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ANALYTICAL REPORT

PREPARED FOR

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City & County of Honolulu
630 South Beretania Street
Public Service Bldg. Room 310
Honolulu, Hawaii 96843

Generated 11/24/2025 11:04:11 AM

JOB DESCRIPTION

RED-HILL
Weekly: Aiea Gulch Wells Pump 1/Pump 2

JOB NUMBER

380-179746-1

Eurofins Eaton Analytical Pomona
941 Corporate Center Drive
Pomona CA 91768-2642

See page two for job notes and contact information.

Eurofins Eaton Analytical Pomona

Job Notes

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

Compliance Statement

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

Authorization

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11/24/2025 11:04:11 AM

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Table of Contents

Definitions/Glossary

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

Job ID: 380-179746-1
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

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.
S1-	Surrogate recovery exceeds control limits, low biased.

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

Job Narrative
380-179746-1

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 10/29/2025 10:05 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 2.4°C and 3.6°C.

GC/MS Semi VOA
Method 525.2_PREC: The matrix spike (MS) recovery for preparation batch 380-184801 and analytical batch 380-185066 were below control limits for Anthracene and Benzo[a]pyrene . Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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 570-649949 and analytical batch 570-654466 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.
Method: 8015B_DRO_LL_CS

Method 8015B_DRO_LL_CS: An incorrect volume of spiking solution was inadvertently added to the laboratory control sample (LCS), laboratory control sample duplicate (LCSD), matrix spike (MS), and matrix spike duplicate (MSD) associated with preparation batch 570-649949 and analytical batch 570-654466. Percent recoveries are based on the amount spiked.
Method: 8015B_DRO_LL_CS

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: 380-179746-1
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

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

Lab Sample ID: 380-179746-1

No Detections.

Client Sample ID: TB: AIEA GULCH WELLS PUMP 1

Lab Sample ID: 380-179746-2

No Detections.

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

Lab Sample ID: 380-179746-3

No Detections.

Client Sample ID: TB: AIEA GULCH WELLS PUMP 2

Lab Sample ID: 380-179746-4

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample Results

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

Job ID: 380-179746-1
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

Client Sample ID: AIEA GULCH WELLS PUMP 1 (331-201-TP071)
Date Collected: 10/27/25 11:09
Date Received: 10/29/25 10:05

Lab Sample ID: 380-179746-1
Matrix: Water
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		11/06/25 09:59	11/07/25 14:18	1
2,4'-DDD	<0.098		0.098		ug/L		11/06/25 09:59	11/07/25 14:18	1
2,4'-DDE	<0.098		0.098		ug/L		11/06/25 09:59	11/07/25 14:18	1
2,4'-DDT	<0.098		0.098		ug/L		11/06/25 09:59	11/07/25 14:18	1
2,4-Dinitrotoluene	<0.098		0.098		ug/L		11/06/25 09:59	11/07/25 14:18	1
2,6-Dinitrotoluene	<0.098		0.098		ug/L		11/06/25 09:59	11/07/25 14:18	1
2-Methylnaphthalene	<0.098		0.098		ug/L		11/06/25 09:59	11/07/25 14:18	1
4,4'-DDD	<0.098		0.098		ug/L		11/06/25 09:59	11/07/25 14:18	1
4,4'-DDE	<0.098		0.098		ug/L		11/06/25 09:59	11/07/25 14:18	1
4,4'-DDT	<0.098		0.098		ug/L		11/06/25 09:59	11/07/25 14:18	1
Acenaphthene	<0.098		0.098		ug/L		11/06/25 09:59	11/07/25 14:18	1
Acenaphthylene	<0.098		0.098		ug/L		11/06/25 09:59	11/07/25 14:18	1
Acetochlor	<0.098		0.098		ug/L		11/06/25 09:59	11/07/25 14:18	1
Alachlor	<0.049		0.049		ug/L		11/06/25 09:59	11/07/25 14:18	1
alpha-BHC	<0.098		0.098		ug/L		11/06/25 09:59	11/07/25 14:18	1
alpha-Chlordane	<0.049		0.049		ug/L		11/06/25 09:59	11/07/25 14:18	1
Anthracene	<0.020	F1	0.020		ug/L		11/06/25 09:59	11/07/25 14:18	1
Atrazine	<0.049		0.049		ug/L		11/06/25 09:59	11/07/25 14:18	1
Benz(a)anthracene	<0.049		0.049		ug/L		11/06/25 09:59	11/07/25 14:18	1
Benzo[a]pyrene	<0.020	F1	0.020		ug/L		11/06/25 09:59	11/07/25 14:18	1
Benzo[b]fluoranthene	<0.020		0.020		ug/L		11/06/25 09:59	11/07/25 14:18	1
Benzo[g,h,i]perylene	<0.049		0.049		ug/L		11/06/25 09:59	11/07/25 14:18	1
Benzo[k]fluoranthene	<0.020		0.020		ug/L		11/06/25 09:59	11/07/25 14:18	1
beta-BHC	<0.098		0.098		ug/L		11/06/25 09:59	11/07/25 14:18	1
Bis(2-ethylhexyl) phthalate	<0.59		0.59		ug/L		11/06/25 09:59	11/07/25 14:18	1
Bromacil	<0.098		0.098		ug/L		11/06/25 09:59	11/07/25 14:18	1
Butachlor	<0.049		0.049		ug/L		11/06/25 09:59	11/07/25 14:18	1
Butylbenzylphthalate	<0.49		0.49		ug/L		11/06/25 09:59	11/07/25 14:18	1
Chlorobenzilate	<0.098		0.098		ug/L		11/06/25 09:59	11/07/25 14:18	1
Chloroneb	<0.098		0.098		ug/L		11/06/25 09:59	11/07/25 14:18	1
Chlorothalonil (Draconil, Bravo)	<0.098		0.098		ug/L		11/06/25 09:59	11/07/25 14:18	1
Chlorpyrifos	<0.049		0.049		ug/L		11/06/25 09:59	11/07/25 14:18	1
Chrysene	<0.020		0.020		ug/L		11/06/25 09:59	11/07/25 14:18	1
delta-BHC	<0.098		0.098		ug/L		11/06/25 09:59	11/07/25 14:18	1
Di(2-ethylhexyl)adipate	<0.59		0.59		ug/L		11/06/25 09:59	11/07/25 14:18	1
Dibenz(a,h)anthracene	<0.049		0.049		ug/L		11/06/25 09:59	11/07/25 14:18	1
Diclorvos (DDVP)	<0.049		0.049		ug/L		11/06/25 09:59	11/07/25 14:18	1
Dieldrin	<0.0098		0.0098		ug/L		11/06/25 09:59	11/07/25 14:18	1
Diethylphthalate	<0.49		0.49		ug/L		11/06/25 09:59	11/07/25 14:18	1
Dimethylphthalate	<0.49		0.49		ug/L		11/06/25 09:59	11/07/25 14:18	1
Di-n-butyl phthalate	<0.98		0.98		ug/L		11/06/25 09:59	11/07/25 14:18	1
Di-n-octyl phthalate	<0.098		0.098		ug/L		11/06/25 09:59	11/07/25 14:18	1
Endosulfan I (Alpha)	<0.098		0.098		ug/L		11/06/25 09:59	11/07/25 14:18	1
Endosulfan II (Beta)	<0.098		0.098		ug/L		11/06/25 09:59	11/07/25 14:18	1
Endosulfan sulfate	<0.098		0.098		ug/L		11/06/25 09:59	11/07/25 14:18	1
Endrin	<0.0098		0.0098		ug/L		11/06/25 09:59	11/07/25 14:18	1
Endrin aldehyde	<0.098		0.098		ug/L		11/06/25 09:59	11/07/25 14:18	1
EPTC	<0.098		0.098		ug/L		11/06/25 09:59	11/07/25 14:18	1

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

Lab Sample ID: 380-179746-1

Date Collected: 10/27/25 11:09
Date Received: 10/29/25 10:05

Matrix: Water
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		11/06/25 09:59	11/07/25 14:18	1
Fluorene	<0.049		0.049		ug/L		11/06/25 09:59	11/07/25 14:18	1
gamma-Chlordane	<0.049		0.049		ug/L		11/06/25 09:59	11/07/25 14:18	1
Heptachlor	<0.0098		0.0098		ug/L		11/06/25 09:59	11/07/25 14:18	1
Heptachlor epoxide (isomer B)	<0.0098		0.0098		ug/L		11/06/25 09:59	11/07/25 14:18	1
Hexachlorobenzene	<0.049		0.049		ug/L		11/06/25 09:59	11/07/25 14:18	1
Hexachlorocyclopentadiene	<0.049		0.049		ug/L		11/06/25 09:59	11/07/25 14:18	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049		ug/L		11/06/25 09:59	11/07/25 14:18	1
Isophorone	<0.098		0.098		ug/L		11/06/25 09:59	11/07/25 14:18	1
Lindane	<0.0098		0.0098		ug/L		11/06/25 09:59	11/07/25 14:18	1
Malathion	<0.098		0.098		ug/L		11/06/25 09:59	11/07/25 14:18	1
Methoxychlor	<0.049		0.049		ug/L		11/06/25 09:59	11/07/25 14:18	1
Metolachlor	<0.049		0.049		ug/L		11/06/25 09:59	11/07/25 14:18	1
Molinate	<0.098		0.098		ug/L		11/06/25 09:59	11/07/25 14:18	1
Naphthalene	<0.098		0.098		ug/L		11/06/25 09:59	11/07/25 14:18	1
Parathion	<0.098		0.098		ug/L		11/06/25 09:59	11/07/25 14:18	1
Pendimethalin (Penoxaline)	<0.098		0.098		ug/L		11/06/25 09:59	11/07/25 14:18	1
Phenanthrene	<0.039		0.039		ug/L		11/06/25 09:59	11/07/25 14:18	1
Propachlor	<0.049		0.049		ug/L		11/06/25 09:59	11/07/25 14:18	1
Pyrene	<0.049		0.049		ug/L		11/06/25 09:59	11/07/25 14:18	1
Simazine	<0.049		0.049		ug/L		11/06/25 09:59	11/07/25 14:18	1
Terbacil	<0.098		0.098		ug/L		11/06/25 09:59	11/07/25 14:18	1
Terbuthylazine	<0.098		0.098		ug/L		11/06/25 09:59	11/07/25 14:18	1
Thiobencarb	<0.098		0.098		ug/L		11/06/25 09:59	11/07/25 14:18	1
Total Permethrin (mixed isomers)	<0.20		0.20		ug/L		11/06/25 09:59	11/07/25 14:18	1
trans-Nonachlor	<0.049		0.049		ug/L		11/06/25 09:59	11/07/25 14:18	1
Trifluralin	<0.098		0.098		ug/L		11/06/25 09:59	11/07/25 14:18	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*			*N/A*	*11/06/25 09:59*	*11/07/25 14:18*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Nitro-m-xylene	*102*		*70 - 130*	*11/06/25 09:59*	*11/07/25 14:18*	*1*
Perylene-d12	*88*		*70 - 130*	*11/06/25 09:59*	*11/07/25 14:18*	*1*
Triphenylphosphate	*102*		*70 - 130*	*11/06/25 09:59*	*11/07/25 14:18*	*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		10/31/25 08:18	11/20/25 23:30	1
2-Methylnaphthalene	<0.19		0.19		ug/L		10/31/25 08:18	11/20/25 23:30	1
Acenaphthene	<0.19		0.19		ug/L		10/31/25 08:18	11/20/25 23:30	1
Acenaphthylene	<0.19		0.19		ug/L		10/31/25 08:18	11/20/25 23:30	1
Anthracene	<0.19		0.19		ug/L		10/31/25 08:18	11/20/25 23:30	1
Benzo[a]anthracene	<0.19		0.19		ug/L		10/31/25 08:18	11/20/25 23:30	1
Benzo[a]pyrene	<0.19		0.19		ug/L		10/31/25 08:18	11/20/25 23:30	1
Benzo[b]fluoranthene	<0.19		0.19		ug/L		10/31/25 08:18	11/20/25 23:30	1
Benzo[g,h,i]perylene	<0.19		0.19		ug/L		10/31/25 08:18	11/20/25 23:30	1
Benzo[k]fluoranthene	<0.19		0.19		ug/L		10/31/25 08:18	11/20/25 23:30	1
Chrysene	<0.19		0.19		ug/L		10/31/25 08:18	11/20/25 23:30	1

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

Lab Sample ID: 380-179746-1

Date Collected: 10/27/25 11:09
Date Received: 10/29/25 10:05

Matrix: 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		10/31/25 08:18	11/20/25 23:30	1
Fluoranthene	<0.19		0.19		ug/L		10/31/25 08:18	11/20/25 23:30	1
Fluorene	<0.19		0.19		ug/L		10/31/25 08:18	11/20/25 23:30	1
Indeno[1,2,3-cd]pyrene	<0.19		0.19		ug/L		10/31/25 08:18	11/20/25 23:30	1
Naphthalene	<0.19		0.19		ug/L		10/31/25 08:18	11/20/25 23:30	1
Phenanthrene	<0.19		0.19		ug/L		10/31/25 08:18	11/20/25 23:30	1
Pyrene	<0.19		0.19		ug/L		10/31/25 08:18	11/20/25 23:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*90*		*28 - 127*	*10/31/25 08:18*	*11/20/25 23:30*	*1*
2-Fluorobiphenyl (Surr)	*80*		*31 - 120*	*10/31/25 08:18*	*11/20/25 23:30*	*1*
2-Fluorophenol (Surr)	*52*		*17 - 120*	*10/31/25 08:18*	*11/20/25 23:30*	*1*
Nitrobenzene-d5 (Surr)	*82*		*27 - 120*	*10/31/25 08:18*	*11/20/25 23:30*	*1*
Phenol-d6 (Surr)	*32*		*10 - 120*	*10/31/25 08:18*	*11/20/25 23:30*	*1*
p-Terphenyl-d14 (Surr)	*75*		*45 - 120*	*10/31/25 08:18*	*11/20/25 23:30*	*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*
Cyclic octaatomic sulfur	*4.1*	*T J N*	*ug/L*		*9.96*	*10544-50-0*	*10/31/25 08:18*	*11/20/25 14:40*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*76*		*33 - 139*	*10/31/25 08:18*	*11/20/25 14:40*	*1*
2-Fluorobiphenyl (Surr)	*99*		*33 - 126*	*10/31/25 08:18*	*11/20/25 14:40*	*1*
2-Fluorophenol (Surr)	*52*		*12 - 120*	*10/31/25 08:18*	*11/20/25 14:40*	*1*
Nitrobenzene-d5 (Surr)	*91*		*36 - 120*	*10/31/25 08:18*	*11/20/25 14:40*	*1*
Phenol-d6 (Surr)	*30*		*10 - 120*	*10/31/25 08:18*	*11/20/25 14:40*	*1*
p-Terphenyl-d14 (Surr)	*90*		*47 - 131*	*10/31/25 08:18*	*11/20/25 14:40*	*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			10/31/25 23:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*38 - 134*		*10/31/25 23:01*	*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		11/02/25 11:32	11/11/25 16:57	1
Motor Oil Range Organics [C24-C36]	<26		26		ug/L		11/02/25 11:32	11/11/25 16:57	1
C8-C18	<26		26		ug/L		11/02/25 11:32	11/11/25 16:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*103*		*60 - 130*	*11/02/25 11:32*	*11/11/25 16:57*	*1*

Client Sample ID: TB: AIEA GULCH WELLS PUMP 1

Lab Sample ID: 380-179746-2

Date Collected: 10/27/25 11:09
Matrix: Water
Date Received: 10/29/25 10:05

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			10/31/25 20:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*38 - 134*		*10/31/25 20:48*	*1*

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

Lab Sample ID: 380-179746-3

Date Collected: 10/27/25 11:27
Matrix: Drinking Water
Date Received: 10/29/25 10:05
PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.099		0.099		ug/L		11/06/25 09:59	11/07/25 14:58	1
2,4'-DDD	<0.099		0.099		ug/L		11/06/25 09:59	11/07/25 14:58	1
2,4'-DDE	<0.099		0.099		ug/L		11/06/25 09:59	11/07/25 14:58	1
2,4'-DDT	<0.099		0.099		ug/L		11/06/25 09:59	11/07/25 14:58	1
2,4-Dinitrotoluene	<0.099		0.099		ug/L		11/06/25 09:59	11/07/25 14:58	1
2,6-Dinitrotoluene	<0.099		0.099		ug/L		11/06/25 09:59	11/07/25 14:58	1
2-Methylnaphthalene	<0.099		0.099		ug/L		11/06/25 09:59	11/07/25 14:58	1
4,4'-DDD	<0.099		0.099		ug/L		11/06/25 09:59	11/07/25 14:58	1
4,4'-DDE	<0.099		0.099		ug/L		11/06/25 09:59	11/07/25 14:58	1
4,4'-DDT	<0.099		0.099		ug/L		11/06/25 09:59	11/07/25 14:58	1
Acenaphthene	<0.099		0.099		ug/L		11/06/25 09:59	11/07/25 14:58	1
Acenaphthylene	<0.099		0.099		ug/L		11/06/25 09:59	11/07/25 14:58	1
Acetochlor	<0.099		0.099		ug/L		11/06/25 09:59	11/07/25 14:58	1
Alachlor	<0.049		0.049		ug/L		11/06/25 09:59	11/07/25 14:58	1
alpha-BHC	<0.099		0.099		ug/L		11/06/25 09:59	11/07/25 14:58	1
alpha-Chlordane	<0.049		0.049		ug/L		11/06/25 09:59	11/07/25 14:58	1
Anthracene	<0.020		0.020		ug/L		11/06/25 09:59	11/07/25 14:58	1
Atrazine	<0.049		0.049		ug/L		11/06/25 09:59	11/07/25 14:58	1
Benz(a)anthracene	<0.049		0.049		ug/L		11/06/25 09:59	11/07/25 14:58	1
Benzo[a]pyrene	<0.020		0.020		ug/L		11/06/25 09:59	11/07/25 14:58	1
Benzo[b]fluoranthene	<0.020		0.020		ug/L		11/06/25 09:59	11/07/25 14:58	1
Benzo[g,h,i]perylene	<0.049		0.049		ug/L		11/06/25 09:59	11/07/25 14:58	1
Benzo[k]fluoranthene	<0.020		0.020		ug/L		11/06/25 09:59	11/07/25 14:58	1
beta-BHC	<0.099		0.099		ug/L		11/06/25 09:59	11/07/25 14:58	1
Bis(2-ethylhexyl) phthalate	<0.59		0.59		ug/L		11/06/25 09:59	11/07/25 14:58	1
Bromacil	<0.099		0.099		ug/L		11/06/25 09:59	11/07/25 14:58	1
Butachlor	<0.049		0.049		ug/L		11/06/25 09:59	11/07/25 14:58	1
Butylbenzylphthalate	<0.49		0.49		ug/L		11/06/25 09:59	11/07/25 14:58	1
Chlorobenzilate	<0.099		0.099		ug/L		11/06/25 09:59	11/07/25 14:58	1
Chloroneb	<0.099		0.099		ug/L		11/06/25 09:59	11/07/25 14:58	1
Chlorothalonil (Draconil, Bravo)	<0.099		0.099		ug/L		11/06/25 09:59	11/07/25 14:58	1
Chlorpyrifos	<0.049		0.049		ug/L		11/06/25 09:59	11/07/25 14:58	1
Chrysene	<0.020		0.020		ug/L		11/06/25 09:59	11/07/25 14:58	1
delta-BHC	<0.099		0.099		ug/L		11/06/25 09:59	11/07/25 14:58	1
Di(2-ethylhexyl)adipate	<0.59		0.59		ug/L		11/06/25 09:59	11/07/25 14:58	1
Dibenz(a,h)anthracene	<0.049		0.049		ug/L		11/06/25 09:59	11/07/25 14:58	1
Diclorvos (DDVP)	<0.049		0.049		ug/L		11/06/25 09:59	11/07/25 14:58	1
Dieldrin	<0.0099		0.0099		ug/L		11/06/25 09:59	11/07/25 14:58	1

Client Sample ID: AIEA GULCH WELLS PUMP 2 (331-202-TP072)
Date Collected: 10/27/25 11:27
Date Received: 10/29/25 10:05

Lab Sample ID: 380-179746-3
Matrix: Drinking Water
PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diethylphthalate	<0.49		0.49		ug/L		11/06/25 09:59	11/07/25 14:58	1
Dimethylphthalate	<0.49		0.49		ug/L		11/06/25 09:59	11/07/25 14:58	1
Di-n-butyl phthalate	<0.99		0.99		ug/L		11/06/25 09:59	11/07/25 14:58	1
Di-n-octyl phthalate	<0.099		0.099		ug/L		11/06/25 09:59	11/07/25 14:58	1
Endosulfan I (Alpha)	<0.099		0.099		ug/L		11/06/25 09:59	11/07/25 14:58	1
Endosulfan II (Beta)	<0.099		0.099		ug/L		11/06/25 09:59	11/07/25 14:58	1
Endosulfan sulfate	<0.099		0.099		ug/L		11/06/25 09:59	11/07/25 14:58	1
Endrin	<0.0099		0.0099		ug/L		11/06/25 09:59	11/07/25 14:58	1
Endrin aldehyde	<0.099		0.099		ug/L		11/06/25 09:59	11/07/25 14:58	1
EPTC	<0.099		0.099		ug/L		11/06/25 09:59	11/07/25 14:58	1
Fluoranthene	<0.099		0.099		ug/L		11/06/25 09:59	11/07/25 14:58	1
Fluorene	<0.049		0.049		ug/L		11/06/25 09:59	11/07/25 14:58	1
gamma-Chlordane	<0.049		0.049		ug/L		11/06/25 09:59	11/07/25 14:58	1
Heptachlor	<0.0099		0.0099		ug/L		11/06/25 09:59	11/07/25 14:58	1
Heptachlor epoxide (isomer B)	<0.0099		0.0099		ug/L		11/06/25 09:59	11/07/25 14:58	1
Hexachlorobenzene	<0.049		0.049		ug/L		11/06/25 09:59	11/07/25 14:58	1
Hexachlorocyclopentadiene	<0.049		0.049		ug/L		11/06/25 09:59	11/07/25 14:58	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049		ug/L		11/06/25 09:59	11/07/25 14:58	1
Isophorone	<0.099		0.099		ug/L		11/06/25 09:59	11/07/25 14:58	1
Lindane	<0.0099		0.0099		ug/L		11/06/25 09:59	11/07/25 14:58	1
Malathion	<0.099		0.099		ug/L		11/06/25 09:59	11/07/25 14:58	1
Methoxychlor	<0.049		0.049		ug/L		11/06/25 09:59	11/07/25 14:58	1
Metolachlor	<0.049		0.049		ug/L		11/06/25 09:59	11/07/25 14:58	1
Molinate	<0.099		0.099		ug/L		11/06/25 09:59	11/07/25 14:58	1
Naphthalene	<0.099		0.099		ug/L		11/06/25 09:59	11/07/25 14:58	1
Parathion	<0.099		0.099		ug/L		11/06/25 09:59	11/07/25 14:58	1
Pendimethalin (Penoxaline)	<0.099		0.099		ug/L		11/06/25 09:59	11/07/25 14:58	1
Phenanthrene	<0.039		0.039		ug/L		11/06/25 09:59	11/07/25 14:58	1
Propachlor	<0.049		0.049		ug/L		11/06/25 09:59	11/07/25 14:58	1
Pyrene	<0.049		0.049		ug/L		11/06/25 09:59	11/07/25 14:58	1
Simazine	<0.049		0.049		ug/L		11/06/25 09:59	11/07/25 14:58	1
Terbacil	<0.099		0.099		ug/L		11/06/25 09:59	11/07/25 14:58	1
Terbuthylazine	<0.099		0.099		ug/L		11/06/25 09:59	11/07/25 14:58	1
Thiobencarb	<0.099		0.099		ug/L		11/06/25 09:59	11/07/25 14:58	1
Total Permethrin (mixed isomers)	<0.20		0.20		ug/L		11/06/25 09:59	11/07/25 14:58	1
trans-Nonachlor	<0.049		0.049		ug/L		11/06/25 09:59	11/07/25 14:58	1
Trifluralin	<0.099		0.099		ug/L		11/06/25 09:59	11/07/25 14:58	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*			*N/A*	*11/06/25 09:59*	*11/07/25 14:58*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Nitro-m-xylene	*100*		*70 - 130*	*11/06/25 09:59*	*11/07/25 14:58*	*1*
Perylene-d12	*89*		*70 - 130*	*11/06/25 09:59*	*11/07/25 14:58*	*1*
Triphenylphosphate	*101*		*70 - 130*	*11/06/25 09:59*	*11/07/25 14:58*	*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		10/31/25 08:18	11/20/25 23:52	1

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

Lab Sample ID: 380-179746-3

Date Collected: 10/27/25 11:27
Date Received: 10/29/25 10:05

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
2-Methylnaphthalene	<0.19		0.19		ug/L		10/31/25 08:18	11/20/25 23:52	1
Acenaphthene	<0.19		0.19		ug/L		10/31/25 08:18	11/20/25 23:52	1
Acenaphthylene	<0.19		0.19		ug/L		10/31/25 08:18	11/20/25 23:52	1
Anthracene	<0.19		0.19		ug/L		10/31/25 08:18	11/20/25 23:52	1
Benzo[a]anthracene	<0.19		0.19		ug/L		10/31/25 08:18	11/20/25 23:52	1
Benzo[a]pyrene	<0.19		0.19		ug/L		10/31/25 08:18	11/20/25 23:52	1
Benzo[b]fluoranthene	<0.19		0.19		ug/L		10/31/25 08:18	11/20/25 23:52	1
Benzo[g,h,i]perylene	<0.19		0.19		ug/L		10/31/25 08:18	11/20/25 23:52	1
Benzo[k]fluoranthene	<0.19		0.19		ug/L		10/31/25 08:18	11/20/25 23:52	1
Chrysene	<0.19		0.19		ug/L		10/31/25 08:18	11/20/25 23:52	1
Dibenz(a,h)anthracene	<0.19		0.19		ug/L		10/31/25 08:18	11/20/25 23:52	1
Fluoranthene	<0.19		0.19		ug/L		10/31/25 08:18	11/20/25 23:52	1
Fluorene	<0.19		0.19		ug/L		10/31/25 08:18	11/20/25 23:52	1
Indeno[1,2,3-cd]pyrene	<0.19		0.19		ug/L		10/31/25 08:18	11/20/25 23:52	1
Naphthalene	<0.19		0.19		ug/L		10/31/25 08:18	11/20/25 23:52	1
Phenanthrene	<0.19		0.19		ug/L		10/31/25 08:18	11/20/25 23:52	1
Pyrene	<0.19		0.19		ug/L		10/31/25 08:18	11/20/25 23:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*78*		*28 - 127*	*10/31/25 08:18*	*11/20/25 23:52*	*1*
2-Fluorobiphenyl (Surr)	*71*		*31 - 120*	*10/31/25 08:18*	*11/20/25 23:52*	*1*
2-Fluorophenol (Surr)	*48*		*17 - 120*	*10/31/25 08:18*	*11/20/25 23:52*	*1*
Nitrobenzene-d5 (Surr)	*76*		*27 - 120*	*10/31/25 08:18*	*11/20/25 23:52*	*1*
Phenol-d6 (Surr)	*29*		*10 - 120*	*10/31/25 08:18*	*11/20/25 23:52*	*1*
p-Terphenyl-d14 (Surr)	*66*		*45 - 120*	*10/31/25 08:18*	*11/20/25 23:52*	*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*
Cyclic octaatomic sulfur	*6.8*	*T J N*	*ug/L*		*9.96*	*10544-50-0*	*10/31/25 08:18*	*11/20/25 15:04*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*64*		*33 - 139*	*10/31/25 08:18*	*11/20/25 15:04*	*1*
2-Fluorobiphenyl (Surr)	*86*		*33 - 126*	*10/31/25 08:18*	*11/20/25 15:04*	*1*
2-Fluorophenol (Surr)	*47*		*12 - 120*	*10/31/25 08:18*	*11/20/25 15:04*	*1*
Nitrobenzene-d5 (Surr)	*81*		*36 - 120*	*10/31/25 08:18*	*11/20/25 15:04*	*1*
Phenol-d6 (Surr)	*28*		*10 - 120*	*10/31/25 08:18*	*11/20/25 15:04*	*1*
p-Terphenyl-d14 (Surr)	*77*		*47 - 131*	*10/31/25 08:18*	*11/20/25 15:04*	*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			10/31/25 23:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*38 - 134*		*10/31/25 23:23*	*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		11/02/25 11:32	11/11/25 17:19	1
Motor Oil Range Organics [C24-C36]	<26		26		ug/L		11/02/25 11:32	11/11/25 17:19	1

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

Lab Sample ID: 380-179746-3

Date Collected: 10/27/25 11:27
Date Received: 10/29/25 10:05

Matrix: Drinking Water
PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
C8-C18	<26		26		ug/L		11/02/25 11:32	11/11/25 17:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*97*		*60 - 130*	*11/02/25 11:32*	*11/11/25 17:19*	*1*

Client Sample ID: TB: AIEA GULCH WELLS PUMP 2

Lab Sample ID: 380-179746-4

Date Collected: 10/27/25 11:27
Date Received: 10/29/25 10:05

Matrix: Water

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			10/31/25 21:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*38 - 134*		*10/31/25 21:10*	*1*

Action Limit Summary

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

Job ID: 380-179746-1
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

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

Lab Sample ID: 380-179746-1

PWSID Number: HI0000331

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 Limit	RL	Method	Prep Type
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	F1	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)

Lab Sample ID: 380-179746-3

PWSID Number: HI0000331

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 Limit	RL	Method	Prep Type
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	<0.0099		ug/L	2	0.0099	525.2	Total/NA
Heptachlor	<0.0099		ug/L	0.4	0.0099	525.2	Total/NA
Heptachlor epoxide (isomer B)	<0.0099		ug/L	0.2	0.0099	525.2	Total/NA
Hexachlorobenzene	<0.049		ug/L	1	0.049	525.2	Total/NA
Hexachlorocyclopentadiene	<0.049		ug/L	50	0.049	525.2	Total/NA
Lindane	<0.0099		ug/L	0.2	0.0099	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: 380-179746-1
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

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

Matrix: Drinking Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		2NMX	PRY	TPP
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	(70-130)
380-179746-3	AIEA GULCH WELLS PUMP 2 (	100	89	101

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**

		Percent Surrogate Recovery (Acceptance Limits)		
		2NMX	PRY	TPP
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	(70-130)
380-179746-1	AIEA GULCH WELLS PUMP 1 (	102	88	102
380-179746-1 MS	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	100	95	108
380-179754-H-3-A DU	Duplicate	100	63 S1-	105
LCS 380-184801/22-A	Lab Control Sample	99	96	111
MB 380-184801/20-A	Method Blank	99	84	104
MRL 380-184801/21-A	Lab Control Sample	101	86	104

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**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL6	TPHd14
Lab Sample ID	Client Sample ID	(33-139)	(33-126)	(12-120)	(36-120)	(10-120)	(47-131)
380-179746-3	AIEA GULCH WELLS PUMP 2 (	64	86	47	81	28	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 - Semivolatile Organic Compounds (GC/MS)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL6	TPHd14
Lab Sample ID	Client Sample ID	(33-139)	(33-126)	(12-120)	(36-120)	(10-120)	(47-131)
380-179746-1	AIEA GULCH WELLS PUMP 1 (	76	99	52	91	30	90
MB 570-649162/1-A	Method Blank	81	84	53	87	32	82

Surrogate Legend

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

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

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

Matrix: Drinking Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)							
		TBP	FBP	2FP	NBZ	PHL6	TPHd14		
Lab Sample ID	Client Sample ID	(28-127)	(31-120)	(17-120)	(27-120)	(10-120)	(45-120)		
380-179746-3	AIEA GULCH WELLS PUMP 2 (	78	71	48	76	29	66		

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**

		Percent Surrogate Recovery (Acceptance Limits)							
		TBP	FBP	2FP	NBZ	PHL6	TPHd14		
Lab Sample ID	Client Sample ID	(28-127)	(31-120)	(17-120)	(27-120)	(10-120)	(45-120)		
380-179746-1	AIEA GULCH WELLS PUMP 1 (	90	80	52	82	32	75		
380-179754-A-1-A MS	Matrix Spike	75	74	53	65	35	82		
380-179754-A-1-B MSD	Matrix Spike Duplicate	67	64	47	59	30	73		
LCS 570-649162/2-A	Lab Control Sample	72	70	51	64	33	77		
MB 570-649162/1-A	Method Blank	57	56	36	58	25	67		

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**

		Percent Surrogate Recovery (Acceptance Limits)							
		TBP	FBP	2FP	NBZ	PHL6	TPHd14		
Lab Sample ID	Client Sample ID								
LCSD 570-649162/3-A	Lab Control Sample Dup								

Surrogate Legend

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

Surrogate Summary

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

Job ID: 380-179746-1
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

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)
380-179746-3	AIEA GULCH WELLS PUMP 2 (	97

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

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

Matrix: Water — **Prep Type: Total/NA**

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits) BFB1 (38-134)
380-179746-1	AIEA GULCH WELLS PUMP 1 (	99
380-179746-2	TB: AIEA GULCH WELLS PUMP 1	96
380-179746-4	TB: AIEA GULCH WELLS PUMP 2	98
380-179754-B-1 MS	Matrix Spike	99
380-179754-B-1 MSD	Matrix Spike Duplicate	97
LCS 570-649292/1009	Lab Control Sample	89
LCSD 570-649292/10	Lab Control Sample Dup	96
MB 570-649292/11	Method Blank	98
MRL 570-649292/1004	Lab Control Sample	97

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

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

Matrix: Drinking Water — **Prep Type: Total/NA**

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits) OTCSN1 (60-130)
380-179746-3	AIEA GULCH WELLS PUMP 2 (	97

Surrogate Legend

OTCSN = n-Octacosane (Surr)

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

Matrix: Water — **Prep Type: Total/NA**

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits) OTCSN1 (60-130)
380-179746-1	AIEA GULCH WELLS PUMP 1 (	103
380-179754-C-1-A MS	Matrix Spike	125
380-179754-C-1-B MSD	Matrix Spike Duplicate	125
LCS 570-649949/2-A	Lab Control Sample	123
LCSD 570-649949/3-A	Lab Control Sample Dup	115
MB 570-649949/1-A	Method Blank	105
MRL 570-649949/4-A	Lab Control Sample	127

Surrogate Legend

OTCSN = n-Octacosane (Surr)

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

Lab Sample ID: MB 380-184801/20-A
Matrix: Water
Analysis Batch: 185066

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 184801

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.099		0.099		ug/L		11/06/25 09:59	11/07/25 11:38	1
2,4'-DDD	<0.099		0.099		ug/L		11/06/25 09:59	11/07/25 11:38	1
2,4'-DDE	<0.099		0.099		ug/L		11/06/25 09:59	11/07/25 11:38	1
2,4'-DDT	<0.099		0.099		ug/L		11/06/25 09:59	11/07/25 11:38	1
2,4-Dinitrotoluene	<0.099		0.099		ug/L		11/06/25 09:59	11/07/25 11:38	1
2,6-Dinitrotoluene	<0.099		0.099		ug/L		11/06/25 09:59	11/07/25 11:38	1
2-Methylnaphthalene	<0.099		0.099		ug/L		11/06/25 09:59	11/07/25 11:38	1
4,4'-DDD	<0.099		0.099		ug/L		11/06/25 09:59	11/07/25 11:38	1
4,4'-DDE	<0.099		0.099		ug/L		11/06/25 09:59	11/07/25 11:38	1
4,4'-DDT	<0.099		0.099		ug/L		11/06/25 09:59	11/07/25 11:38	1
Acenaphthene	<0.099		0.099		ug/L		11/06/25 09:59	11/07/25 11:38	1
Acenaphthylene	<0.099		0.099		ug/L		11/06/25 09:59	11/07/25 11:38	1
Acetochlor	<0.099		0.099		ug/L		11/06/25 09:59	11/07/25 11:38	1
Alachlor	<0.050		0.050		ug/L		11/06/25 09:59	11/07/25 11:38	1
alpha-BHC	<0.099		0.099		ug/L		11/06/25 09:59	11/07/25 11:38	1
alpha-Chlordane	<0.050		0.050		ug/L		11/06/25 09:59	11/07/25 11:38	1
Anthracene	<0.020		0.020		ug/L		11/06/25 09:59	11/07/25 11:38	1
Atrazine	<0.050		0.050		ug/L		11/06/25 09:59	11/07/25 11:38	1
Benz(a)anthracene	<0.050		0.050		ug/L		11/06/25 09:59	11/07/25 11:38	1
Benzo[a]pyrene	<0.020		0.020		ug/L		11/06/25 09:59	11/07/25 11:38	1
Benzo[b]fluoranthene	<0.020		0.020		ug/L		11/06/25 09:59	11/07/25 11:38	1
Benzo[g,h,i]perylene	<0.050		0.050		ug/L		11/06/25 09:59	11/07/25 11:38	1
Benzo[k]fluoranthene	<0.020		0.020		ug/L		11/06/25 09:59	11/07/25 11:38	1
beta-BHC	<0.099		0.099		ug/L		11/06/25 09:59	11/07/25 11:38	1
Bis(2-ethylhexyl) phthalate	<0.59		0.59		ug/L		11/06/25 09:59	11/07/25 11:38	1
Bromacil	<0.099		0.099		ug/L		11/06/25 09:59	11/07/25 11:38	1
Butachlor	<0.050		0.050		ug/L		11/06/25 09:59	11/07/25 11:38	1
Butylbenzylphthalate	<0.50		0.50		ug/L		11/06/25 09:59	11/07/25 11:38	1
Chlorobenzilate	<0.099		0.099		ug/L		11/06/25 09:59	11/07/25 11:38	1
Chloroneb	<0.099		0.099		ug/L		11/06/25 09:59	11/07/25 11:38	1
Chlorothalonil (Draconil, Bravo)	<0.099		0.099		ug/L		11/06/25 09:59	11/07/25 11:38	1
Chlorpyrifos	<0.050		0.050		ug/L		11/06/25 09:59	11/07/25 11:38	1
Chrysene	<0.020		0.020		ug/L		11/06/25 09:59	11/07/25 11:38	1
delta-BHC	<0.099		0.099		ug/L		11/06/25 09:59	11/07/25 11:38	1
Di(2-ethylhexyl)adipate	<0.59		0.59		ug/L		11/06/25 09:59	11/07/25 11:38	1
Dibenz(a,h)anthracene	<0.050		0.050		ug/L		11/06/25 09:59	11/07/25 11:38	1
Diclorvos (DDVP)	<0.050		0.050		ug/L		11/06/25 09:59	11/07/25 11:38	1
Dieldrin	<0.0099		0.0099		ug/L		11/06/25 09:59	11/07/25 11:38	1
Diethylphthalate	<0.50		0.50		ug/L		11/06/25 09:59	11/07/25 11:38	1
Dimethylphthalate	<0.50		0.50		ug/L		11/06/25 09:59	11/07/25 11:38	1
Di-n-butyl phthalate	<0.99		0.99		ug/L		11/06/25 09:59	11/07/25 11:38	1
Di-n-octyl phthalate	<0.099		0.099		ug/L		11/06/25 09:59	11/07/25 11:38	1
Endosulfan I (Alpha)	<0.099		0.099		ug/L		11/06/25 09:59	11/07/25 11:38	1
Endosulfan II (Beta)	<0.099		0.099		ug/L		11/06/25 09:59	11/07/25 11:38	1
Endosulfan sulfate	<0.099		0.099		ug/L		11/06/25 09:59	11/07/25 11:38	1
Endrin	<0.0099		0.0099		ug/L		11/06/25 09:59	11/07/25 11:38	1
Endrin aldehyde	<0.099		0.099		ug/L		11/06/25 09:59	11/07/25 11:38	1
EPTC	<0.099		0.099		ug/L		11/06/25 09:59	11/07/25 11:38	1

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

Lab Sample ID: MB 380-184801/20-A
Matrix: Water
Analysis Batch: 185066

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 184801

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	<0.099		0.099		ug/L		11/06/25 09:59	11/07/25 11:38	1
Fluorene	<0.050		0.050		ug/L		11/06/25 09:59	11/07/25 11:38	1
gamma-Chlordane	<0.050		0.050		ug/L		11/06/25 09:59	11/07/25 11:38	1
Heptachlor	<0.0099		0.0099		ug/L		11/06/25 09:59	11/07/25 11:38	1
Heptachlor epoxide (isomer B)	<0.0099		0.0099		ug/L		11/06/25 09:59	11/07/25 11:38	1
Hexachlorobenzene	<0.050		0.050		ug/L		11/06/25 09:59	11/07/25 11:38	1
Hexachlorocyclopentadiene	<0.050		0.050		ug/L		11/06/25 09:59	11/07/25 11:38	1
Indeno[1,2,3-cd]pyrene	<0.050		0.050		ug/L		11/06/25 09:59	11/07/25 11:38	1
Isophorone	<0.099		0.099		ug/L		11/06/25 09:59	11/07/25 11:38	1
Lindane	<0.0099		0.0099		ug/L		11/06/25 09:59	11/07/25 11:38	1
Malathion	<0.099		0.099		ug/L		11/06/25 09:59	11/07/25 11:38	1
Methoxychlor	<0.050		0.050		ug/L		11/06/25 09:59	11/07/25 11:38	1
Metolachlor	<0.050		0.050		ug/L		11/06/25 09:59	11/07/25 11:38	1
Molinate	<0.099		0.099		ug/L		11/06/25 09:59	11/07/25 11:38	1
Naphthalene	<0.099		0.099		ug/L		11/06/25 09:59	11/07/25 11:38	1
Parathion	<0.099		0.099		ug/L		11/06/25 09:59	11/07/25 11:38	1
Pendimethalin (Penoxaline)	<0.099		0.099		ug/L		11/06/25 09:59	11/07/25 11:38	1
Phenanthrene	<0.040		0.040		ug/L		11/06/25 09:59	11/07/25 11:38	1
Propachlor	<0.050		0.050		ug/L		11/06/25 09:59	11/07/25 11:38	1
Pyrene	<0.050		0.050		ug/L		11/06/25 09:59	11/07/25 11:38	1
Simazine	<0.050		0.050		ug/L		11/06/25 09:59	11/07/25 11:38	1
Terbacil	<0.099		0.099		ug/L		11/06/25 09:59	11/07/25 11:38	1
Terbuthylazine	<0.099		0.099		ug/L		11/06/25 09:59	11/07/25 11:38	1
Thiobencarb	<0.099		0.099		ug/L		11/06/25 09:59	11/07/25 11:38	1
Total Permethrin (mixed isomers)	<0.20		0.20		ug/L		11/06/25 09:59	11/07/25 11:38	1
trans-Nonachlor	<0.050		0.050		ug/L		11/06/25 09:59	11/07/25 11:38	1
Trifluralin	<0.099		0.099		ug/L		11/06/25 09:59	11/07/25 11:38	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Undecane	*3.05*	*T J N*	*ug/L*		*3.12*	*1120-21-4*	*11/06/25 09:59*	*11/07/25 11:38*	*1*
Cyclopentasiloxane, decamethyl-	*0.610*	*T J N*	*ug/L*		*3.24*	*541-02-6*	*11/06/25 09:59*	*11/07/25 11:38*	*1*
Cyclohexasiloxane, dodecamethyl-	*0.925*	*T J N*	*ug/L*		*3.85*	*540-97-6*	*11/06/25 09:59*	*11/07/25 11:38*	*1*
9-Octadecenamide, (Z)-	*2.48*	*T J N*	*ug/L*		*7.82*	*301-02-0*	*11/06/25 09:59*	*11/07/25 11:38*	*1*
Unknown	*1.05*	*T J*	*ug/L*		*14.82*	*N/A*	*11/06/25 09:59*	*11/07/25 11:38*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Nitro-m-xylene	*99*		*70 - 130*	*11/06/25 09:59*	*11/07/25 11:38*	*1*
Perylene-d12	*84*		*70 - 130*	*11/06/25 09:59*	*11/07/25 11:38*	*1*
Triphenylphosphate	*104*		*70 - 130*	*11/06/25 09:59*	*11/07/25 11:38*	*1*

Lab Sample ID: LCS 380-184801/22-A
Matrix: Water
Analysis Batch: 185066

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 184801

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1-Methylnaphthalene			1.98	1.88		ug/L		95	70 - 130		
2,4'-DDD			1.98	2.15		ug/L		109	70 - 130		
2,4'-DDE			1.98	2.13		ug/L		107	70 - 130		

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

Lab Sample ID: LCS 380-184801/22-A
Matrix: Water
Analysis Batch: 185066

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 184801

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4'-DDT	1.98	2.15		ug/L		108	70 - 130
2,4-Dinitrotoluene	1.98	2.08		ug/L		105	70 - 130
2,6-Dinitrotoluene	1.98	2.04		ug/L		103	70 - 130
2-Methylnaphthalene	1.98	1.88		ug/L		95	70 - 130
4,4'-DDD	1.98	2.20		ug/L		111	70 - 130
4,4'-DDE	1.98	2.17		ug/L		110	70 - 130
4,4'-DDT	1.98	2.00		ug/L		101	70 - 130
Acenaphthene	1.98	1.95		ug/L		99	70 - 130
Acenaphthylene	1.98	1.95		ug/L		98	70 - 130
Acetochlor	1.98	2.21		ug/L		112	70 - 130
Alachlor	1.98	2.22		ug/L		112	70 - 130
alpha-BHC	1.98	2.02		ug/L		102	70 - 130
alpha-Chlordane	1.98	2.15		ug/L		109	70 - 130
Anthracene	1.98	1.90		ug/L		96	70 - 130
Atrazine	1.98	2.11		ug/L		107	70 - 130
Benz(a)anthracene	1.98	1.92		ug/L		97	70 - 130
Benzo[a]pyrene	1.98	1.87		ug/L		95	70 - 130
Benzo[b]fluoranthene	1.98	1.91		ug/L		97	70 - 130
Benzo[g,h,i]perylene	1.98	2.01		ug/L		101	70 - 130
Benzo[k]fluoranthene	1.98	1.89		ug/L		95	70 - 130
beta-BHC	1.98	2.01		ug/L		101	70 - 130
Bis(2-ethylhexyl) phthalate	1.98	2.21		ug/L		112	70 - 130
Bromacil	1.98	1.95		ug/L		98	70 - 130
Butachlor	1.98	2.23		ug/L		113	70 - 130
Butylbenzylphthalate	1.98	2.44		ug/L		123	70 - 130
Chlorobenzilate	1.98	2.24		ug/L		113	70 - 130
Chloroneb	1.98	1.88		ug/L		95	70 - 130
Chlorothalonil (Draconil, Bravo)	1.98	2.36		ug/L		119	70 - 130
Chlorpyrifos	1.98	2.24		ug/L		113	70 - 130
Chrysene	1.98	1.89		ug/L		95	70 - 130
delta-BHC	1.98	2.06		ug/L		104	70 - 130
Di(2-ethylhexyl)adipate	1.98	2.48		ug/L		125	70 - 130
Dibenz(a,h)anthracene	1.98	1.99		ug/L		100	70 - 130
Diclorvos (DDVP)	1.98	2.02		ug/L		102	70 - 130
Dieldrin	1.98	2.08		ug/L		105	70 - 130
Diethylphthalate	1.98	2.21		ug/L		112	70 - 130
Dimethylphthalate	1.98	2.15		ug/L		109	70 - 130
Di-n-butyl phthalate	3.96	4.39		ug/L		111	70 - 130
Di-n-octyl phthalate	1.98	2.25		ug/L		114	70 - 130
Endosulfan I (Alpha)	1.98	1.94		ug/L		98	70 - 130
Endosulfan II (Beta)	1.98	2.04		ug/L		103	70 - 130
Endosulfan sulfate	1.98	2.22		ug/L		112	70 - 130
Endrin	1.98	2.19		ug/L		110	70 - 130
Endrin aldehyde	1.98	1.97		ug/L		100	60 - 130
EPTC	1.98	2.12		ug/L		107	70 - 130
Fluoranthene	1.98	2.13		ug/L		107	70 - 130
Fluorene	1.98	2.01		ug/L		101	70 - 130
gamma-Chlordane	1.98	2.22		ug/L		112	70 - 130
Heptachlor	1.98	2.13		ug/L		107	70 - 130

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

Lab Sample ID: LCS 380-184801/22-A
Matrix: Water
Analysis Batch: 185066

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 184801

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Heptachlor epoxide (isomer B)	1.98	2.03		ug/L		102	70 - 130
Hexachlorobenzene	1.98	2.04		ug/L		103	70 - 130
Hexachlorocyclopentadiene	1.98	2.08		ug/L		105	70 - 130
Indeno[1,2,3-cd]pyrene	1.98	2.09		ug/L		105	70 - 130
Isophorone	1.98	2.11		ug/L		107	70 - 130
Lindane	1.98	1.96		ug/L		99	70 - 130
Malathion	1.98	2.06		ug/L		104	70 - 130
Methoxychlor	1.98	2.03		ug/L		102	70 - 130
Metolachlor	1.98	2.08		ug/L		105	70 - 130
Molinate	1.98	2.14		ug/L		108	70 - 130
Naphthalene	1.98	1.92		ug/L		97	70 - 130
Parathion	1.98	2.38		ug/L		120	70 - 130
Pendimethalin (Penoxaline)	1.98	2.12		ug/L		107	70 - 130
Phenanthrene	1.98	2.00		ug/L		101	70 - 130
Propachlor	1.98	2.20		ug/L		111	70 - 130
Pyrene	1.98	2.15		ug/L		109	70 - 130
Simazine	1.98	2.08		ug/L		105	70 - 130
Terbacil	1.98	2.19		ug/L		110	70 - 130
Terbuthylazine	1.98	2.22		ug/L		112	70 - 130
Thiobencarb	1.98	2.33		ug/L		118	70 - 130
trans-Nonachlor	1.98	2.06		ug/L		104	70 - 130
Trifluralin	1.98	2.04		ug/L		103	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Nitro-m-xylene	*99*		*70 - 130*
Perylene-d12	*96*		*70 - 130*
Triphenylphosphate	*111*		*70 - 130*

Lab Sample ID: MRL 380-184801/21-A
Matrix: Water
Analysis Batch: 185066

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 184801

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	0.0994	0.119		ug/L		120	50 - 150
2,4'-DDD	0.0994	0.0873	J	ug/L		88	50 - 150
2,4'-DDE	0.0994	0.103		ug/L		104	50 - 150
2,4'-DDT	0.0994	0.0928	J	ug/L		93	50 - 150
2,4-Dinitrotoluene	0.0994	0.114		ug/L		115	50 - 150
2,6-Dinitrotoluene	0.0994	0.133		ug/L		133	50 - 150
2-Methylnaphthalene	0.0994	0.109		ug/L		109	50 - 150
4,4'-DDD	0.0994	0.101		ug/L		102	50 - 150
4,4'-DDE	0.0994	0.101		ug/L		102	50 - 150
4,4'-DDT	0.0994	0.109		ug/L		110	50 - 150
Acenaphthene	0.0994	0.0928	J	ug/L		93	50 - 150
Acenaphthylene	0.0994	0.0925	J	ug/L		93	50 - 150
Acetochlor	0.0994	0.125		ug/L		126	50 - 150
Alachlor	0.0497	0.0543		ug/L		109	50 - 150
alpha-BHC	0.0994	0.109		ug/L		110	50 - 150

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

Lab Sample ID: MRL 380-184801/21-A
Matrix: Water
Analysis Batch: 185066

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 184801

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
alpha-Chlordane	0.0248	<0.029		ug/L		109	50 - 150
Anthracene	0.0199	0.0217		ug/L		109	50 - 150
Atrazine	0.0497	0.0514		ug/L		103	50 - 150
Benz(a)anthracene	0.0497	0.0499	J	ug/L		100	50 - 150
Benzo[a]pyrene	0.0199	0.0224		ug/L		113	50 - 150
Benzo[b]fluoranthene	0.0199	0.0215		ug/L		108	50 - 150
Benzo[g,h,i]perylene	0.0497	0.0489	J	ug/L		98	50 - 150
Benzo[k]fluoranthene	0.0199	0.0215		ug/L		108	50 - 150
beta-BHC	0.0994	0.116		ug/L		117	50 - 150
Bis(2-ethylhexyl) phthalate	0.596	0.716		ug/L		120	50 - 150
Bromacil	0.0994	0.124		ug/L		124	50 - 150
Butachlor	0.0497	0.0710		ug/L		143	50 - 150
Butylbenzylphthalate	0.497	0.650		ug/L		131	50 - 150
Chlorobenzilate	0.0994	0.111		ug/L		111	50 - 150
Chloroneb	0.0994	0.110		ug/L		110	50 - 150
Chlorothalonil (Draconil, Bravo)	0.0994	0.0963	J	ug/L		97	50 - 150
Chlorpyrifos	0.0497	0.0579		ug/L		117	50 - 150
Chrysene	0.0199	0.0203		ug/L		102	50 - 150
delta-BHC	0.0994	0.107		ug/L		108	50 - 150
Di(2-ethylhexyl)adipate	0.596	0.789		ug/L		132	50 - 150
Dibenz(a,h)anthracene	0.0497	0.0537		ug/L		108	50 - 150
Diclorvos (DDVP)	0.0497	0.0664		ug/L		134	50 - 150
Dieldrin	0.00994	0.0129		ug/L		130	50 - 150
Diethylphthalate	0.497	0.608		ug/L		122	50 - 150
Dimethylphthalate	0.497	0.580		ug/L		117	50 - 150
Di-n-butyl phthalate	0.497	0.578	J	ug/L		116	49 - 243
Di-n-octyl phthalate	0.0994	0.115		ug/L		116	50 - 150
Endosulfan I (Alpha)	0.0994	0.108		ug/L		109	50 - 150
Endosulfan II (Beta)	0.0994	0.0993		ug/L		100	50 - 150
Endosulfan sulfate	0.0994	0.104		ug/L		104	50 - 150
Endrin	0.00994	0.0110		ug/L		110	50 - 150
Endrin aldehyde	0.0994	0.121		ug/L		122	50 - 150
EPTC	0.0994	0.112		ug/L		113	50 - 150
Fluoranthene	0.0994	0.106		ug/L		107	50 - 150
Fluorene	0.0497	0.0535		ug/L		108	50 - 150
gamma-Chlordane	0.0248	0.0258	J	ug/L		104	50 - 150
Heptachlor	0.00994	0.0108		ug/L		108	50 - 150
Heptachlor epoxide (isomer B)	0.00994	0.0106		ug/L		107	50 - 150
Hexachlorobenzene	0.0497	0.0509		ug/L		102	50 - 150
Hexachlorocyclopentadiene	0.0497	0.0434	J	ug/L		87	50 - 150
Indeno[1,2,3-cd]pyrene	0.0497	0.0539		ug/L		109	50 - 150
Isophorone	0.0994	0.140		ug/L		141	50 - 150
Lindane	0.00994	0.0115		ug/L		116	50 - 150
Malathion	0.0994	0.113		ug/L		114	50 - 150
Methoxychlor	0.0497	0.0550		ug/L		111	50 - 150
Metolachlor	0.0497	0.0636		ug/L		128	50 - 150
Molinate	0.0994	0.114		ug/L		115	50 - 150
Naphthalene	0.0994	0.106		ug/L		107	50 - 150
Parathion	0.0994	0.101		ug/L		102	50 - 150

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

Lab Sample ID: MRL 380-184801/21-A
Matrix: Water
Analysis Batch: 185066

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 184801

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Pendimethalin (Penoxaline)	0.0994	0.0949	J	ug/L		96	50 - 150
Phenanthrene	0.0397	0.0415		ug/L		105	50 - 150
Propachlor	0.0497	0.0617		ug/L		124	50 - 150
Pyrene	0.0497	0.0541		ug/L		109	50 - 150
Simazine	0.0497	0.0528		ug/L		106	50 - 150
Terbacil	0.0994	0.119		ug/L		119	50 - 150
Terbuthylazine	0.0994	0.109		ug/L		110	50 - 150
Thiobencarb	0.0994	0.116		ug/L		117	50 - 150
trans-Nonachlor	0.0248	<0.026		ug/L		88	50 - 150
Trifluralin	0.0994	0.104		ug/L		105	50 - 150

Surrogate	*MRL %Recovery*	*MRL Qualifier*	*Limits*
2-Nitro-m-xylene	*101*		*70 - 130*
Perylene-d12	*86*		*70 - 130*
Triphenylphosphate	*104*		*70 - 130*

Lab Sample ID: 380-179746-1 MS
Matrix: Water
Analysis Batch: 185066

Client Sample ID: AIEA GULCH WELLS PUMP 1 (331-201-TP071)
Prep Type: Total/NA
Prep Batch: 184801

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	<0.098		1.95	1.89		ug/L		96	70 - 130
2,4'-DDD	<0.098		1.95	2.08		ug/L		107	70 - 130
2,4'-DDE	<0.098		1.95	2.12		ug/L		108	70 - 130
2,4'-DDT	<0.098		1.95	2.14		ug/L		110	70 - 130
2,4-Dinitrotoluene	<0.098		1.95	2.18		ug/L		112	70 - 130
2,6-Dinitrotoluene	<0.098		1.95	2.14		ug/L		110	70 - 130
2-Methylnaphthalene	<0.098		1.95	1.91		ug/L		97	70 - 130
4,4'-DDD	<0.098		1.95	2.13		ug/L		109	70 - 130
4,4'-DDE	<0.098		1.95	2.14		ug/L		109	70 - 130
4,4'-DDT	<0.098		1.95	1.97		ug/L		101	70 - 130
Acenaphthene	<0.098		1.95	1.96		ug/L		101	70 - 130
Acenaphthylene	<0.098		1.95	1.96		ug/L		100	70 - 130
Acetochlor	<0.098		1.95	2.17		ug/L		111	70 - 130
Alachlor	<0.049		1.95	2.18		ug/L		112	70 - 130
alpha-BHC	<0.098		1.95	2.01		ug/L		103	70 - 130
alpha-Chlordane	<0.049		1.95	2.15		ug/L		110	70 - 130
Anthracene	<0.020	F1	1.95	0.700	F1	ug/L		36	70 - 130
Atrazine	<0.049		1.95	2.19		ug/L		112	70 - 130
Benz(a)anthracene	<0.049		1.95	1.64		ug/L		84	70 - 130
Benzo[a]pyrene	<0.020	F1	1.95	1.30	F1	ug/L		67	70 - 130
Benzo[b]fluoranthene	<0.020		1.95	1.94		ug/L		99	70 - 130
Benzo[g,h,i]perylene	<0.049		1.95	2.01		ug/L		103	70 - 130
Benzo[k]fluoranthene	<0.020		1.95	1.88		ug/L		96	70 - 130
beta-BHC	<0.098		1.95	2.00		ug/L		102	70 - 130
Bis(2-ethylhexyl) phthalate	<0.59		1.95	2.16		ug/L		111	70 - 130
Bromacil	<0.098		1.95	2.03		ug/L		104	70 - 130
Butachlor	<0.049		1.95	2.16		ug/L		111	70 - 130

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

Lab Sample ID: 380-179746-1 MS
Matrix: Water
Analysis Batch: 185066

Client Sample ID: AIEA GULCH WELLS PUMP 1 (331-201-TP071)
Prep Type: Total/NA
Prep Batch: 184801

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Butylbenzylphthalate	<0.49		1.95	2.31		ug/L		118	70 - 130
Chlorobenzilate	<0.098		1.95	2.17		ug/L		111	70 - 130
Chloroneb	<0.098		1.95	1.89		ug/L		97	70 - 130
Chlorothalonil (Draconil, Bravo)	<0.098		1.95	2.27		ug/L		116	70 - 130
Chlorpyrifos	<0.049		1.95	2.23		ug/L		114	70 - 130
Chrysene	<0.020		1.95	1.89		ug/L		97	70 - 130
delta-BHC	<0.098		1.95	1.98		ug/L		102	70 - 130
Di(2-ethylhexyl)adipate	<0.59		1.95	2.32		ug/L		119	70 - 130
Dibenz(a,h)anthracene	<0.049		1.95	1.98		ug/L		101	70 - 130
Diclorvos (DDVP)	<0.049		1.95	2.06		ug/L		105	70 - 130
Dieldrin	<0.0098		1.95	2.03		ug/L		104	70 - 130
Diethylphthalate	<0.49		1.95	2.20		ug/L		113	70 - 130
Dimethylphthalate	<0.49		1.95	2.16		ug/L		110	70 - 130
Di-n-butyl phthalate	<0.98		3.91	4.40		ug/L		113	70 - 130
Di-n-octyl phthalate	<0.098		1.95	2.20		ug/L		113	70 - 130
Endosulfan I (Alpha)	<0.098		1.95	1.90		ug/L		97	70 - 130
Endosulfan II (Beta)	<0.098		1.95	1.94		ug/L		99	70 - 130
Endosulfan sulfate	<0.098		1.95	2.17		ug/L		111	70 - 130
Endrin	<0.0098		1.95	2.14		ug/L		109	70 - 130
Endrin aldehyde	<0.098		1.95	1.77		ug/L		90	60 - 130
EPTC	<0.098		1.95	2.12		ug/L		109	70 - 130
Fluoranthene	<0.098		1.95	2.15		ug/L		110	70 - 130
Fluorene	<0.049		1.95	2.02		ug/L		103	70 - 130
gamma-Chlordane	<0.049		1.95	2.22		ug/L		114	70 - 130
Heptachlor	<0.0098		1.95	2.12		ug/L		109	70 - 130
Heptachlor epoxide (isomer B)	<0.0098		1.95	1.97		ug/L		101	70 - 130
Hexachlorobenzene	<0.049		1.95	2.10		ug/L		107	70 - 130
Hexachlorocyclopentadiene	<0.049		1.95	2.12		ug/L		109	70 - 130
Indeno[1,2,3-cd]pyrene	<0.049		1.95	2.09		ug/L		107	70 - 130
Isophorone	<0.098		1.95	2.12		ug/L		109	70 - 130
Lindane	<0.0098		1.95	1.95		ug/L		100	70 - 130
Malathion	<0.098		1.95	1.99		ug/L		102	70 - 130
Methoxychlor	<0.049		1.95	1.99		ug/L		102	70 - 130
Metolachlor	<0.049		1.95	2.02		ug/L		104	70 - 130
Molinate	<0.098		1.95	2.14		ug/L		110	70 - 130
Naphthalene	<0.098		1.95	1.91		ug/L		98	70 - 130
Parathion	<0.098		1.95	2.36		ug/L		121	70 - 130
Pendimethalin (Penoxaline)	<0.098		1.95	2.17		ug/L		111	70 - 130
Phenanthrene	<0.039		1.95	2.00		ug/L		102	70 - 130
Propachlor	<0.049		1.95	2.23		ug/L		114	70 - 130
Pyrene	<0.049		1.95	2.09		ug/L		107	70 - 130
Simazine	<0.049		1.95	2.10		ug/L		107	70 - 130
Terbacil	<0.098		1.95	2.18		ug/L		112	70 - 130
Terbuthylazine	<0.098		1.95	2.23		ug/L		114	70 - 130
Thiobencarb	<0.098		1.95	2.30		ug/L		118	70 - 130
trans-Nonachlor	<0.049		1.95	2.00		ug/L		102	70 - 130
Trifluralin	<0.098		1.95	2.11		ug/L		108	70 - 130

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

Lab Sample ID: 380-179746-1 MS
Matrix: Water
Analysis Batch: 185066

Client Sample ID: AIEA GULCH WELLS PUMP 1 (331-201-TP071)
Prep Type: Total/NA
Prep Batch: 184801

Surrogate	MS %Recovery	MS Qualifier	Limits
2-Nitro-m-xylene	*100*		*70 - 130*
Perylene-d12	*95*		*70 - 130*
Triphenylphosphate	*108*		*70 - 130*

Lab Sample ID: 380-179754-H-3-A DU
Matrix: Water
Analysis Batch: 185066

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 184801

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
1-Methylnaphthalene	<0.098			<0.096		ug/L				NC	20
2,4'-DDD	<0.098			<0.096		ug/L				NC	20
2,4'-DDE	<0.098			<0.096		ug/L				NC	20
2,4'-DDT	<0.098			<0.096		ug/L				NC	20
2,4-Dinitrotoluene	<0.098			<0.096		ug/L				NC	20
2,6-Dinitrotoluene	<0.098			<0.096		ug/L				NC	20
2-Methylnaphthalene	<0.098			<0.096		ug/L				NC	20
4,4'-DDD	<0.098			<0.096		ug/L				NC	20
4,4'-DDE	<0.098			<0.096		ug/L				NC	20
4,4'-DDT	<0.098			<0.096		ug/L				NC	20
Acenaphthene	<0.098			<0.096		ug/L				NC	20
Acenaphthylene	<0.098			<0.096		ug/L				NC	20
Acetochlor	<0.098			<0.096		ug/L				NC	20
Alachlor	<0.049			<0.048		ug/L				NC	20
alpha-BHC	<0.098			<0.096		ug/L				NC	20
alpha-Chlordane	<0.049			<0.048		ug/L				NC	20
Anthracene	<0.020			<0.019		ug/L				NC	20
Atrazine	<0.049			<0.048		ug/L				NC	20
Benz(a)anthracene	<0.049			<0.048		ug/L				NC	20
Benzo[a]pyrene	<0.020			<0.019		ug/L				NC	20
Benzo[b]fluoranthene	<0.020			<0.019		ug/L				NC	20
Benzo[g,h,i]perylene	<0.049			<0.048		ug/L				NC	20
Benzo[k]fluoranthene	<0.020			<0.019		ug/L				NC	20
beta-BHC	<0.098			<0.096		ug/L				NC	20
Bis(2-ethylhexyl) phthalate	<0.59			<0.58		ug/L				NC	20
Bromacil	<0.098			<0.096		ug/L				NC	20
Butachlor	<0.049			<0.048		ug/L				NC	20
Butylbenzylphthalate	<0.49			<0.48		ug/L				NC	20
Chlorobenzilate	<0.098			<0.096		ug/L				NC	20
Chloroneb	<0.098			<0.096		ug/L				NC	20
Chlorothalonil (Draconil, Bravo)	<0.098			<0.096		ug/L				NC	20
Chlorpyrifos	<0.049			<0.048		ug/L				NC	20
Chrysene	<0.020			<0.019		ug/L				NC	20
delta-BHC	<0.098			<0.096		ug/L				NC	20
Di(2-ethylhexyl)adipate	<0.59			<0.58		ug/L				NC	20
Dibenz(a,h)anthracene	<0.049			<0.048		ug/L				NC	20
Diclorvos (DDVP)	<0.049			<0.048		ug/L				NC	20
Dieldrin	0.011			0.0107		ug/L				2	20
Diethylphthalate	<0.49			<0.48		ug/L				NC	20

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

Lab Sample ID: 380-179754-H-3-A DU
Matrix: Water
Analysis Batch: 185066

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 184801

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Dimethylphthalate	<0.49			<0.48		ug/L				NC	20
Di-n-butyl phthalate	<0.98			<0.96		ug/L				NC	20
Di-n-octyl phthalate	<0.098			<0.096		ug/L				NC	20
Endosulfan I (Alpha)	<0.098			<0.096		ug/L				NC	20
Endosulfan II (Beta)	<0.098			<0.096		ug/L				NC	20
Endosulfan sulfate	<0.098			<0.096		ug/L				NC	20
Endrin	<0.0098			<0.0096		ug/L				NC	20
Endrin aldehyde	<0.098			<0.096		ug/L				NC	20
EPTC	<0.098			<0.096		ug/L				NC	20
Fluoranthene	<0.098			<0.096		ug/L				NC	20
Fluorene	<0.049			<0.048		ug/L				NC	20
gamma-Chlordane	<0.049			<0.048		ug/L				NC	20
Heptachlor	<0.0098			<0.0096		ug/L				NC	20
Heptachlor epoxide (isomer B)	<0.0098			<0.0096		ug/L				NC	20
Hexachlorobenzene	<0.049			<0.048		ug/L				NC	20
Hexachlorocyclopentadiene	<0.049			<0.048		ug/L				NC	20
Indeno[1,2,3-cd]pyrene	<0.049			<0.048		ug/L				NC	20
Isophorone	<0.098			<0.096		ug/L				NC	20
Lindane	<0.0098			<0.0096		ug/L				NC	20
Malathion	<0.098			<0.096		ug/L				NC	20
Methoxychlor	<0.049			<0.048		ug/L				NC	20
Metolachlor	<0.049			<0.048		ug/L				NC	20
Molinate	<0.098			<0.096		ug/L				NC	20
Naphthalene	<0.098			<0.096		ug/L				NC	20
Parathion	<0.098			<0.096		ug/L				NC	20
Pendimethalin (Penoxaline)	<0.098			<0.096		ug/L				NC	20
Phenanthrene	<0.039			<0.039		ug/L				NC	20
Propachlor	<0.049			<0.048		ug/L				NC	20
Pyrene	<0.049			<0.048		ug/L				NC	20
Simazine	<0.049			<0.048		ug/L				NC	20
Terbacil	<0.098			<0.096		ug/L				NC	20
Terbuthylazine	<0.098			<0.096		ug/L				NC	20
Thiobencarb	<0.098			<0.096		ug/L				NC	20
Total Permethrin (mixed isomers)	<0.20			<0.19		ug/L				NC	20
trans-Nonachlor	<0.049			<0.048		ug/L				NC	20
Trifluralin	<0.098			<0.096		ug/L				NC	20

Surrogate	*DU %Recovery*	*DU Qualifier*	*Limits*
2-Nitro-m-xylene	*100*		*70 - 130*
Perylene-d12	*63*	*S1-*	*70 - 130*
Triphenylphosphate	*105*		*70 - 130*

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

Lab Sample ID: MB 570-649162/1-A
Matrix: Water
Analysis Batch: 657353

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 649162

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	10/31/25 08:17	11/17/25 14:51	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	81		33 - 139	10/31/25 08:17	11/17/25 14:51	1
2-Fluorobiphenyl (Surr)	84		33 - 126	10/31/25 08:17	11/17/25 14:51	1
2-Fluorophenol (Surr)	53		12 - 120	10/31/25 08:17	11/17/25 14:51	1
Nitrobenzene-d5 (Surr)	87		36 - 120	10/31/25 08:17	11/17/25 14:51	1
Phenol-d6 (Surr)	32		10 - 120	10/31/25 08:17	11/17/25 14:51	1
p-Terphenyl-d14 (Surr)	82		47 - 131	10/31/25 08:17	11/17/25 14:51	1

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

Lab Sample ID: MB 570-649162/1-A
Matrix: Water
Analysis Batch: 656023

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 649162

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.20		0.20		ug/L		10/31/25 08:17	11/13/25 23:45	1
2-Methylnaphthalene	<0.20		0.20		ug/L		10/31/25 08:17	11/13/25 23:45	1
Acenaphthene	<0.20		0.20		ug/L		10/31/25 08:17	11/13/25 23:45	1
Acenaphthylene	<0.20		0.20		ug/L		10/31/25 08:17	11/13/25 23:45	1
Anthracene	<0.20		0.20		ug/L		10/31/25 08:17	11/13/25 23:45	1
Benzo[a]anthracene	<0.20		0.20		ug/L		10/31/25 08:17	11/13/25 23:45	1
Benzo[a]pyrene	<0.20		0.20		ug/L		10/31/25 08:17	11/13/25 23:45	1
Benzo[b]fluoranthene	<0.20		0.20		ug/L		10/31/25 08:17	11/13/25 23:45	1
Benzo[g,h,i]perylene	<0.20		0.20		ug/L		10/31/25 08:17	11/13/25 23:45	1
Benzo[k]fluoranthene	<0.20		0.20		ug/L		10/31/25 08:17	11/13/25 23:45	1
Chrysene	<0.20		0.20		ug/L		10/31/25 08:17	11/13/25 23:45	1
Dibenz(a,h)anthracene	<0.20		0.20		ug/L		10/31/25 08:17	11/13/25 23:45	1
Fluoranthene	<0.20		0.20		ug/L		10/31/25 08:17	11/13/25 23:45	1
Fluorene	<0.20		0.20		ug/L		10/31/25 08:17	11/13/25 23:45	1
Indeno[1,2,3-cd]pyrene	<0.20		0.20		ug/L		10/31/25 08:17	11/13/25 23:45	1
Naphthalene	<0.20		0.20		ug/L		10/31/25 08:17	11/13/25 23:45	1
Phenanthrene	<0.20		0.20		ug/L		10/31/25 08:17	11/13/25 23:45	1
Pyrene	<0.20		0.20		ug/L		10/31/25 08:17	11/13/25 23:45	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	57		28 - 127	10/31/25 08:17	11/13/25 23:45	1
2-Fluorobiphenyl (Surr)	56		31 - 120	10/31/25 08:17	11/13/25 23:45	1
2-Fluorophenol (Surr)	36		17 - 120	10/31/25 08:17	11/13/25 23:45	1
Nitrobenzene-d5 (Surr)	58		27 - 120	10/31/25 08:17	11/13/25 23:45	1
Phenol-d6 (Surr)	25		10 - 120	10/31/25 08:17	11/13/25 23:45	1
p-Terphenyl-d14 (Surr)	67		45 - 120	10/31/25 08:17	11/13/25 23:45	1

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

Lab Sample ID: LCS 570-649162/2-A
Matrix: Water
Analysis Batch: 656023

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 649162

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	20.0	13.3		ug/L		66	47 - 120
2-Methylnaphthalene	20.0	13.2		ug/L		66	43 - 120
Acenaphthene	20.0	13.9		ug/L		70	60 - 132
Acenaphthylene	20.0	13.6		ug/L		68	54 - 126
Anthracene	20.0	13.7		ug/L		69	43 - 120
Benzo[a]anthracene	20.0	13.9		ug/L		70	42 - 133
Benzo[a]pyrene	20.0	12.3		ug/L		61	32 - 148
Benzo[b]fluoranthene	20.0	13.3		ug/L		67	42 - 140
Benzo[g,h,i]perylene	20.0	13.2		ug/L		66	1 - 195
Benzo[k]fluoranthene	20.0	13.1		ug/L		65	25 - 146
Chrysene	20.0	14.3		ug/L		72	44 - 140
Dibenz(a,h)anthracene	20.0	13.8		ug/L		69	1 - 200
Fluoranthene	20.0	14.6		ug/L		73	43 - 121
Fluorene	20.0	14.1		ug/L		70	70 - 120
Indeno[1,2,3-cd]pyrene	20.0	13.1		ug/L		65	1 - 151
Naphthalene	20.0	12.2		ug/L		61	36 - 120
Phenanthrene	20.0	14.1		ug/L		70	65 - 120
Pyrene	20.0	15.7		ug/L		79	70 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*72*		*28 - 127*
2-Fluorobiphenyl (Surr)	*70*		*31 - 120*
2-Fluorophenol (Surr)	*51*		*17 - 120*
Nitrobenzene-d5 (Surr)	*64*		*27 - 120*
Phenol-d6 (Surr)	*33*		*10 - 120*
p-Terphenyl-d14 (Surr)	*77*		*45 - 120*

Lab Sample ID: LCSD 570-649162/3-A
Matrix: Water
Analysis Batch: 656023

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 649162

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	20.0	11.9		ug/L			-		
2-Methylnaphthalene	20.0	11.8		ug/L			-		
Acenaphthene	20.0	12.5		ug/L			-		
Acenaphthylene	20.0	12.5		ug/L			-		
Anthracene	20.0	12.8		ug/L			-		
Benzo[a]anthracene	20.0	13.0		ug/L			-		
Benzo[a]pyrene	20.0	11.8		ug/L			-		
Benzo[b]fluoranthene	20.0	12.4		ug/L			-		
Benzo[g,h,i]perylene	20.0	12.3		ug/L			-		
Benzo[k]fluoranthene	20.0	12.7		ug/L			-		
Chrysene	20.0	13.4		ug/L			-		
Dibenz(a,h)anthracene	20.0	13.0		ug/L			-		
Fluoranthene	20.0	13.2		ug/L			-		
Fluorene	20.0	12.9		ug/L			-		
Indeno[1,2,3-cd]pyrene	20.0	12.2		ug/L			-		
Naphthalene	20.0	10.9		ug/L			-		

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

Lab Sample ID: LCSD 570-649162/3-A
Matrix: Water
Analysis Batch: 656023

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 649162

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Phenanthrene			20.0	12.8		ug/L			-		
Pyrene			20.0	14.6		ug/L			-		

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)			
2-Fluorobiphenyl (Surr)			
2-Fluorophenol (Surr)			
Nitrobenzene-d5 (Surr)			
Phenol-d6 (Surr)			
p-Terphenyl-d14 (Surr)			

Lab Sample ID: 380-179754-A-1-A MS
Matrix: Water
Analysis Batch: 656023

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 649162

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
1-Methylnaphthalene	<0.19		19.3	13.4		ug/L		70	36 - 120		
2-Methylnaphthalene	<0.19		19.3	13.2		ug/L		68	32 - 124		
Acenaphthene	<0.19		19.3	14.5		ug/L		75	47 - 145		
Acenaphthylene	<0.19		19.3	14.6		ug/L		75	33 - 145		
Anthracene	<0.19		19.3	14.4		ug/L		74	27 - 133		
Benzo[a]anthracene	<0.19		19.3	14.7		ug/L		76	33 - 143		
Benzo[a]pyrene	<0.19		19.3	13.6		ug/L		71	17 - 163		
Benzo[b]fluoranthene	<0.19		19.3	14.1		ug/L		73	24 - 159		
Benzo[g,h,i]perylene	<0.19		19.3	14.2		ug/L		73	1 - 219		
Benzo[k]fluoranthene	<0.19		19.3	14.2		ug/L		74	11 - 162		
Chrysene	<0.19		19.3	15.1		ug/L		78	17 - 168		
Dibenz(a,h)anthracene	<0.19		19.3	14.9		ug/L		77	1 - 227		
Fluoranthene	<0.19		19.3	14.8		ug/L		77	26 - 137		
Fluorene	<0.19		19.3	14.6		ug/L		76	59 - 121		
Indeno[1,2,3-cd]pyrene	<0.19		19.3	14.1		ug/L		73	1 - 171		
Naphthalene	<0.19		19.3	12.4		ug/L		64	21 - 133		
Phenanthrene	<0.19		19.3	14.5		ug/L		75	54 - 120		
Pyrene	<0.19		19.3	16.7		ug/L		86	52 - 120		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*75*		*28 - 127*
2-Fluorobiphenyl (Surr)	*74*		*31 - 120*
2-Fluorophenol (Surr)	*53*		*17 - 120*
Nitrobenzene-d5 (Surr)	*65*		*27 - 120*
Phenol-d6 (Surr)	*35*		*10 - 120*
p-Terphenyl-d14 (Surr)	*82*		*45 - 120*

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

Lab Sample ID: 380-179754-A-1-B MSD
Matrix: Water
Analysis Batch: 656023

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 649162

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	<0.19		19.3	11.9		ug/L		62	36 - 120	12	30
2-Methylnaphthalene	<0.19		19.3	11.8		ug/L		61	32 - 124	11	30
Acenaphthene	<0.19		19.3	12.5		ug/L		64	47 - 145	15	48
Acenaphthylene	<0.19		19.3	12.4		ug/L		64	33 - 145	16	74
Anthracene	<0.19		19.3	12.3		ug/L		64	27 - 133	15	66
Benzo[a]anthracene	<0.19		19.3	12.6		ug/L		65	33 - 143	16	53
Benzo[a]pyrene	<0.19		19.3	11.4		ug/L		59	17 - 163	17	72
Benzo[b]fluoranthene	<0.19		19.3	11.9		ug/L		62	24 - 159	17	71
Benzo[g,h,i]perylene	<0.19		19.3	11.8		ug/L		61	1 - 219	19	97
Benzo[k]fluoranthene	<0.19		19.3	12.1		ug/L		62	11 - 162	16	63
Chrysene	<0.19		19.3	13.0		ug/L		67	17 - 168	15	87
Dibenz(a,h)anthracene	<0.19		19.3	12.3		ug/L		64	1 - 227	19	126
Fluoranthene	<0.19		19.3	12.9		ug/L		67	26 - 137	14	66
Fluorene	<0.19		19.3	12.7		ug/L		66	59 - 121	14	38
Indeno[1,2,3-cd]pyrene	<0.19		19.3	11.6		ug/L		60	1 - 171	19	99
Naphthalene	<0.19		19.3	10.9		ug/L		56	21 - 133	12	65
Phenanthrene	<0.19		19.3	12.5		ug/L		65	54 - 120	15	39
Pyrene	<0.19		19.3	14.1		ug/L		73	52 - 120	17	49

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*67*		*28 - 127*
2-Fluorobiphenyl (Surr)	*64*		*31 - 120*
2-Fluorophenol (Surr)	*47*		*17 - 120*
Nitrobenzene-d5 (Surr)	*59*		*27 - 120*
Phenol-d6 (Surr)	*30*		*10 - 120*
p-Terphenyl-d14 (Surr)	*73*		*45 - 120*

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

Lab Sample ID: MB 570-649292/11
Matrix: Water
Analysis Batch: 649292

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	<10		10		ug/L			10/31/25 14:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*38 - 134*		*10/31/25 14:30*	*1*

Lab Sample ID: LCS 570-649292/1009
Matrix: Water
Analysis Batch: 649292

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (C4-C13)	400	395		ug/L		99	78 - 120

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

Lab Sample ID: LCS 570-649292/1009
Matrix: Water
Analysis Batch: 649292

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

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*89*		*38 - 134*

Lab Sample ID: LCSD 570-649292/10
Matrix: Water
Analysis Batch: 649292

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (C4-C13)			400	390		ug/L		98	78 - 120	1	10

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*38 - 134*

Lab Sample ID: MRL 570-649292/1004
Matrix: Water
Analysis Batch: 649292

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

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (C4-C13)			10.0	10.4		ug/L		104	50 - 150		

Surrogate	*MRL %Recovery*	*MRL Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*38 - 134*

Lab Sample ID: 380-179754-B-1 MS
Matrix: Water
Analysis Batch: 649292

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (C4-C13)	<10		400	438		ug/L		109	68 - 122		

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

Lab Sample ID: 380-179754-B-1 MSD
Matrix: Water
Analysis Batch: 649292

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (C4-C13)	<10		400	426		ug/L		107	68 - 122	3	18

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*38 - 134*

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

Lab Sample ID: MB 570-649949/1-A
Matrix: Water
Analysis Batch: 654466

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 649949

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	<25		25		ug/L		11/02/25 11:31	11/11/25 13:01	1
Motor Oil Range Organics [C24-C36]	<25		25		ug/L		11/02/25 11:31	11/11/25 13:01	1
C8-C18	<25		25		ug/L		11/02/25 11:31	11/11/25 13:01	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*105*		*60 - 130*	*11/02/25 11:31*	*11/11/25 13:01*	*1*

Lab Sample ID: LCS 570-649949/2-A
Matrix: Water
Analysis Batch: 654466

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 649949

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
C10-C28			2000	2120		ug/L		106	56 - 127		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
n-Octacosane (Surr)	*123*		*60 - 130*

Lab Sample ID: LCSD 570-649949/3-A
Matrix: Water
Analysis Batch: 654466

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 649949

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C10-C28			2000	1750		ug/L		87	56 - 127	19	23

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
n-Octacosane (Surr)	*115*		*60 - 130*

Lab Sample ID: MRL 570-649949/4-A
Matrix: Water
Analysis Batch: 654466

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 649949

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
C10-C28			0.0200	0.0314	^3+	mg/L		157	50 - 150		

Surrogate	*MRL %Recovery*	*MRL Qualifier*	*Limits*
n-Octacosane (Surr)	*127*		*60 - 130*

Lab Sample ID: 380-179754-C-1-A MS
Matrix: Water
Analysis Batch: 654466

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 649949

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
C10-C28	<25	^3+	2050	2100		ug/L		102	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
n-Octacosane (Surr)	*125*		*60 - 130*

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

Lab Sample ID: 380-179754-C-1-B MSD
Matrix: Water
Analysis Batch: 654466

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 649949

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C10-C28	<25	^3+	2120	2270		ug/L		107	70 - 130	8	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
n-Octacosane (Surr)	*125*		*60 - 130*

GC/MS Semi VOA

Prep Batch: 184801

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-179746-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Water	525.2	
380-179746-3	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	525.2	
MB 380-184801/20-A	Method Blank	Total/NA	Water	525.2	
LCS 380-184801/22-A	Lab Control Sample	Total/NA	Water	525.2	
MRL 380-184801/21-A	Lab Control Sample	Total/NA	Water	525.2	
380-179746-1 MS	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Water	525.2	
380-179754-H-3-A DU	Duplicate	Total/NA	Water	525.2	

Analysis Batch: 185066

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-179746-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Water	525.2	184801
380-179746-3	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	525.2	184801
MB 380-184801/20-A	Method Blank	Total/NA	Water	525.2	184801
LCS 380-184801/22-A	Lab Control Sample	Total/NA	Water	525.2	184801
MRL 380-184801/21-A	Lab Control Sample	Total/NA	Water	525.2	184801
380-179746-1 MS	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Water	525.2	184801
380-179754-H-3-A DU	Duplicate	Total/NA	Water	525.2	184801

Prep Batch: 649162

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-179746-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Water	625.1	
380-179746-3	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	625.1	
MB 570-649162/1-A	Method Blank	Total/NA	Water	625.1	
LCS 570-649162/2-A	Lab Control Sample	Total/NA	Water	625.1	
LCSD 570-649162/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	
380-179754-A-1-A MS	Matrix Spike	Total/NA	Water	625.1	
380-179754-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	625.1	

Analysis Batch: 656023

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-649162/1-A	Method Blank	Total/NA	Water	625.1 SIM	649162
LCS 570-649162/2-A	Lab Control Sample	Total/NA	Water	625.1 SIM	649162
LCSD 570-649162/3-A	Lab Control Sample Dup	Total/NA	Water	625.1 SIM	649162
380-179754-A-1-A MS	Matrix Spike	Total/NA	Water	625.1 SIM	649162
380-179754-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	625.1 SIM	649162

Analysis Batch: 657353

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-649162/1-A	Method Blank	Total/NA	Water	625.1	649162

Analysis Batch: 659204

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-179746-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Water	625.1	649162
380-179746-3	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	625.1	649162

Analysis Batch: 659328

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-179746-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Water	625.1 SIM	649162
380-179746-3	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	625.1 SIM	649162

QC Association Summary

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

Job ID: 380-179746-1
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

GC VOA

Analysis Batch: 649292

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-179746-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Water	8015B GRO LL	
380-179746-2	TB: AIEA GULCH WELLS PUMP 1	Total/NA	Water	8015B GRO LL	
380-179746-3	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	8015B GRO LL	
380-179746-4	TB: AIEA GULCH WELLS PUMP 2	Total/NA	Water	8015B GRO LL	
MB 570-649292/11	Method Blank	Total/NA	Water	8015B GRO LL	
LCS 570-649292/1009	Lab Control Sample	Total/NA	Water	8015B GRO LL	
LCSD 570-649292/10	Lab Control Sample Dup	Total/NA	Water	8015B GRO LL	
MRL 570-649292/1004	Lab Control Sample	Total/NA	Water	8015B GRO LL	
380-179754-B-1 MS	Matrix Spike	Total/NA	Water	8015B GRO LL	
380-179754-B-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8015B GRO LL	

GC Semi VOA

Prep Batch: 649949

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-179746-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Water	3510C	
380-179746-3	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	3510C	
MB 570-649949/1-A	Method Blank	Total/NA	Water	3510C	
LCS 570-649949/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 570-649949/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MRL 570-649949/4-A	Lab Control Sample	Total/NA	Water	3510C	
380-179754-C-1-A MS	Matrix Spike	Total/NA	Water	3510C	
380-179754-C-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	3510C	

Analysis Batch: 654466

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-179746-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Water	8015B	649949
380-179746-3	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	8015B	649949
MB 570-649949/1-A	Method Blank	Total/NA	Water	8015B	649949
LCS 570-649949/2-A	Lab Control Sample	Total/NA	Water	8015B	649949
LCSD 570-649949/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	649949
MRL 570-649949/4-A	Lab Control Sample	Total/NA	Water	8015B	649949
380-179754-C-1-A MS	Matrix Spike	Total/NA	Water	8015B	649949
380-179754-C-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	8015B	649949

Lab Chronicle

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

Job ID: 380-179746-1
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

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

Lab Sample ID: 380-179746-1

Date Collected: 10/27/25 11:09
Date Received: 10/29/25 10:05

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			184801	OTM3	EA POM	11/06/25 09:59
Total/NA	Analysis	525.2		1	185066	UPAC	EA POM	11/07/25 14:18
Total/NA	Prep	625.1			649162	S4EA	EET CAL 4	10/31/25 08:18
Total/NA	Analysis	625.1		1	659204	PQS1	EET CAL 4	11/20/25 14:40
Total/NA	Prep	625.1			649162	S4EA	EET CAL 4	10/31/25 08:18
Total/NA	Analysis	625.1 SIM		1	659328	PQS1	EET CAL 4	11/20/25 23:30
Total/NA	Analysis	8015B GRO LL		1	649292	A9VE	EET CAL 4	10/31/25 23:01
Total/NA	Prep	3510C			649949	TVD6	EET CAL 4	11/02/25 11:32
Total/NA	Analysis	8015B		1	654466	H6FE	EET CAL 4	11/11/25 16:57

Client Sample ID: TB: AIEA GULCH WELLS PUMP 1

Lab Sample ID: 380-179746-2

Date Collected: 10/27/25 11:09
Date Received: 10/29/25 10:05

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015B GRO LL		1	649292	A9VE	EET CAL 4	10/31/25 20:48

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

Lab Sample ID: 380-179746-3

Date Collected: 10/27/25 11:27
Date Received: 10/29/25 10:05

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			184801	OTM3	EA POM	11/06/25 09:59
Total/NA	Analysis	525.2		1	185066	UPAC	EA POM	11/07/25 14:58
Total/NA	Prep	625.1			649162	S4EA	EET CAL 4	10/31/25 08:18
Total/NA	Analysis	625.1		1	659204	PQS1	EET CAL 4	11/20/25 15:04
Total/NA	Prep	625.1			649162	S4EA	EET CAL 4	10/31/25 08:18
Total/NA	Analysis	625.1 SIM		1	659328	PQS1	EET CAL 4	11/20/25 23:52
Total/NA	Analysis	8015B GRO LL		1	649292	A9VE	EET CAL 4	10/31/25 23:23
Total/NA	Prep	3510C			649949	TVD6	EET CAL 4	11/02/25 11:32
Total/NA	Analysis	8015B		1	654466	H6FE	EET CAL 4	11/11/25 17:19

Client Sample ID: TB: AIEA GULCH WELLS PUMP 2

Lab Sample ID: 380-179746-4

Date Collected: 10/27/25 11:27
Date Received: 10/29/25 10:05

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015B GRO LL		1	649292	A9VE	EET CAL 4	10/31/25 21:10

Laboratory References:

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

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

Accreditation/Certification Summary

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

Job ID: 380-179746-1
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

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	Terbuthylazine
525.2	525.2	Drinking Water	Total Permethrin (mixed isomers)
525.2	525.2	Drinking Water	trans-Nonachlor
525 2	525 2	Water	1 Methylnaphthalene
525.2	525.2	Water	2,4'-DDD
525.2	525.2	Water	2,4'-DDE
525.2	525.2	Water	2,4'-DDT
525.2	525.2	Water	2,4-Dinitrotoluene
525.2	525.2	Water	2,6-Dinitrotoluene
525.2	525.2	Water	2-Methylnaphthalene
525.2	525.2	Water	4,4'-DDD
525.2	525.2	Water	4,4'-DDE
525.2	525.2	Water	4,4'-DDT
525.2	525.2	Water	Acetochlor

Laboratory: Eurofins Eaton Analytical Pomona (Continued)

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

Authority	Program	Identification Number	Expiration Date

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

Analysis Method	Prep Method	Matrix	Analyte
525.2	525.2	Water	alpha-BHC
525.2	525.2	Water	alpha-Chlordane
525.2	525.2	Water	beta-BHC
525.2	525.2	Water	Chlorobenzilate
525.2	525.2	Water	Chloroneb
525.2	525.2	Water	Chlorothalonil (Draconil, Bravo)
525.2	525.2	Water	Chlorpyrifos
525.2	525.2	Water	delta-BHC
525.2	525.2	Water	Diclorvos (DDVP)
525.2	525.2	Water	Endosulfan I (Alpha)
525.2	525.2	Water	Endosulfan II (Beta)
525.2	525.2	Water	Endosulfan sulfate
525.2	525.2	Water	Endrin aldehyde
525.2	525.2	Water	EPTC
525.2	525.2	Water	gamma-Chlordane
525.2	525.2	Water	Isophorone
525.2	525.2	Water	Malathion
525.2	525.2	Water	Parathion
525.2	525.2	Water	Pendimethalin (Penoxaline)
525.2	525.2	Water	Terbacil
525.2	525.2	Water	Terbuthylazine
525.2	525.2	Water	Total Permethrin (mixed isomers)
525.2	525.2	Water	trans-Nonachlor

Laboratory: Eurofins Calscience

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

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	7296.01	11-30-26
A2LA	ISO/IEC 17025	7296.01	11-30-26
Alaska (UST)	State	25-005	03-02-26
Arizona	State	AZ0830	11-17-26
California	Los Angeles County Sanitation Districts	9257304	07-31-26
California	SCAQMD LAP	17LA0919	11-30-25
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	10-11-26

Method Summary

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

Job ID: 380-179746-1
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

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: 380-179746-1
SDG: Weekly: Aiea Gulch Wells Pump 1/Pump 2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	PWSID Number
380-179746-1	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Water	10/27/25 11:09	10/29/25 10:05	HI0000331
380-179746-2	TB: AIEA GULCH WELLS PUMP 1	Water	10/27/25 11:09	10/29/25 10:05	
380-179746-3	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Drinking Water	10/27/25 11:27	10/29/25 10:05	HI0000331
380-179746-4	TB: AIEA GULCH WELLS PUMP 2	Water	10/27/25 11:27	10/29/25 10:05	

Eurofins Eaton Analytical Pomona
941 Corporate Center Drive
Pomona, CA 91768-2642
Phone (626) 386-1100

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: bailey	Lab PM: Lopez, Maria	Carrier Tracking No(s):	COC No: 380-28005-2757 1
Client Contact: Mr Kirk Iwamoto	Phone: +1 808 748 5840	E-Mail: Maria.Lopez@et.eurofinsus.com	State of Origin:	Page: Page 1 of 1
Company: City & County of Honolulu	PWSID:			Job #:
Address: 630 South Beretania Street Chemistry Lab	Due Date Requested:			
City: Honolulu	TAT Requested (days):			
State, Zip: HI, 96843	Compliance Project: Δ Yes Δ No			
Phone: 808-748-5840 (Tel)	PO #: C20525101 exp 05312023			
Email: kiwamoto@hbws.org	WO #:			
Project Name: RED-HILL/HBWS Sites Event Desc: RUSH Weekly Red Hill	Project #: 38001111			
Site: Hawaii	SSOW#:			

Analysis Requested

Preservation Codes:
R - NaThioSO4
RA - NaThio/HCl
Q - Na2SO3
QA - Na2SO3/HCl
Y - Trizma
I - NH4 Acetate

380-179746 COC

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, AmAir)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	625.1, 625.1_SIM	8015B_GRO_LL - (MOD) GRO	8015B_DRO_LL_C8 - HNL Ranges C10-C24/C24-C36/C8-C18	525.2_PREC - (MOD) 525plus Plus TICs	537.1_DW_PREC - 537.1 Full List	533 - All Analytes	Total Number of containers	Special Instructions/Note:
			Preservation Code:				R	RA	Q	QA	Y	I		
Aiea Gulch Wells Pump 1	27-Oct-2025	1109	G	Water			2	3	2	2				
Aiea Gulch Wells Pump 1 (Matrix Spike)				Water										
Aiea Gulch Wells Pump 1 (Matrix Spike Duplicate)				Water										
TB: Aiea Gulch Wells Pump 1	27-Oct-2025	1109		Water				2						
Aiea Gulch Wells Pump 2	27-Oct-2025	1127	G	Water			2	3	2	2				
Aiea Gulch Wells Pump 2 (Matrix Spike)				Water										
Aiea Gulch Wells Pump 2 (Matrix Spike Duplicate)				Water										
TB: Aiea Gulch Wells Pump 2	27-Oct-2025	1127		Water				2						

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment: FEDEx 8855 6084 0657
[redacted]	Date/Time: 28 October 2025 1400	Company: HBWS	Received by: Date/Time: 10/29/25 10:05 Company: EEAP
Relinquished by:	Date/Time:	Company	Received by: Date/Time: Company
Relinquished by:	Date/Time:	Company	Received by: Date/Time: Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks: 4571 2.4-0.0=2.4 GEL-FROZEN

Ver: 04/02/2024

ORIGIN ID HIKA (808) 748-5840
BWS CHEMLAB
HONOLULU BOARD OF WATER SUPPLY
630 S. BERETANIA ST
CHEMICAL LABORATORY
HONOLULU HI 96843
UNITED STATES US

SHIP DATE: 28OCT25
ACTWGT 56.00 LB
CAD 258050552/INET4535

BILL RECIPIENT

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

POMONA CA 91768
(626) 386-1100 REF:
INV:
PO: DEPT.

58HJ2/5D1C/59F2

FedEx Express

4 of 5

WED - 29 OCT 10:30A
PRIORITY OVERNIGHT

MPS# 0263 8855 6084 0680
Mstr# 8855 6084 0657

0201

91768

WM ONTA

CA-US ONT

6 of 36 = 36 GR

10/29/25
1005

After printing this label
CONSIGNEE COPY - PLEASE PLACE IN FRONT OF POUCH
1 Fold the printed page along the horizontal line
2 Place label in shipping pouch and affix it to your shipment

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

Chain of Custody Record

eurofins | Env

Loc: 380
179746

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Lopez, Maria	Carrier Tracking No(s): N/A	COC No: 380-270614.1
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 #: 380-179746-1
Address: 2841 Dow Avenue, Suite 100,	Due Date Requested: 11/11/2025	Analysis Requested		Preservation Codes: -
City: Tustin	TAT Requested (days): N/A			
State, Zip: CA, 92780				
Phone: 714-895-5494(Tel)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: RED-HILL	Project #: 38001111			
Site: Honolulu BWS Sites	SSOW#: N/A			Other: N/A

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015B_DRO_LL_CS/3510C_LL/HNL Ranges: C10-C24/C24-C36/C9-C18	8015B_GRO_LL/5030C(MOD) GRO	625.1_SIM/625_Prep(MOD) Extended PAH List	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
AIEA GULCH WELLS PUMP 1 (331-201-TP071) (380-179746-1)	10/27/25	11:09 Hawaiian	G	Water			X	X	X	7	MRLs are needed. Confirm any hits >RL.
TB: AIEA GULCH WELLS PUMP 1 (380-179746-2)	10/27/25	11:09 Hawaiian	G	Water				X		2	MRLs are needed.
AIEA GULCH WELLS PUMP 2 (331-202-TP072) (380-179746-3)	10/27/25	11:27 Hawaiian	G	Water			X	X	X	7	MRLs are needed. Confirm any hits >RL.
TB: AIEA GULCH WELLS PUMP 2 (380-179746-4)	10/27/25	11:27 Hawaiian	G	Water				X		2	MRLs are needed.

380-179746 Chain of Custody

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	☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time: 10-29-25 1636	Company WP	Received by:	Date/Time: 10-29-25 1636	Company EC
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 1.8 | 2.3 IR-3

Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-179746-1
SDG Number: Weekly: Aiea Gulch Wells Pump 1/Pump 2

Login Number: 179746
List Number: 1
Creator: Edrosa, Rey

List Source: Eurofins Eaton Analytical Pomona

Question	Answer	Comment
The coolers custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
Samples were received on ice.	True	
Cooler(s) Temperature is acceptable.	True	
Cooler(s) Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and is legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
ClO4 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: 380-179746-1
SDG Number: Weekly: Aiea Gulch Wells Pump 1/Pump 2

Login Number: 179746
List Number: 2
Creator: Khana, Piyush

List Source: Eurofins Calscience
List Creation: 10/29/25 06:38 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	2.3
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	