<0.59		0.59	ug/L		09/11/25 09:20	09/12/25 10:44	1
Bromacil	<0.098		0.098	ug/L		09/11/25 09:20	09/12/25 10:44	1
Butachlor	<0.049		0.049	ug/L		09/11/25 09:20	09/12/25 10:44	1
Butylbenzylphthalate	<0.49		0.49	ug/L		09/11/25 09:20	09/12/25 10:44	1
Chlorobenzilate	<0.098		0.098	ug/L		09/11/25 09:20	09/12/25 10:44	1
Chloroneb	<0.098		0.098	ug/L		09/11/25 09:20	09/12/25 10:44	1
Chlorothalonil (Draconil, Bravo)	<0.098		0.098	ug/L		09/11/25 09:20	09/12/25 10:44	1
Chlorpyrifos	<0.049		0.049	ug/L		09/11/25 09:20	09/12/25 10:44	1
Chrysene	<0.020		0.020	ug/L		09/11/25 09:20	09/12/25 10:44	1
delta-BHC	<0.098		0.098	ug/L		09/11/25 09:20	09/12/25 10:44	1
Di(2-ethylhexyl)adipate	<0.59		0.59	ug/L		09/11/25 09:20	09/12/25 10:44	1
Dibenz(a,h)anthracene	<0.049		0.049	ug/L		09/11/25 09:20	09/12/25 10:44	1
Diclorvos (DDVP)	<0.049		0.049	ug/L		09/11/25 09:20	09/12/25 10:44	1
Dieldrin	<0.0098		0.0098	ug/L		09/11/25 09:20	09/12/25 10:44	1
Diethylphthalate	<0.49		0.49	ug/L		09/11/25 09:20	09/12/25 10:44	1
Dimethylphthalate	<0.49		0.49	ug/L		09/11/25 09:20	09/12/25 10:44	1
Di-n-butyl phthalate	<0.98		0.98	ug/L		09/11/25 09:20	09/12/25 10:44	1
Di-n-octyl phthalate	<0.098		0.098	ug/L		09/11/25 09:20	09/12/25 10:44	1
Endosulfan I (Alpha)	<0.098		0.098	ug/L		09/11/25 09:20	09/12/25 10:44	1
Endosulfan II (Beta)	<0.098		0.098	ug/L		09/11/25 09:20	09/12/25 10:44	1
Endosulfan sulfate	<0.098		0.098	ug/L		09/11/25 09:20	09/12/25 10:44	1
Endrin	<0.0098		0.0098	ug/L		09/11/25 09:20	09/12/25 10:44	1
Endrin aldehyde	<0.098		0.098	ug/L		09/11/25 09:20	09/12/25 10:44	1
EPTC	<0.098		0.098	ug/L		09/11/25 09:20	09/12/25 10:44	1

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QC Sample Results

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

Job ID: 380-170527-1
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump2

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

Lab Sample ID: MB 380-173515/20-A
Matrix: Water
Analysis Batch: 173627

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 173515

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Fluoranthene	<0.098		0.098	ug/L		09/11/25 09:20	09/12/25 10:44	1
Fluorene	<0.049		0.049	ug/L		09/11/25 09:20	09/12/25 10:44	1
gamma-Chlordane	<0.049		0.049	ug/L		09/11/25 09:20	09/12/25 10:44	1
Heptachlor	<0.0098		0.0098	ug/L		09/11/25 09:20	09/12/25 10:44	1
Heptachlor epoxide (isomer B)	<0.0098		0.0098	ug/L		09/11/25 09:20	09/12/25 10:44	1
Hexachlorobenzene	<0.049		0.049	ug/L		09/11/25 09:20	09/12/25 10:44	1
Hexachlorocyclopentadiene	<0.049		0.049	ug/L		09/11/25 09:20	09/12/25 10:44	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049	ug/L		09/11/25 09:20	09/12/25 10:44	1
Isophorone	<0.098		0.098	ug/L		09/11/25 09:20	09/12/25 10:44	1
Lindane	<0.0098		0.0098	ug/L		09/11/25 09:20	09/12/25 10:44	1
Malathion	<0.098		0.098	ug/L		09/11/25 09:20	09/12/25 10:44	1
Methoxychlor	<0.049		0.049	ug/L		09/11/25 09:20	09/12/25 10:44	1
Metolachlor	<0.049		0.049	ug/L		09/11/25 09:20	09/12/25 10:44	1
Molinate	<0.098		0.098	ug/L		09/11/25 09:20	09/12/25 10:44	1
Naphthalene	<0.098		0.098	ug/L		09/11/25 09:20	09/12/25 10:44	1
Parathion	<0.098		0.098	ug/L		09/11/25 09:20	09/12/25 10:44	1
Pendimethalin (Penoxaline)	<0.098		0.098	ug/L		09/11/25 09:20	09/12/25 10:44	1
Phenanthrene	<0.039		0.039	ug/L		09/11/25 09:20	09/12/25 10:44	1
Propachlor	<0.049		0.049	ug/L		09/11/25 09:20	09/12/25 10:44	1
Pyrene	<0.049		0.049	ug/L		09/11/25 09:20	09/12/25 10:44	1
Simazine	<0.049		0.049	ug/L		09/11/25 09:20	09/12/25 10:44	1
Terbacil	<0.098		0.098	ug/L		09/11/25 09:20	09/12/25 10:44	1
Terbutylazine	<0.098		0.098	ug/L		09/11/25 09:20	09/12/25 10:44	1
Thiobencarb	<0.098		0.098	ug/L		09/11/25 09:20	09/12/25 10:44	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		09/11/25 09:20	09/12/25 10:44	1
trans-Nonachlor	<0.049		0.049	ug/L		09/11/25 09:20	09/12/25 10:44	1
Trifluralin	<0.098		0.098	ug/L		09/11/25 09:20	09/12/25 10:44	1

Tentatively Identified Compound	MB	MB	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
	Est. Result	Qualifier							
Cyclopentene, 1,2,3,4,5-pentamethyl-	0.920	T J N	ug/L		2.52	1000154-28-6	09/11/25 09:20	09/12/25 10:44	1
Decane	1.96	T J N	ug/L		2.78	124-18-5	09/11/25 09:20	09/12/25 10:44	1
Phenol, 4-(1,1-dimethylpropyl)-	0.500	T J N	ug/L		4.25	80-46-6	09/11/25 09:20	09/12/25 10:44	1
9-Octadecenamide, (Z)-	1.81	T J N	ug/L		7.90	301-02-0	09/11/25 09:20	09/12/25 10:44	1
13-Docosenamide, (Z)-	0.556	T J N	ug/L		10.44	112-84-5	09/11/25 09:20	09/12/25 10:44	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2-Nitro-m-xylene	98		70 - 130	09/11/25 09:20	09/12/25 10:44	1
Perylene-d12	93		70 - 130	09/11/25 09:20	09/12/25 10:44	1
Triphenylphosphate	106		70 - 130	09/11/25 09:20	09/12/25 10:44	1

Lab Sample ID: LCS 380-173515/22-A
Matrix: Water
Analysis Batch: 173627

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 173515

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4'-DDD	1.95	1.99		ug/L		102	70 - 130

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QC Sample Results

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

Job ID: 380-170527-1
 SDG: Weekly: Aiea Gulch Wells Pump 1/Pump2

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

Lab Sample ID: LCS 380-173515/22-A

Matrix: Water

Analysis Batch: 173627

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 173515

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4'-DDE	1.95	2.16		ug/L		111	70 - 130
2,4'-DDT	1.95	1.99		ug/L		102	70 - 130
2,4-Dinitrotoluene	1.95	1.86		ug/L		95	70 - 130
2,6-Dinitrotoluene	1.95	1.88		ug/L		96	70 - 130
2-Methylnaphthalene	1.95	1.94		ug/L		100	70 - 130
4,4'-DDD	1.95	2.06		ug/L		106	70 - 130
4,4'-DDE	1.95	1.99		ug/L		102	70 - 130
4,4'-DDT	1.95	2.01		ug/L		103	70 - 130
Acenaphthene	1.95	1.99		ug/L		102	70 - 130
Acenaphthylene	1.95	1.83		ug/L		94	70 - 130
Acetochlor	1.95	2.09		ug/L		107	70 - 130
Alachlor	1.95	2.25		ug/L		115	70 - 130
alpha-BHC	1.95	2.05		ug/L		105	70 - 130
alpha-Chlordane	1.95	2.07		ug/L		106	70 - 130
Anthracene	1.95	1.95		ug/L		100	70 - 130
Atrazine	1.95	2.03		ug/L		104	70 - 130
Benz(a)anthracene	1.95	2.06		ug/L		105	70 - 130
Benzo[a]pyrene	1.95	1.97		ug/L		101	70 - 130
Benzo[b]fluoranthene	1.95	1.96		ug/L		101	70 - 130
Benzo[g,h,i]perylene	1.95	1.92		ug/L		99	70 - 130
Benzo[k]fluoranthene	1.95	1.89		ug/L		97	70 - 130
beta-BHC	1.95	2.16		ug/L		111	70 - 130
Bis(2-ethylhexyl) phthalate	1.95	2.02		ug/L		104	70 - 130
Bromacil	1.95	2.02		ug/L		104	70 - 130
Butachlor	1.95	2.07		ug/L		106	70 - 130
Butylbenzylphthalate	1.95	2.30		ug/L		118	70 - 130
Chlorobenzilate	1.95	2.14		ug/L		110	70 - 130
Chloroneb	1.95	2.06		ug/L		106	70 - 130
Chlorothalonil (Draconil, Bravo)	1.95	1.86		ug/L		95	70 - 130
Chlorpyrifos	1.95	2.08		ug/L		107	70 - 130
Chrysene	1.95	1.97		ug/L		101	70 - 130
delta-BHC	1.95	2.08		ug/L		107	70 - 130
Di(2-ethylhexyl)adipate	1.95	2.12		ug/L		109	70 - 130
Dibenz(a,h)anthracene	1.95	1.88		ug/L		96	70 - 130
Diclorvos (DDVP)	1.95	2.07		ug/L		106	70 - 130
Dieldrin	1.95	2.15		ug/L		110	70 - 130
Diethylphthalate	1.95	2.16		ug/L		111	70 - 130
Dimethylphthalate	1.95	2.09		ug/L		107	70 - 130
Di-n-butyl phthalate	3.90	4.49		ug/L		115	70 - 130
Di-n-octyl phthalate	1.95	1.80		ug/L		92	70 - 130
Endosulfan I (Alpha)	1.95	2.15		ug/L		110	70 - 130
Endosulfan II (Beta)	1.95	2.16		ug/L		111	70 - 130
Endosulfan sulfate	1.95	2.10		ug/L		108	70 - 130
Endrin	1.95	2.21		ug/L		113	70 - 130
Endrin aldehyde	1.95	1.95		ug/L		100	60 - 130
EPTC	1.95	2.10		ug/L		108	70 - 130
Fluoranthene	1.95	2.10		ug/L		108	70 - 130
Fluorene	1.95	2.10		ug/L		107	70 - 130
gamma-Chlordane	1.95	2.10		ug/L		108	70 - 130

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QC Sample Results

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

Job ID: 380-170527-1
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump2

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

Lab Sample ID: LCS 380-173515/22-A

Matrix: Water

Analysis Batch: 173627

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 173515

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Heptachlor	1.95	2.17		ug/L		111	70 - 130
Heptachlor epoxide (isomer B)	1.95	2.17		ug/L		111	70 - 130
Hexachlorobenzene	1.95	1.95		ug/L		100	70 - 130
Hexachlorocyclopentadiene	1.95	1.81		ug/L		93	70 - 130
Indeno[1,2,3-cd]pyrene	1.95	1.85		ug/L		95	70 - 130
Isophorone	1.95	2.02		ug/L		104	70 - 130
Lindane	1.95	2.18		ug/L		112	70 - 130
Malathion	1.95	2.03		ug/L		104	70 - 130
Methoxychlor	1.95	2.05		ug/L		105	70 - 130
Metolachlor	1.95	2.06		ug/L		106	70 - 130
Molinate	1.95	2.11		ug/L		108	70 - 130
Naphthalene	1.95	1.95		ug/L		100	70 - 130
Parathion	1.95	1.99		ug/L		102	70 - 130
Pendimethalin (Penoxaline)	1.95	1.91		ug/L		98	70 - 130
Phenanthrene	1.95	2.04		ug/L		105	70 - 130
Propachlor	1.95	2.17		ug/L		111	70 - 130
Pyrene	1.95	2.01		ug/L		103	70 - 130
Simazine	1.95	2.01		ug/L		103	70 - 130
Terbacil	1.95	2.09		ug/L		107	70 - 130
Terbutylazine	1.95	2.01		ug/L		103	70 - 130
Thiobencarb	1.95	2.04		ug/L		104	70 - 130
trans-Nonachlor	1.95	2.07		ug/L		106	70 - 130
Trifluralin	1.95	1.86		ug/L		95	70 - 130

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Nitro-m-xylene	96		70 - 130
Perylene-d12	91		70 - 130
Triphenylphosphate	105		70 - 130

Lab Sample ID: MRL 380-173515/21-A

Matrix: Water

Analysis Batch: 173627

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 173515

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	0.0966	0.101		ug/L		104	50 - 150
2,4'-DDD	0.0966	0.0960	J	ug/L		99	50 - 150
2,4'-DDE	0.0966	0.103		ug/L		107	50 - 150
2,4'-DDT	0.0966	0.107		ug/L		110	50 - 150
2,4-Dinitrotoluene	0.0966	0.107		ug/L		111	50 - 150
2,6-Dinitrotoluene	0.0966	0.119		ug/L		124	50 - 150
2-Methylnaphthalene	0.0966	0.0965	J	ug/L		100	50 - 150
4,4'-DDD	0.0966	0.112		ug/L		116	50 - 150
4,4'-DDE	0.0966	0.101		ug/L		104	50 - 150
4,4'-DDT	0.0966	0.111		ug/L		115	50 - 150
Acenaphthene	0.0966	0.0884	J	ug/L		92	50 - 150
Acenaphthylene	0.0966	0.0972		ug/L		101	50 - 150
Acetochlor	0.0966	0.112		ug/L		116	50 - 150
Alachlor	0.0483	0.0545		ug/L		113	50 - 150

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-170527-1
 SDG: Weekly: Aiea Gulch Wells Pump 1/Pump2

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

Lab Sample ID: MRL 380-173515/21-A

Matrix: Water

Analysis Batch: 173627

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 173515

Analyte	Spike	MRL	MRL	Unit	D	%Rec	%Rec Limits
	Added	Result	Qualifier				
alpha-BHC	0.0966	0.0989		ug/L		102	50 - 150
alpha-Chlordane	0.0242	0.0330	J	ug/L		137	50 - 150
Anthracene	0.0193	0.0238		ug/L		123	50 - 150
Atrazine	0.0483	0.0695		ug/L		144	50 - 150
Benz(a)anthracene	0.0483	0.0543		ug/L		112	50 - 150
Benzo[a]pyrene	0.0193	0.0188	J	ug/L		97	50 - 150
Benzo[b]fluoranthene	0.0193	0.0231		ug/L		120	50 - 150
Benzo[g,h,i]perylene	0.0483	0.0500		ug/L		104	50 - 150
Benzo[k]fluoranthene	0.0193	0.0227		ug/L		117	50 - 150
beta-BHC	0.0966	0.110		ug/L		114	50 - 150
Bis(2-ethylhexyl) phthalate	0.580	0.579	J	ug/L		100	50 - 150
Bromacil	0.0966	0.126		ug/L		131	50 - 150
Butachlor	0.0483	0.0668		ug/L		138	50 - 150
Butylbenzylphthalate	0.483	0.604		ug/L		125	50 - 150
Chlorobenzilate	0.0966	0.108		ug/L		112	50 - 150
Chloroneb	0.0966	0.0974		ug/L		101	50 - 150
Chlorothalonil (Draconil, Bravo)	0.0966	0.106		ug/L		109	50 - 150
Chlorpyrifos	0.0483	0.0586		ug/L		121	50 - 150
Chrysene	0.0193	0.0214		ug/L		111	50 - 150
delta-BHC	0.0966	0.0919	J	ug/L		95	50 - 150
Di(2-ethylhexyl)adipate	0.580	0.640		ug/L		110	50 - 150
Dibenz(a,h)anthracene	0.0483	0.0559		ug/L		116	50 - 150
Diclorvos (DDVP)	0.0483	0.0567		ug/L		117	50 - 150
Dieldrin	0.00966	0.0140		ug/L		145	50 - 150
Diethylphthalate	0.483	0.540		ug/L		112	50 - 150
Dimethylphthalate	0.483	0.517		ug/L		107	50 - 150
Di-n-butyl phthalate	0.483	0.624	J	ug/L		129	49 - 243
Di-n-octyl phthalate	0.0966	0.0980		ug/L		101	50 - 150
Endosulfan I (Alpha)	0.0966	0.0952	J	ug/L		99	50 - 150
Endosulfan II (Beta)	0.0966	0.104		ug/L		108	50 - 150
Endosulfan sulfate	0.0966	0.108		ug/L		111	50 - 150
Endrin	0.00966	0.0103		ug/L		107	50 - 150
Endrin aldehyde	0.0966	0.113		ug/L		117	50 - 150
EPTC	0.0966	0.0986		ug/L		102	50 - 150
Fluoranthene	0.0966	0.105		ug/L		108	50 - 150
Fluorene	0.0483	0.0520		ug/L		108	50 - 150
gamma-Chlordane	0.0242	0.0317	J	ug/L		131	50 - 150
Heptachlor	0.00966	0.0128		ug/L		133	50 - 150
Heptachlor epoxide (isomer B)	0.00966	0.0112		ug/L		115	50 - 150
Hexachlorobenzene	0.0483	0.0464	J	ug/L		96	50 - 150
Hexachlorocyclopentadiene	0.0483	0.0484		ug/L		100	50 - 150
Indeno[1,2,3-cd]pyrene	0.0483	0.0649		ug/L		134	50 - 150
Isophorone	0.0966	0.106		ug/L		110	50 - 150
Lindane	0.00966	0.0129		ug/L		133	50 - 150
Malathion	0.0966	0.109		ug/L		113	50 - 150
Methoxychlor	0.0483	0.0662		ug/L		137	50 - 150
Metolachlor	0.0483	0.0611		ug/L		127	50 - 150
Molinate	0.0966	0.106		ug/L		110	50 - 150
Naphthalene	0.0966	0.0988		ug/L		102	50 - 150

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-170527-1
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump2

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

Lab Sample ID: MRL 380-173515/21-A

Matrix: Water

Analysis Batch: 173627

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 173515

Analyte	Spike	MRL	MRL	Unit	D	%Rec	%Rec Limits
	Added	Result	Qualifier				
Parathion	0.0966	0.0952	J	ug/L		99	50 - 150
Pendimethalin (Penoxaline)	0.0966	0.0984		ug/L		102	50 - 150
Phenanthrene	0.0386	0.0426		ug/L		110	50 - 150
Propachlor	0.0483	0.0549		ug/L		114	50 - 150
Pyrene	0.0483	0.0524		ug/L		108	50 - 150
Simazine	0.0483	0.0638		ug/L		132	50 - 150
Terbacil	0.0966	0.123		ug/L		127	50 - 150
Terbutylazine	0.0966	0.113		ug/L		117	50 - 150
Thiobencarb	0.0966	0.104		ug/L		107	50 - 150
trans-Nonachlor	0.0242	0.0338	J	ug/L		140	50 - 150
Trifluralin	0.0966	0.101		ug/L		105	50 - 150

Surrogate	MRL	MRL	Limits
	%Recovery	Qualifier	
2-Nitro-m-xylene	98		70 - 130
Perylene-d12	87		70 - 130
Triphenylphosphate	103		70 - 130

Lab Sample ID: 380-170490-P-1-A MS

Matrix: Water

Analysis Batch: 173627

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 173515

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier	Added	Result	Qualifier				
1-Methylnaphthalene	<0.10		1.98	1.97		ug/L		99	70 - 130
2,4'-DDD	<0.10		1.98	1.93		ug/L		97	70 - 130
2,4'-DDE	<0.10		1.98	2.03		ug/L		103	70 - 130
2,4'-DDT	<0.10		1.98	1.77		ug/L		89	70 - 130
2,4-Dinitrotoluene	<0.10		1.98	2.08		ug/L		105	70 - 130
2,6-Dinitrotoluene	<0.10		1.98	2.04		ug/L		103	70 - 130
2-Methylnaphthalene	<0.10		1.98	2.00		ug/L		101	70 - 130
4,4'-DDD	<0.10		1.98	1.97		ug/L		100	70 - 130
4,4'-DDE	<0.10		1.98	1.77		ug/L		89	70 - 130
4,4'-DDT	<0.10		1.98	1.70		ug/L		86	70 - 130
Acenaphthene	<0.10		1.98	2.00		ug/L		101	70 - 130
Acenaphthylene	<0.10		1.98	1.94		ug/L		98	70 - 130
Acetochlor	<0.10		1.98	2.14		ug/L		108	70 - 130
Alachlor	<0.050		1.98	2.20		ug/L		111	70 - 130
alpha-BHC	<0.10		1.98	2.19		ug/L		111	70 - 130
alpha-Chlordane	<0.050		1.98	2.00		ug/L		101	70 - 130
Anthracene	<0.020	F1	1.98	1.04	F1	ug/L		53	70 - 130
Atrazine	<0.050		1.98	2.08		ug/L		105	70 - 130
Benz(a)anthracene	<0.050		1.98	1.68		ug/L		85	70 - 130
Benzo[a]pyrene	<0.020		1.98	1.64		ug/L		83	70 - 130
Benzo[b]fluoranthene	<0.020		1.98	2.03		ug/L		103	70 - 130
Benzo[g,h,i]perylene	<0.050		1.98	1.91		ug/L		97	70 - 130
Benzo[k]fluoranthene	<0.020		1.98	1.96		ug/L		99	70 - 130
beta-BHC	<0.10		1.98	2.15		ug/L		108	70 - 130
Bis(2-ethylhexyl) phthalate	<0.60		1.98	1.81		ug/L		91	70 - 130
Bromacil	<0.10		1.98	2.01		ug/L		102	70 - 130

QC Sample Results

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

Job ID: 380-170527-1
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump2

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

Lab Sample ID: 380-170490-P-1-A MS

Client Sample ID: Matrix Spike

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 173627

Prep Batch: 173515

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier	Added	Result	Qualifier				
Butachlor	<0.050		1.98	2.08		ug/L		105	70 - 130
Butylbenzylphthalate	<0.50		1.98	2.31		ug/L		117	70 - 130
Chlorobenzilate	<0.10		1.98	2.24		ug/L		113	70 - 130
Chloroneb	<0.10		1.98	2.13		ug/L		107	70 - 130
Chlorothalonil (Draconil, Bravo)	<0.10		1.98	2.01		ug/L		102	70 - 130
Chlorpyrifos	<0.050		1.98	1.96		ug/L		99	70 - 130
Chrysene	<0.020		1.98	1.99		ug/L		101	70 - 130
delta-BHC	<0.10		1.98	2.06		ug/L		104	70 - 130
Di(2-ethylhexyl)adipate	<0.60		1.98	1.77		ug/L		89	70 - 130
Dibenz(a,h)anthracene	<0.050		1.98	1.93		ug/L		98	70 - 130
Diclorvos (DDVP)	<0.050		1.98	2.23		ug/L		113	70 - 130
Dieldrin	<0.010		1.98	2.13		ug/L		108	70 - 130
Diethylphthalate	<0.50		1.98	2.20		ug/L		111	70 - 130
Dimethylphthalate	<0.50		1.98	2.17		ug/L		110	70 - 130
Di-n-butyl phthalate	<1.0		3.96	4.61		ug/L		117	70 - 130
Di-n-octyl phthalate	<0.10		1.98	1.65		ug/L		83	70 - 130
Endosulfan I (Alpha)	<0.10		1.98	2.07		ug/L		105	70 - 130
Endosulfan II (Beta)	<0.10		1.98	2.17		ug/L		109	70 - 130
Endosulfan sulfate	<0.10		1.98	1.97		ug/L		100	70 - 130
Endrin	<0.010		1.98	2.22		ug/L		112	70 - 130
Endrin aldehyde	<0.10		1.98	1.63		ug/L		82	60 - 130
EPTC	<0.10		1.98	2.16		ug/L		109	70 - 130
Fluoranthene	<0.10		1.98	2.10		ug/L		106	70 - 130
Fluorene	<0.050		1.98	2.17		ug/L		110	70 - 130
gamma-Chlordane	<0.050		1.98	1.99		ug/L		101	70 - 130
Heptachlor	<0.010		1.98	2.14		ug/L		108	70 - 130
Heptachlor epoxide (isomer B)	<0.010		1.98	2.16		ug/L		109	70 - 130
Hexachlorobenzene	<0.050		1.98	1.84		ug/L		93	70 - 130
Hexachlorocyclopentadiene	<0.050		1.98	2.07		ug/L		105	70 - 130
Indeno[1,2,3-cd]pyrene	<0.050		1.98	1.85		ug/L		93	70 - 130
Isophorone	<0.10		1.98	2.10		ug/L		106	70 - 130
Lindane	<0.010		1.98	2.22		ug/L		112	70 - 130
Malathion	<0.10		1.98	2.05		ug/L		103	70 - 130
Methoxychlor	<0.050		1.98	2.21		ug/L		112	70 - 130
Metolachlor	<0.050		1.98	2.11		ug/L		107	70 - 130
Molinate	<0.10		1.98	2.18		ug/L		110	70 - 130
Naphthalene	<0.10		1.98	2.00		ug/L		101	70 - 130
Parathion	<0.10		1.98	2.14		ug/L		108	70 - 130
Pendimethalin (Penoxaline)	<0.10		1.98	1.98		ug/L		100	70 - 130
Phenanthrene	<0.040		1.98	2.04		ug/L		103	70 - 130
Propachlor	<0.050		1.98	2.30		ug/L		116	70 - 130
Pyrene	<0.050		1.98	1.98		ug/L		100	70 - 130
Simazine	<0.050		1.98	2.12		ug/L		107	70 - 130
Terbacil	<0.10		1.98	2.18		ug/L		110	70 - 130
Terbuthylazine	<0.10		1.98	2.13		ug/L		107	70 - 130
Thiobencarb	<0.10		1.98	2.04		ug/L		103	70 - 130
trans-Nonachlor	<0.050		1.98	1.91		ug/L		97	70 - 130
Trifluralin	<0.10		1.98	1.95		ug/L		98	70 - 130

QC Sample Results

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

Job ID: 380-170527-1
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump2

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

Lab Sample ID: 380-170490-P-1-A MS
Matrix: Water
Analysis Batch: 173627

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 173515

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
2-Nitro-m-xylene	103		70 - 130
Perylene-d12	95		70 - 130
Triphenylphosphate	89		70 - 130

Lab Sample ID: 380-170493-I-1-A DU
Matrix: Water
Analysis Batch: 173627

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 173515

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
1-Methylnaphthalene	<0.097		<0.097		ug/L		NC	20
2,4'-DDD	<0.097		<0.097		ug/L		NC	20
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	<0.049		<0.049		ug/L		NC	20
alpha-BHC	<0.097		<0.097		ug/L		NC	20
alpha-Chlordane	<0.049		<0.049		ug/L		NC	20
Anthracene	<0.019		<0.019		ug/L		NC	20
Atrazine	<0.049		<0.049		ug/L		NC	20
Benz(a)anthracene	<0.049		<0.049		ug/L		NC	20
Benzo[a]pyrene	<0.019		<0.019		ug/L		NC	20
Benzo[b]fluoranthene	<0.019		<0.019		ug/L		NC	20
Benzo[g,h,i]perylene	<0.049		<0.049		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	<0.049		<0.049		ug/L		NC	20
Butylbenzylphthalate	<0.49		<0.49		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	<0.049		<0.049		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	<0.049		<0.049		ug/L		NC	20
Diclorvos (DDVP)	<0.049		<0.049		ug/L		NC	20
Dieldrin	0.030		0.0321		ug/L		7	20
Diethylphthalate	<0.49		<0.49		ug/L		NC	20

QC Sample Results

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

Job ID: 380-170527-1
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump2

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

Lab Sample ID: 380-170493-I-1-A DU

Matrix: Water

Analysis Batch: 173627

Client Sample ID: Duplicate

Prep Type: Total/NA

Prep Batch: 173515

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Dimethylphthalate	<0.49		<0.49		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	<0.049		<0.049		ug/L		NC	20
gamma-Chlordane	<0.049		<0.049		ug/L		NC	20
Heptachlor	<0.0097		<0.0097		ug/L		NC	20
Heptachlor epoxide (isomer B)	0.012		0.0125		ug/L		3	20
Hexachlorobenzene	<0.049		<0.049		ug/L		NC	20
Hexachlorocyclopentadiene	<0.049		<0.049		ug/L		NC	20
Indeno[1,2,3-cd]pyrene	<0.049		<0.049		ug/L		NC	20
Isophorone	<0.097		<0.097		ug/L		NC	20
Lindane	<0.0097		<0.0097		ug/L		NC	20
Malathion	<0.097		<0.097		ug/L		NC	20
Methoxychlor	<0.049		<0.049		ug/L		NC	20
Metolachlor	<0.049		<0.049		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	<0.049		<0.049		ug/L		NC	20
Pyrene	<0.049		<0.049		ug/L		NC	20
Simazine	<0.049		<0.049		ug/L		NC	20
Terbacil	<0.097		<0.097		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	<0.049		<0.049		ug/L		NC	20
Trifluralin	<0.097		<0.097		ug/L		NC	20

Surrogate	DU	DU	Limits
	%Recovery	Qualifier	
2-Nitro-m-xylene	100		70 - 130
Perylene-d12	90		70 - 130
Triphenylphosphate	103		70 - 130

QC Sample Results

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

Job ID: 380-170527-1
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump2

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

Lab Sample ID: MB 570-625449/1-A
Matrix: Water
Analysis Batch: 628768

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 625449

<i>Tentatively Identified Compound</i>	<i>Est. Result</i>	<i>Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>RT</i>	<i>CAS No.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>Tentatively Identified Compound</i>	<i>None</i>		<i>ug/L</i>			<i>N/A</i>	<i>09/15/25 04:33</i>	<i>09/22/25 08:34</i>	<i>1</i>

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>2,4,6-Tribromophenol (Surr)</i>	68		33 - 139	<i>09/15/25 04:33</i>	<i>09/22/25 08:34</i>	<i>1</i>
<i>2-Fluorobiphenyl (Surr)</i>	67		33 - 126	<i>09/15/25 04:33</i>	<i>09/22/25 08:34</i>	<i>1</i>
<i>2-Fluorophenol (Surr)</i>	49		12 - 120	<i>09/15/25 04:33</i>	<i>09/22/25 08:34</i>	<i>1</i>
<i>Nitrobenzene-d5 (Surr)</i>	70		36 - 120	<i>09/15/25 04:33</i>	<i>09/22/25 08:34</i>	<i>1</i>
<i>Phenol-d6 (Surr)</i>	28		10 - 120	<i>09/15/25 04:33</i>	<i>09/22/25 08:34</i>	<i>1</i>
<i>p-Terphenyl-d14 (Surr)</i>	73		47 - 131	<i>09/15/25 04:33</i>	<i>09/22/25 08:34</i>	<i>1</i>

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

Lab Sample ID: MB 570-625449/1-A
Matrix: Water
Analysis Batch: 626828

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 625449

<i>Analyte</i>	<i>Result</i>	<i>Qualifier</i>	<i>RL</i>	<i>Unit</i>	<i>D</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1-Methylnaphthalene	<0.20		0.20	ug/L		09/15/25 04:33	09/17/25 17:41	1
2-Methylnaphthalene	<0.20		0.20	ug/L		09/15/25 04:33	09/17/25 17:41	1
Acenaphthene	<0.20		0.20	ug/L		09/15/25 04:33	09/17/25 17:41	1
Acenaphthylene	<0.20		0.20	ug/L		09/15/25 04:33	09/17/25 17:41	1
Anthracene	<0.20		0.20	ug/L		09/15/25 04:33	09/17/25 17:41	1
Benzo[a]anthracene	<0.20		0.20	ug/L		09/15/25 04:33	09/17/25 17:41	1
Benzo[a]pyrene	<0.20		0.20	ug/L		09/15/25 04:33	09/17/25 17:41	1
Benzo[b]fluoranthene	<0.20		0.20	ug/L		09/15/25 04:33	09/17/25 17:41	1
Benzo[g,h,i]perylene	<0.20		0.20	ug/L		09/15/25 04:33	09/17/25 17:41	1
Benzo[k]fluoranthene	<0.20		0.20	ug/L		09/15/25 04:33	09/17/25 17:41	1
Chrysene	<0.20		0.20	ug/L		09/15/25 04:33	09/17/25 17:41	1
Dibenz(a,h)anthracene	<0.20		0.20	ug/L		09/15/25 04:33	09/17/25 17:41	1
Fluoranthene	<0.20		0.20	ug/L		09/15/25 04:33	09/17/25 17:41	1
Fluorene	<0.20		0.20	ug/L		09/15/25 04:33	09/17/25 17:41	1
Indeno[1,2,3-cd]pyrene	<0.20		0.20	ug/L		09/15/25 04:33	09/17/25 17:41	1
Naphthalene	<0.20		0.20	ug/L		09/15/25 04:33	09/17/25 17:41	1
Phenanthrene	<0.20		0.20	ug/L		09/15/25 04:33	09/17/25 17:41	1
Pyrene	<0.20		0.20	ug/L		09/15/25 04:33	09/17/25 17:41	1

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>2,4,6-Tribromophenol (Surr)</i>	75		28 - 127	<i>09/15/25 04:33</i>	<i>09/17/25 17:41</i>	<i>1</i>
<i>2-Fluorobiphenyl (Surr)</i>	69		31 - 120	<i>09/15/25 04:33</i>	<i>09/17/25 17:41</i>	<i>1</i>
<i>2-Fluorophenol (Surr)</i>	47		17 - 120	<i>09/15/25 04:33</i>	<i>09/17/25 17:41</i>	<i>1</i>
<i>Nitrobenzene-d5 (Surr)</i>	67		27 - 120	<i>09/15/25 04:33</i>	<i>09/17/25 17:41</i>	<i>1</i>
<i>Phenol-d6 (Surr)</i>	29		10 - 120	<i>09/15/25 04:33</i>	<i>09/17/25 17:41</i>	<i>1</i>
<i>p-Terphenyl-d14 (Surr)</i>	73		45 - 120	<i>09/15/25 04:33</i>	<i>09/17/25 17:41</i>	<i>1</i>

QC Sample Results

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

Job ID: 380-170527-1
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump2

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

Lab Sample ID: LCS 570-625449/2-A

Matrix: Water

Analysis Batch: 626828

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 625449

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
1-Methylnaphthalene	20.0	12.0		ug/L		60	47 - 120	
2-Methylnaphthalene	20.0	12.0		ug/L		60	43 - 120	
Acenaphthene	20.0	13.7		ug/L		69	60 - 132	
Acenaphthylene	20.0	14.0		ug/L		70	54 - 126	
Anthracene	20.0	14.2		ug/L		71	43 - 120	
Benzo[a]anthracene	20.0	14.0		ug/L		70	42 - 133	
Benzo[a]pyrene	20.0	14.7		ug/L		74	32 - 148	
Benzo[b]fluoranthene	20.0	13.9		ug/L		70	42 - 140	
Benzo[g,h,i]perylene	20.0	14.7		ug/L		73	1 - 195	
Benzo[k]fluoranthene	20.0	15.4		ug/L		77	25 - 146	
Chrysene	20.0	14.2		ug/L		71	44 - 140	
Dibenz(a,h)anthracene	20.0	14.5		ug/L		73	1 - 200	
Fluoranthene	20.0	14.1		ug/L		70	43 - 121	
Fluorene	20.0	14.2		ug/L		71	70 - 120	
Indeno[1,2,3-cd]pyrene	20.0	13.5		ug/L		67	1 - 151	
Naphthalene	20.0	11.7		ug/L		59	36 - 120	
Phenanthrene	20.0	13.5		ug/L		68	65 - 120	
Pyrene	20.0	14.0		ug/L		70	70 - 120	

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	66		28 - 127
2-Fluorobiphenyl (Surr)	66		31 - 120
2-Fluorophenol (Surr)	48		17 - 120
Nitrobenzene-d5 (Surr)	56		27 - 120
Phenol-d6 (Surr)	31		10 - 120
p-Terphenyl-d14 (Surr)	68		45 - 120

Lab Sample ID: LCSD 570-625449/3-A

Matrix: Water

Analysis Batch: 626828

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 625449

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits		RPD	
									RPD	Limit
1-Methylnaphthalene	20.0	14.3		ug/L		72	47 - 120	17	20	
2-Methylnaphthalene	20.0	14.1		ug/L		71	43 - 120	17	20	
Acenaphthene	20.0	16.8		ug/L		84	60 - 132	20	29	
Acenaphthylene	20.0	17.1		ug/L		85	54 - 126	20	45	
Anthracene	20.0	17.1		ug/L		85	43 - 120	19	40	
Benzo[a]anthracene	20.0	16.8		ug/L		84	42 - 133	18	32	
Benzo[a]pyrene	20.0	17.5		ug/L		87	32 - 148	17	43	
Benzo[b]fluoranthene	20.0	16.9		ug/L		85	42 - 140	20	43	
Benzo[g,h,i]perylene	20.0	17.6		ug/L		88	1 - 195	18	61	
Benzo[k]fluoranthene	20.0	17.6		ug/L		88	25 - 146	13	38	
Chrysene	20.0	17.2		ug/L		86	44 - 140	19	53	
Dibenz(a,h)anthracene	20.0	17.0		ug/L		85	1 - 200	16	75	
Fluoranthene	20.0	17.1		ug/L		86	43 - 121	20	40	
Fluorene	20.0	17.1		ug/L		86	70 - 120	19	23	
Indeno[1,2,3-cd]pyrene	20.0	16.0		ug/L		80	1 - 151	17	60	
Naphthalene	20.0	13.9		ug/L		69	36 - 120	16	39	

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QC Sample Results

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

Job ID: 380-170527-1
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump2

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

Lab Sample ID: LCSD 570-625449/3-A

Client Sample ID: Lab Control Sample Dup

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 626828

Prep Batch: 625449

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
Phenanthrene	20.0	16.4		ug/L		82	65 - 120	20	24	
Pyrene	20.0	17.1		ug/L		85	70 - 120	20	30	

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	78		28 - 127
2-Fluorobiphenyl (Surr)	79		31 - 120
2-Fluorophenol (Surr)	57		17 - 120
Nitrobenzene-d5 (Surr)	66		27 - 120
Phenol-d6 (Surr)	37		10 - 120
p-Terphenyl-d14 (Surr)	77		45 - 120

Lab Sample ID: 380-170493-A-1-A MS

Client Sample ID: Matrix Spike

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 626828

Prep Batch: 625449

Analyte	Sample Result	Sample Qualifier	Spike Added	MS		Unit	D	%Rec	%Rec	
				Result	Qualifier				Limits	RPD
1-Methylnaphthalene	<0.19		19.3	13.7		ug/L		71	36 - 120	
2-Methylnaphthalene	<0.19		19.3	13.5		ug/L		70	32 - 124	
Acenaphthene	<0.19		19.3	16.1		ug/L		83	47 - 145	
Acenaphthylene	<0.19		19.3	16.3		ug/L		85	33 - 145	
Anthracene	<0.19		19.3	16.8		ug/L		87	27 - 133	
Benzo[a]anthracene	<0.19		19.3	16.5		ug/L		86	33 - 143	
Benzo[a]pyrene	<0.19		19.3	17.2		ug/L		89	17 - 163	
Benzo[b]fluoranthene	<0.19		19.3	16.7		ug/L		86	24 - 159	
Benzo[g,h,i]perylene	<0.19		19.3	17.0		ug/L		88	1 - 219	
Benzo[k]fluoranthene	<0.19		19.3	17.3		ug/L		89	11 - 162	
Chrysene	<0.19		19.3	16.8		ug/L		87	17 - 168	
Dibenz(a,h)anthracene	<0.19		19.3	16.9		ug/L		87	1 - 227	
Fluoranthene	<0.19		19.3	17.0		ug/L		88	26 - 137	
Fluorene	<0.19		19.3	16.6		ug/L		86	59 - 121	
Indeno[1,2,3-cd]pyrene	<0.19		19.3	15.4		ug/L		80	1 - 171	
Naphthalene	<0.19		19.3	12.9		ug/L		67	21 - 133	
Phenanthrene	<0.19		19.3	16.2		ug/L		84	54 - 120	
Pyrene	<0.19		19.3	16.6		ug/L		86	52 - 120	

Surrogate	MS		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	80		28 - 127
2-Fluorobiphenyl (Surr)	78		31 - 120
2-Fluorophenol (Surr)	55		17 - 120
Nitrobenzene-d5 (Surr)	64		27 - 120
Phenol-d6 (Surr)	35		10 - 120
p-Terphenyl-d14 (Surr)	78		45 - 120

QC Sample Results

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

Job ID: 380-170527-1
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump2

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

Lab Sample ID: 380-170493-A-1-B MSD

Client Sample ID: Matrix Spike Duplicate

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 626828

Prep Batch: 625449

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
1-Methylnaphthalene	<0.19		19.4	12.9		ug/L		67	36 - 120	6	30
2-Methylnaphthalene	<0.19		19.4	12.8		ug/L		66	32 - 124	5	30
Acenaphthene	<0.19		19.4	14.9		ug/L		77	47 - 145	8	48
Acenaphthylene	<0.19		19.4	15.1		ug/L		78	33 - 145	8	74
Anthracene	<0.19		19.4	14.9		ug/L		77	27 - 133	12	66
Benzo[a]anthracene	<0.19		19.4	14.6		ug/L		76	33 - 143	12	53
Benzo[a]pyrene	<0.19		19.4	15.1		ug/L		78	17 - 163	13	72
Benzo[b]fluoranthene	<0.19		19.4	14.5		ug/L		75	24 - 159	14	71
Benzo[g,h,i]perylene	<0.19		19.4	15.1		ug/L		78	1 - 219	12	97
Benzo[k]fluoranthene	<0.19		19.4	15.4		ug/L		79	11 - 162	12	63
Chrysene	<0.19		19.4	14.7		ug/L		76	17 - 168	13	87
Dibenz(a,h)anthracene	<0.19		19.4	15.1		ug/L		78	1 - 227	11	126
Fluoranthene	<0.19		19.4	14.8		ug/L		77	26 - 137	14	66
Fluorene	<0.19		19.4	15.0		ug/L		78	59 - 121	10	38
Indeno[1,2,3-cd]pyrene	<0.19		19.4	13.7		ug/L		71	1 - 171	12	99
Naphthalene	<0.19		19.4	12.5		ug/L		65	21 - 133	3	65
Phenanthrene	<0.19		19.4	14.4		ug/L		74	54 - 120	12	39
Pyrene	<0.19		19.4	14.8		ug/L		76	52 - 120	12	49

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	71		28 - 127
2-Fluorobiphenyl (Surr)	73		31 - 120
2-Fluorophenol (Surr)	52		17 - 120
Nitrobenzene-d5 (Surr)	61		27 - 120
Phenol-d6 (Surr)	33		10 - 120
p-Terphenyl-d14 (Surr)	71		45 - 120

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

Lab Sample ID: 380-170493-B-1 MS

Client Sample ID: Matrix Spike

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 625194

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Gasoline Range Organics (C4-C13)	<10		400	390		ug/L		97	68 - 122		

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

Lab Sample ID: 380-170493-B-1 MSD

Client Sample ID: Matrix Spike Duplicate

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 625194

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Gasoline Range Organics (C4-C13)	<10		400	383		ug/L		96	68 - 122	2	18

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-170527-1
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump2

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

Lab Sample ID: 380-170493-B-1 MSD
Matrix: Water
Analysis Batch: 625194

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

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	98		38 - 134

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

Lab Sample ID: MB 570-625548/1-A
Matrix: Water
Analysis Batch: 626815

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 625548

Analyte	MB MB		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Diesel Range Organics (C10-C24)	<25		25	ug/L		09/15/25 09:14	09/17/25 12:37	1
Motor Oil Range Organics [C24-C36]	<25		25	ug/L		09/15/25 09:14	09/17/25 12:37	1
C8-C18	<25		25	ug/L		09/15/25 09:14	09/17/25 12:37	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
n-Octacosane (Surr)	96		60 - 130	09/15/25 09:14	09/17/25 12:37	1

Lab Sample ID: LCS 570-625548/2-A
Matrix: Water
Analysis Batch: 626815

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 625548

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
C10-C28	1600	1500		ug/L		94	56 - 127

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
n-Octacosane (Surr)	104		60 - 130

Lab Sample ID: LCSD 570-625548/3-A
Matrix: Water
Analysis Batch: 626815

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 625548

Analyte	Spike Added	LCSD LCSD		Unit	D	%Rec	%Rec Limits	RPD	
		Result	Qualifier					RPD	Limit
C10-C28	1600	1540		ug/L		96	56 - 127	2	23

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
n-Octacosane (Surr)	97		60 - 130

Lab Sample ID: MRL 570-625548/4-A
Matrix: Water
Analysis Batch: 626815

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 625548

Analyte	Spike Added	MRL MRL		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
C10-C28	0.0200	0.0351	^3+	mg/L		175	50 - 150

Surrogate	MRL MRL		Limits
	%Recovery	Qualifier	
n-Octacosane (Surr)	93		60 - 130

QC Association Summary

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

Job ID: 380-170527-1
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump2

GC/MS Semi VOA

Prep Batch: 173515

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-170527-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	525.2	
380-170527-2	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	525.2	
MB 380-173515/20-A	Method Blank	Total/NA	Water	525.2	
LCS 380-173515/22-A	Lab Control Sample	Total/NA	Water	525.2	
MRL 380-173515/21-A	Lab Control Sample	Total/NA	Water	525.2	
380-170490-P-1-A MS	Matrix Spike	Total/NA	Water	525.2	
380-170493-I-1-A DU	Duplicate	Total/NA	Water	525.2	

Analysis Batch: 173627

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-170527-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	525.2	173515
380-170527-2	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	525.2	173515
MB 380-173515/20-A	Method Blank	Total/NA	Water	525.2	173515
LCS 380-173515/22-A	Lab Control Sample	Total/NA	Water	525.2	173515
MRL 380-173515/21-A	Lab Control Sample	Total/NA	Water	525.2	173515
380-170490-P-1-A MS	Matrix Spike	Total/NA	Water	525.2	173515
380-170493-I-1-A DU	Duplicate	Total/NA	Water	525.2	173515

Prep Batch: 625449

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-170527-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	625.1	
380-170527-2	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	625.1	
MB 570-625449/1-A	Method Blank	Total/NA	Water	625.1	
LCS 570-625449/2-A	Lab Control Sample	Total/NA	Water	625.1	
LCSD 570-625449/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	
380-170493-A-1-A MS	Matrix Spike	Total/NA	Water	625.1	
380-170493-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	625.1	

Analysis Batch: 626828

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-170527-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	625.1 SIM	625449
380-170527-2	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	625.1 SIM	625449
MB 570-625449/1-A	Method Blank	Total/NA	Water	625.1 SIM	625449
LCS 570-625449/2-A	Lab Control Sample	Total/NA	Water	625.1 SIM	625449
LCSD 570-625449/3-A	Lab Control Sample Dup	Total/NA	Water	625.1 SIM	625449
380-170493-A-1-A MS	Matrix Spike	Total/NA	Water	625.1 SIM	625449
380-170493-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	625.1 SIM	625449

Analysis Batch: 628768

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-170527-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	625.1	625449
380-170527-2	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	625.1	625449
MB 570-625449/1-A	Method Blank	Total/NA	Water	625.1	625449

GC VOA

Analysis Batch: 625194

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-170527-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	8015B GRO LL	
380-170527-2	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	8015B GRO LL	
380-170527-3	TB: AIEA GULCH WELLS PUMP 1	Total/NA	Water	8015B GRO LL	

QC Association Summary

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

Job ID: 380-170527-1
 SDG: Weekly: Aiea Gulch Wells Pump 1/Pump2

GC VOA (Continued)

Analysis Batch: 625194 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-170527-4	TB: AIEA GULCH WELLS PUMP 2	Total/NA	Water	8015B GRO LL	
380-170493-B-1 MS	Matrix Spike	Total/NA	Water	8015B GRO LL	
380-170493-B-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8015B GRO LL	

GC Semi VOA

Prep Batch: 625548

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-170527-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	3510C	
380-170527-2	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	3510C	
MB 570-625548/1-A	Method Blank	Total/NA	Water	3510C	
LCS 570-625548/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 570-625548/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MRL 570-625548/4-A	Lab Control Sample	Total/NA	Water	3510C	
380-170493-C-1-A MS	Matrix Spike	Total/NA	Water	3510C	
380-170493-C-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	3510C	

Analysis Batch: 626815

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-170527-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	8015B	625548
380-170527-2	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	8015B	625548
MB 570-625548/1-A	Method Blank	Total/NA	Water	8015B	625548
LCS 570-625548/2-A	Lab Control Sample	Total/NA	Water	8015B	625548
LCSD 570-625548/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	625548
MRL 570-625548/4-A	Lab Control Sample	Total/NA	Water	8015B	625548
380-170493-C-1-A MS	Matrix Spike	Total/NA	Water	8015B	625548
380-170493-C-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	8015B	625548

Lab Chronicle

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

Job ID: 380-170527-1
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump2

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

Lab Sample ID: 380-170527-1

Date Collected: 09/08/25 10:52

Matrix: Drinking Water

Date Received: 09/10/25 09:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			173515	KRD3	EA POM	09/11/25 09:20
Total/NA	Analysis	525.2		1	173627	Q8LA	EA POM	09/12/25 13:45
Total/NA	Prep	625.1			625449	H1SH	EET CAL 4	09/15/25 04:33
Total/NA	Analysis	625.1		1	628768	PQS1	EET CAL 4	09/22/25 12:15
Total/NA	Prep	625.1			625449	H1SH	EET CAL 4	09/15/25 04:33
Total/NA	Analysis	625.1 SIM		1	626828	PQS1	EET CAL 4	09/17/25 20:58
Total/NA	Analysis	8015B GRO LL		1	625194	W4LC	EET CAL 4	09/13/25 20:42
Total/NA	Prep	3510C			625548	TVD6	EET CAL 4	09/15/25 09:17
Total/NA	Analysis	8015B		1	626815	NR	EET CAL 4	09/17/25 15:52

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

Lab Sample ID: 380-170527-2

Date Collected: 09/08/25 11:11

Matrix: Drinking Water

Date Received: 09/10/25 09:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			173515	KRD3	EA POM	09/11/25 09:20
Total/NA	Analysis	525.2		1	173627	Q8LA	EA POM	09/12/25 14:06
Total/NA	Prep	625.1			625449	H1SH	EET CAL 4	09/15/25 04:33
Total/NA	Analysis	625.1		1	628768	PQS1	EET CAL 4	09/22/25 13:03
Total/NA	Prep	625.1			625449	H1SH	EET CAL 4	09/15/25 04:33
Total/NA	Analysis	625.1 SIM		1	626828	PQS1	EET CAL 4	09/17/25 21:20
Total/NA	Analysis	8015B GRO LL		1	625194	W4LC	EET CAL 4	09/13/25 21:02
Total/NA	Prep	3510C			625548	TVD6	EET CAL 4	09/15/25 09:17
Total/NA	Analysis	8015B		1	626815	NR	EET CAL 4	09/17/25 16:13

Client Sample ID: TB: AIEA GULCH WELLS PUMP 1

Lab Sample ID: 380-170527-3

Date Collected: 09/08/25 10:52

Matrix: Water

Date Received: 09/10/25 09:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015B GRO LL		1	625194	W4LC	EET CAL 4	09/14/25 00:02

Client Sample ID: TB: AIEA GULCH WELLS PUMP 2

Lab Sample ID: 380-170527-4

Date Collected: 09/08/25 11:11

Matrix: Water

Date Received: 09/10/25 09:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015B GRO LL		1	625194	W4LC	EET CAL 4	09/14/25 00:22

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

Eurofins Eaton Analytical Pomona

Accreditation/Certification Summary

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

Job ID: 380-170527-1
 SDG: Weekly: Aiea Gulch Wells Pump 1/Pump2

Laboratory: Eurofins Eaton Analytical Pomona

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

Authority	Program	Identification Number	Expiration Date
Hawaii	State	CA00006	01-31-26

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

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

Laboratory: Eurofins Calscience

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

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	7296.01	11-30-26
A2LA	ISO/IEC 17025	7296.01	11-30-26
Alaska (UST)	State	25-005	03-02-26
Arizona	State	AZ0830	11-16-25
California	Los Angeles County Sanitation Districts	9257304	07-31-26
California	SCAQMD LAP	17LA0919	11-30-25

Eurofins Eaton Analytical Pomona

Accreditation/Certification Summary

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

Job ID: 380-170527-1
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump2

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
California	State	3082	07-31-26
Kansas	NELAP	E-10420	07-31-26
Nevada	State	CA00111	07-31-26
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

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Method Summary

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

Job ID: 380-170527-1
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump2

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: 380-170527-1
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	PWSID Number
380-170527-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Drinking Water	09/08/25 10:52	09/10/25 09:35	HI0000331
380-170527-2	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Drinking Water	09/08/25 11:11	09/10/25 09:35	HI0000331
380-170527-3	TB: AIEA GULCH WELLS PUMP 1	Water	09/08/25 10:52	09/10/25 09:35	
380-170527-4	TB: AIEA GULCH WELLS PUMP 2	Water	09/08/25 11:11	09/10/25 09:35	

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Chain of Custody Record



Environment Testing

Client Information		Lab PM: Lopez, Maria		Carrier Tracking No(s): 380-28005-2757 1	
Client Contact: Mr Kirk Iwamoto		Phone: +1 808 748 5840		Page: Page 1 of 1	
Company: City & County of Honolulu		E-Mail: Maria.Lopez@et.eurofins.com		Job #:	
Address: 630 South Beretania Street Chemistry Lab		Due Date Requested: TAT Requested (days):		Preservation Codes: R - NaThioSO4 RA - NaThioHCl Q - Na2SO3 QA - Na2SO3/HCl Y - Trizma I - NH4 Acetate	
City: Honolulu		Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Other:	
State, Zip: HI, 96843		PO #: C20525101 exp 05312023		Total Number of Containers:	
Phone: 808-748-5840 (Tel)		WVO #:		Special Instructions/Note:	
Email: kiwamoto@hbws.org		Project #: 38001111		380-170527 COC	
Project Name: RED-HILL/HBWS Sites Event Desc: RUSH Weekly Red Hill		SSOW#:		QR Code	
Site: Hawaii		Sample Date		Sample Time	
Sample Identification		Sample Date		Sample Time	
Aiea Gulch Wells Pump 1		8-Sep-2025		1052	
Aiea Gulch Wells Pump 1 (Matrix Spike)					
Aiea Gulch Wells Pump 1 (Matrix Spike Duplicate)					
TB: Aiea Gulch Wells Pump 1		8-Sep-2025		1052	
Aiea Gulch Wells Pump 2		8-Sep-2025		1111	
Aiea Gulch Wells Pump 2 (Matrix Spike)					
Aiea Gulch Wells Pump 2 (Matrix Spike Duplicate)					
TB: Aiea Gulch Wells Pump 2		8-Sep-2025		1111	
Possible Hazard Identification		Date:		Time:	
<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)		Special Instructions/QC Requirements: FEDEX 8842 4078 6546	
Empty Kit Relinquished by:		Date/Time: 09 Sept 2025 1400		Method of Shipment: 8842 4078 6546	
Relinquished by:		Date/Time:		Received by: [Signature]	
Relinquished by:		Date/Time:		Received by: [Signature]	
Custody Seals Intact: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Custody Seal No.:		Color Temperature(s) °C and Other Remarks: FSTA 2.7-0.0 = 1.1 (2) 2.7-0.0 = 2.7 FSTA	



Eurofins Eaton Analytical Pomona

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

Chain of Custody Record



eurofins Enviro

Loc: 380
170527

Client Information (Sub Contract Lab)		Sampler: N/A		Lab PM: Lopez, Maria		Carrier Tracking No(s): N/A		COC No: 380-250953.1																	
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				Accreditations Required (See note): State - Hawaii				Job #: 380-170527-1																	
Address: 2841 Dow Avenue, Suite 100		Due Date Requested: 9/23/2025		Analysis Requested						Preservation Codes:															
City: Tustin		TAT Requested (days): N/A																							
State, Zip: CA, 92780		PO #: N/A		Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/>		Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/>		8018B_GRO_LL_CS3510C_LLHNL Ranges: C10-C24C24-C36/C8-C18		625.1_SiM625_Prep(MOD) Extended PAH List		626.1/626_Prep(MOD) Tentatively Identified Compounds (Hold)		8018B_GRO_LL/6030C(MOD) GRO		Total Number of Containers		Other: N/A							
Phone: 714-895-5494(Tel)		WO #: N/A																							
Email: N/A		Project #: 38001111		Sample Type (C=Comp, G=grab)		Matrix (Water, Sediment, Organic/Soil, BT-Tissue, A-Air)		Special Instructions/Note:																	
Project Name: RED-HILL		SSOW#: N/A		Sample Date		Sample Time		Preservation Code:																	
Site: Honolulu BWS Sites																									
Sample Identification - Client ID (Lab ID)		Sample Date		Sample Time		Sample Type		Matrix		Field Filtered Sample		Perform MS/MSD		8018B_GRO_LL_CS3510C_LLHNL Ranges		625.1_SiM625_Prep(MOD) Extended PAH List		626.1/626_Prep(MOD) Tentatively Identified Compounds (Hold)		8018B_GRO_LL/6030C(MOD) GRO		Total Number of Containers		Other	
AIEA GULCH WELLS PUMP 1 (331-201-TP071) (380-170527-1)		9/8/25		10:52 Hawaiian		G Water		Water		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		X X X X						X		7		MRLs are needed. Confirm any hits >RL.	
AIEA GULCH WELLS PUMP 2 (331-202-TP072) (380-170527-2)		9/8/25		11:11 Hawaiian		G Water		Water		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		X X X X						X		7		MRLs are needed. Confirm any hits >RL.	
TB: AIEA GULCH WELLS PUMP 1 (380-170527-3)		9/8/25		10:52 Hawaiian		G Water		Water		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		X						X		2		MRLs are needed.	
TB: AIEA GULCH WELLS PUMP 2 (380-170527-4)		9/8/25		11:11 Hawaiian		G Water		Water		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		X						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)		Special Instructions/QC Requirements:	

Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:	
Relinquished by: <i>[Signature]</i>		Date/Time: 9/11/25 11:15		Company: <i>[Signature]</i>		Received by: <i>[Signature]</i>	
Relinquished by:		Date/Time:		Company:		Received by:	
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: 1.2/1.2 IR92			

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Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-170527-1

SDG Number: Weekly: Aiea Gulch Wells Pump 1/Pump2

Login Number: 170527

List Number: 1

Creator: Hernandez, Orlando

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



Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-170527-1

SDG Number: Weekly: Aiea Gulch Wells Pump 1/Pump2

Login Number: 170527

List Number: 2

Creator: Khana, Piyush

List Source: Eurofins Calscience

List Creation: 09/11/25 12:27 PM

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.2
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	