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# ANALYTICAL REPORT

## PREPARED FOR

Attn: Mr. Erwin Kawata  
City & County of Honolulu  
630 South Beretania Street  
Public Service Bldg. Room 310  
Honolulu, Hawaii 96843

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## JOB DESCRIPTION

RED-HILL  
Weekly: Aiea Gulch Wells Pump 2  
RUSH Weekly Red Hill

## JOB NUMBER

380-188302-1

# Eurofins Pomona

## Job Notes

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

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

## Compliance Statement

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

## Authorization



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# Definitions/Glossary

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

Job ID: 380-188302-1  
SDG: Weekly: Aiea Gulch Wells Pump 2

## Qualifiers

### GC/MS Semi VOA

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

### GC/MS Semi VOA TICs

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

### GC Semi VOA

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

## Glossary

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

# Case Narrative

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

Job ID: 380-188302-1

**Job ID: 380-188302-1**

**Eurofins Pomona**

## **Job Narrative 380-188302-1**

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 12/17/2025 10:30 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.5°C.

### **GC/MS Semi VOA**

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

### **Gasoline Range Organics**

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

### **Diesel Range Organics**

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

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# Detection Summary

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

Job ID: 380-188302-1  
SDG: Weekly: Aiea Gulch Wells Pump 2

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

**Lab Sample ID: 380-188302-1**

No Detections.

**Client Sample ID: TB: Aiea Gulch Wells Pump 2**

**Lab Sample ID: 380-188302-2**

No Detections.

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This Detection Summary does not include radiochemical test results.

# Client Sample Results

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

Job ID: 380-188302-1  
 SDG: Weekly: Aiea Gulch Wells Pump 2

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

**Lab Sample ID: 380-188302-1**

Date Collected: 12/15/25 11:22

Matrix: Drinking Water

Date Received: 12/17/25 10:30

PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.097		0.097	ug/L		12/23/25 12:35	12/26/25 15:55	1
2,4'-DDD	<0.097		0.097	ug/L		12/23/25 12:35	12/26/25 15:55	1
2,4'-DDE	<0.097		0.097	ug/L		12/23/25 12:35	12/26/25 15:55	1
2,4'-DDT	<0.097		0.097	ug/L		12/23/25 12:35	12/26/25 15:55	1
2,4-Dinitrotoluene	<0.097		0.097	ug/L		12/23/25 12:35	12/26/25 15:55	1
2,6-Dinitrotoluene	<0.097		0.097	ug/L		12/23/25 12:35	12/26/25 15:55	1
2-Methylnaphthalene	<0.097		0.097	ug/L		12/23/25 12:35	12/26/25 15:55	1
4,4'-DDD	<0.097		0.097	ug/L		12/23/25 12:35	12/26/25 15:55	1
4,4'-DDE	<0.097		0.097	ug/L		12/23/25 12:35	12/26/25 15:55	1
4,4'-DDT	<0.097		0.097	ug/L		12/23/25 12:35	12/26/25 15:55	1
Acenaphthene	<0.097		0.097	ug/L		12/23/25 12:35	12/26/25 15:55	1
Acenaphthylene	<0.097		0.097	ug/L		12/23/25 12:35	12/26/25 15:55	1
Acetochlor	<0.097		0.097	ug/L		12/23/25 12:35	12/26/25 15:55	1
Alachlor	<0.048		0.048	ug/L		12/23/25 12:35	12/26/25 15:55	1
alpha-BHC	<0.097		0.097	ug/L		12/23/25 12:35	12/26/25 15:55	1
alpha-Chlordane	<0.048		0.048	ug/L		12/23/25 12:35	12/26/25 15:55	1
Anthracene	<0.019		0.019	ug/L		12/23/25 12:35	12/26/25 15:55	1
Atrazine	<0.048		0.048	ug/L		12/23/25 12:35	12/26/25 15:55	1
Benz(a)anthracene	<0.048		0.048	ug/L		12/23/25 12:35	12/26/25 15:55	1
Benzo[a]pyrene	<0.019		0.019	ug/L		12/23/25 12:35	12/26/25 15:55	1
Benzo[b]fluoranthene	<0.019		0.019	ug/L		12/23/25 12:35	12/26/25 15:55	1
Benzo[g,h,i]perylene	<0.048		0.048	ug/L		12/23/25 12:35	12/26/25 15:55	1
Benzo[k]fluoranthene	<0.019		0.019	ug/L		12/23/25 12:35	12/26/25 15:55	1
beta-BHC	<0.097		0.097	ug/L		12/23/25 12:35	12/26/25 15:55	1
Bis(2-ethylhexyl) phthalate	<0.58		0.58	ug/L		12/23/25 12:35	12/26/25 15:55	1
Bromacil	<0.097		0.097	ug/L		12/23/25 12:35	12/26/25 15:55	1
Butachlor	<0.048		0.048	ug/L		12/23/25 12:35	12/26/25 15:55	1
Butylbenzylphthalate	<0.48		0.48	ug/L		12/23/25 12:35	12/26/25 15:55	1
Chlorobenzilate	<0.097		0.097	ug/L		12/23/25 12:35	12/26/25 15:55	1
Chloroneb	<0.097		0.097	ug/L		12/23/25 12:35	12/26/25 15:55	1
Chlorothalonil (Draconil, Bravo)	<0.097		0.097	ug/L		12/23/25 12:35	12/26/25 15:55	1
Chlorpyrifos	<0.048		0.048	ug/L		12/23/25 12:35	12/26/25 15:55	1
Chrysene	<0.019		0.019	ug/L		12/23/25 12:35	12/26/25 15:55	1
delta-BHC	<0.097		0.097	ug/L		12/23/25 12:35	12/26/25 15:55	1
Di(2-ethylhexyl)adipate	<0.58		0.58	ug/L		12/23/25 12:35	12/26/25 15:55	1
Dibenz(a,h)anthracene	<0.048		0.048	ug/L		12/23/25 12:35	12/26/25 15:55	1
Diclorvos (DDVP)	<0.048		0.048	ug/L		12/23/25 12:35	12/26/25 15:55	1
Dieldrin	<0.0097		0.0097	ug/L		12/23/25 12:35	12/26/25 15:55	1
Diethylphthalate	<0.48		0.48	ug/L		12/23/25 12:35	12/26/25 15:55	1
Dimethylphthalate	<0.48		0.48	ug/L		12/23/25 12:35	12/26/25 15:55	1
Di-n-butyl phthalate	<0.97		0.97	ug/L		12/23/25 12:35	12/26/25 15:55	1
Di-n-octyl phthalate	<0.097		0.097	ug/L		12/23/25 12:35	12/26/25 15:55	1
Endosulfan I (Alpha)	<0.097		0.097	ug/L		12/23/25 12:35	12/26/25 15:55	1
Endosulfan II (Beta)	<0.097		0.097	ug/L		12/23/25 12:35	12/26/25 15:55	1
Endosulfan sulfate	<0.097		0.097	ug/L		12/23/25 12:35	12/26/25 15:55	1
Endrin	<0.0097		0.0097	ug/L		12/23/25 12:35	12/26/25 15:55	1
Endrin aldehyde	<0.097		0.097	ug/L		12/23/25 12:35	12/26/25 15:55	1
EPTC	<0.097		0.097	ug/L		12/23/25 12:35	12/26/25 15:55	1

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# Client Sample Results

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

Job ID: 380-188302-1  
SDG: Weekly: Aiea Gulch Wells Pump 2

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

**Lab Sample ID: 380-188302-1**

Date Collected: 12/15/25 11:22

Matrix: Drinking Water

Date Received: 12/17/25 10:30

PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Fluoranthene	<0.097		0.097	ug/L		12/23/25 12:35	12/26/25 15:55	1	
Fluorene	<0.048		0.048	ug/L		12/23/25 12:35	12/26/25 15:55	1	
gamma-Chlordane	<0.048		0.048	ug/L		12/23/25 12:35	12/26/25 15:55	1	
Heptachlor	<0.0097		0.0097	ug/L		12/23/25 12:35	12/26/25 15:55	1	
Heptachlor epoxide (isomer B)	<0.0097	^3+	0.0097	ug/L		12/23/25 12:35	12/26/25 15:55	1	
Hexachlorobenzene	<0.048		0.048	ug/L		12/23/25 12:35	12/26/25 15:55	1	
Hexachlorocyclopentadiene	<0.048		0.048	ug/L		12/23/25 12:35	12/26/25 15:55	1	
Indeno[1,2,3-cd]pyrene	<0.048		0.048	ug/L		12/23/25 12:35	12/26/25 15:55	1	
Isophorone	<0.097		0.097	ug/L		12/23/25 12:35	12/26/25 15:55	1	
Lindane	<0.0097		0.0097	ug/L		12/23/25 12:35	12/26/25 15:55	1	
Malathion	<0.097		0.097	ug/L		12/23/25 12:35	12/26/25 15:55	1	
Methoxychlor	<0.048		0.048	ug/L		12/23/25 12:35	12/26/25 15:55	1	
Metolachlor	<0.048		0.048	ug/L		12/23/25 12:35	12/26/25 15:55	1	
Molinate	<0.097		0.097	ug/L		12/23/25 12:35	12/26/25 15:55	1	
Naphthalene	<0.097		0.097	ug/L		12/23/25 12:35	12/26/25 15:55	1	
Parathion	<0.097		0.097	ug/L		12/23/25 12:35	12/26/25 15:55	1	
Pendimethalin (Penoxaline)	<0.097		0.097	ug/L		12/23/25 12:35	12/26/25 15:55	1	
Phenanthrene	<0.039		0.039	ug/L		12/23/25 12:35	12/26/25 15:55	1	
Propachlor	<0.048		0.048	ug/L		12/23/25 12:35	12/26/25 15:55	1	
Pyrene	<0.048		0.048	ug/L		12/23/25 12:35	12/26/25 15:55	1	
Simazine	<0.048		0.048	ug/L		12/23/25 12:35	12/26/25 15:55	1	
Terbacil	<0.097		0.097	ug/L		12/23/25 12:35	12/26/25 15:55	1	
Terbutylazine	<0.097		0.097	ug/L		12/23/25 12:35	12/26/25 15:55	1	
Thiobencarb	<0.097		0.097	ug/L		12/23/25 12:35	12/26/25 15:55	1	
Total Permethrin (mixed isomers)	<0.19		0.19	ug/L		12/23/25 12:35	12/26/25 15:55	1	
trans-Nonachlor	<0.048		0.048	ug/L		12/23/25 12:35	12/26/25 15:55	1	
Trifluralin	<0.097		0.097	ug/L		12/23/25 12:35	12/26/25 15:55	1	
<b>Tentatively Identified Compound</b>	<b>Est. Result</b>	<b>Qualifier</b>	<b>Unit</b>	<b>D</b>	<b>RT</b>	<b>CAS No.</b>	<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Tetradecanamide	0.58	T J N	ug/L		8.07	638-58-4	12/23/25 12:35	12/26/25 15:55	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2-Nitro-m-xylene	97		70 - 130				12/23/25 12:35	12/26/25 15:55	1
Perylene-d12	94		70 - 130				12/23/25 12:35	12/26/25 15:55	1
Triphenylphosphate	105		70 - 130				12/23/25 12:35	12/26/25 15:55	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		12/17/25 22:00	12/26/25 14:18	1
2-Methylnaphthalene	<0.19		0.19	ug/L		12/17/25 22:00	12/26/25 14:18	1
Acenaphthene	<0.19		0.19	ug/L		12/17/25 22:00	12/26/25 14:18	1
Acenaphthylene	<0.19		0.19	ug/L		12/17/25 22:00	12/26/25 14:18	1
Anthracene	<0.19		0.19	ug/L		12/17/25 22:00	12/26/25 14:18	1
Benzo[a]anthracene	<0.19		0.19	ug/L		12/17/25 22:00	12/26/25 14:18	1
Benzo[a]pyrene	<0.19		0.19	ug/L		12/17/25 22:00	12/26/25 14:18	1
Benzo[b]fluoranthene	<0.19		0.19	ug/L		12/17/25 22:00	12/26/25 14:18	1
Benzo[g,h,i]perylene	<0.19		0.19	ug/L		12/17/25 22:00	12/26/25 14:18	1
Benzo[k]fluoranthene	<0.19		0.19	ug/L		12/17/25 22:00	12/26/25 14:18	1
Chrysene	<0.19		0.19	ug/L		12/17/25 22:00	12/26/25 14:18	1

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# Client Sample Results

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

Job ID: 380-188302-1  
SDG: Weekly: Aiea Gulch Wells Pump 2

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

**Lab Sample ID: 380-188302-1**

Date Collected: 12/15/25 11:22

Matrix: Drinking Water

Date Received: 12/17/25 10:30

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		12/17/25 22:00	12/26/25 14:18	1
Fluoranthene	<0.19		0.19	ug/L		12/17/25 22:00	12/26/25 14:18	1
Fluorene	<0.19		0.19	ug/L		12/17/25 22:00	12/26/25 14:18	1
Indeno[1,2,3-cd]pyrene	<0.19		0.19	ug/L		12/17/25 22:00	12/26/25 14:18	1
Naphthalene	<0.19		0.19	ug/L		12/17/25 22:00	12/26/25 14:18	1
Phenanthrene	<0.19		0.19	ug/L		12/17/25 22:00	12/26/25 14:18	1
Pyrene	<0.19		0.19	ug/L		12/17/25 22:00	12/26/25 14:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	94		28 - 127			12/17/25 22:00	12/26/25 14:18	1
2-Fluorobiphenyl (Surr)	87		31 - 120			12/17/25 22:00	12/26/25 14:18	1
2-Fluorophenol (Surr)	59		17 - 120			12/17/25 22:00	12/26/25 14:18	1
Nitrobenzene-d5 (Surr)	87		27 - 120			12/17/25 22:00	12/26/25 14:18	1
Phenol-d6 (Surr)	37		10 - 120			12/17/25 22:00	12/26/25 14:18	1
p-Terphenyl-d14 (Surr)	84		45 - 120			12/17/25 22:00	12/26/25 14:18	1

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

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	12/17/25 22:00	12/29/25 17:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	85		33 - 139				12/17/25 22:00	12/29/25 17:32	1
2-Fluorobiphenyl (Surr)	83		33 - 126				12/17/25 22:00	12/29/25 17:32	1
2-Fluorophenol (Surr)	56		12 - 120				12/17/25 22:00	12/29/25 17:32	1
Nitrobenzene-d5 (Surr)	102		36 - 120				12/17/25 22:00	12/29/25 17:32	1
Phenol-d6 (Surr)	33		10 - 120				12/17/25 22:00	12/29/25 17:32	1
p-Terphenyl-d14 (Surr)	88		47 - 131				12/17/25 22:00	12/29/25 17:32	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	<10		10	ug/L			12/28/25 16:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		38 - 134				12/28/25 16:04	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	<27		27	ug/L		12/18/25 08:24	01/07/26 00:23	1
Motor Oil Range Organics [C24-C36]	<27		27	ug/L		12/18/25 08:24	01/07/26 00:23	1
C8-C18	<27		27	ug/L		12/18/25 08:24	01/07/26 00:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	103		60 - 130			12/18/25 08:24	01/07/26 00:23	1

# Client Sample Results

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

Job ID: 380-188302-1  
 SDG: Weekly: Aiea Gulch Wells Pump 2

**Client Sample ID: TB: Aiea Gulch Wells Pump 2**

**Lab Sample ID: 380-188302-2**

Date Collected: 12/15/25 11:22

Matrix: Water

Date Received: 12/17/25 10:30

**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			12/27/25 18:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		38 - 134				12/27/25 18:02	1

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

# Action Limit Summary

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

Job ID: 380-188302-1  
SDG: Weekly: Aiea Gulch Wells Pump 2

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

**Lab Sample ID: 380-188302-1**

## Compliance Check

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

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

# Surrogate Summary

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

Job ID: 380-188302-1  
SDG: Weekly: Aiea Gulch Wells Pump 2

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

Matrix: Drinking Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		2NMX (70-130)	PRY (70-130)	TPP (70-130)
380-188302-1	AIEA GULCH WELLS PUMP 2 (331)	97	94	105

**Surrogate Legend**

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

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		2NMX (70-130)	PRY (70-130)	TPP (70-130)
380-188756-AJ-1-A MS	Matrix Spike	98	101	106
810-176101-P-1-A DU	Duplicate	98	92	108
LCS 380-194295/21-A	Lab Control Sample	99	100	110
MB 380-194295/22-A	Method Blank	97	87	104
MRL 380-194295/23-A	Lab Control Sample	97	91	105

**Surrogate Legend**

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

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

Matrix: Drinking Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (33-139)	FBP (33-126)	2FP (12-120)	NBZ (36-120)	PHL6 (10-120)	TPHd14 (47-131)
380-188302-1	AIEA GULCH WELLS PUMP 2 (331)	85	83	56	102	33	88

**Surrogate Legend**

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

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (33-139)	FBP (33-126)	2FP (12-120)	NBZ (36-120)	PHL6 (10-120)	TPHd14 (47-131)
MB 570-671320/1-A	Method Blank	71	81	58	83	32	82

**Surrogate Legend**

TBP = 2,4,6-Tribromophenol (Surr)  
FBP = 2-Fluorobiphenyl (Surr)  
2FP = 2-Fluorophenol (Surr)  
NBZ = Nitrobenzene-d5 (Surr)

# Surrogate Summary

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

Job ID: 380-188302-1  
 SDG: Weekly: Aiea Gulch Wells Pump 2

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

Matrix: Drinking Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (28-127)	FBP (31-120)	2FP (17-120)	NBZ (27-120)	PHL6 (10-120)	TPHd14 (45-120)
380-188302-1	AIEA GULCH WELLS PUMP 2 (331)	94	87	59	87	37	84

**Surrogate Legend**

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

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (28-127)	FBP (31-120)	2FP (17-120)	NBZ (27-120)	PHL6 (10-120)	TPHd14 (45-120)
LCS 570-671320/2-A	Lab Control Sample	75	73	58	63	38	77
LCSD 570-671320/3-A	Lab Control Sample Dup	84	85	63	71	41	83
MB 570-671320/1-A	Method Blank	84	78	52	76	33	73

**Surrogate Legend**

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

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

Matrix: Drinking Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)
		BFB1 (38-134)
380-188302-1	AIEA GULCH WELLS PUMP 2 (331)	101

**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)
380-188302-2	TB: Aiea Gulch Wells Pump 2	102
380-188308-C-1 MS	Matrix Spike	104
380-188308-C-1 MSD	Matrix Spike Duplicate	95
380-189454-B-1 MS	Matrix Spike	101
380-189454-B-1 MSD	Matrix Spike Duplicate	101

# Surrogate Summary

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

Job ID: 380-188302-1  
 SDG: Weekly: Aiea Gulch Wells Pump 2

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (38-134)	
LCS 570-675780/1010	Lab Control Sample	101	
LCS 570-675935/4	Lab Control Sample	100	
LCSD 570-675780/11	Lab Control Sample Dup	98	
LCSD 570-675935/5	Lab Control Sample Dup	105	
MB 570-675780/12	Method Blank	100	
MB 570-675935/6	Method Blank	101	
MRL 570-675780/1005	Lab Control Sample	93	
MRL 570-675935/3	Lab Control Sample	93	
<b>Surrogate Legend</b>			
BFB = 4-Bromofluorobenzene (Surr)			

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

Matrix: Drinking Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	OTCSN1 (60-130)	
380-188302-1 - RA	AIEA GULCH WELLS PUMP 2 (331)	103	
<b>Surrogate Legend</b>			
OTCSN = n-Octacosane (Surr)			

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	OTCSN1 (60-130)	
380-188308-B-1-A MS	Matrix Spike	129	
380-188308-B-1-B MSD	Matrix Spike Duplicate	121	
LCS 570-671434/2-A	Lab Control Sample	105	
LCSD 570-671434/3-A	Lab Control Sample Dup	99	
MB 570-671434/1-A	Method Blank	109	
MRL 570-671434/4-A	Lab Control Sample	111	
<b>Surrogate Legend</b>			
OTCSN = n-Octacosane (Surr)			

# QC Sample Results

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

Job ID: 380-188302-1  
 SDG: Weekly: Aiea Gulch Wells Pump 2

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

**Lab Sample ID: MB 380-194295/22-A**  
**Matrix: Water**  
**Analysis Batch: 194631**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 194295**

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
1-Methylnaphthalene	<0.098		0.098	ug/L		12/23/25 12:35	12/26/25 13:54	1
2,4'-DDD	<0.098		0.098	ug/L		12/23/25 12:35	12/26/25 13:54	1
2,4'-DDE	<0.098		0.098	ug/L		12/23/25 12:35	12/26/25 13:54	1
2,4'-DDT	<0.098		0.098	ug/L		12/23/25 12:35	12/26/25 13:54	1
2,4-Dinitrotoluene	<0.098		0.098	ug/L		12/23/25 12:35	12/26/25 13:54	1
2,6-Dinitrotoluene	<0.098		0.098	ug/L		12/23/25 12:35	12/26/25 13:54	1
2-Methylnaphthalene	<0.098		0.098	ug/L		12/23/25 12:35	12/26/25 13:54	1
4,4'-DDD	<0.098		0.098	ug/L		12/23/25 12:35	12/26/25 13:54	1
4,4'-DDE	<0.098		0.098	ug/L		12/23/25 12:35	12/26/25 13:54	1
4,4'-DDT	<0.098		0.098	ug/L		12/23/25 12:35	12/26/25 13:54	1
Acenaphthene	<0.098		0.098	ug/L		12/23/25 12:35	12/26/25 13:54	1
Acenaphthylene	<0.098		0.098	ug/L		12/23/25 12:35	12/26/25 13:54	1
Acetochlor	<0.098		0.098	ug/L		12/23/25 12:35	12/26/25 13:54	1
Alachlor	<0.049		0.049	ug/L		12/23/25 12:35	12/26/25 13:54	1
alpha-BHC	<0.098		0.098	ug/L		12/23/25 12:35	12/26/25 13:54	1
alpha-Chlordane	<0.049		0.049	ug/L		12/23/25 12:35	12/26/25 13:54	1
Anthracene	<0.020		0.020	ug/L		12/23/25 12:35	12/26/25 13:54	1
Atrazine	<0.049		0.049	ug/L		12/23/25 12:35	12/26/25 13:54	1
Benz(a)anthracene	<0.049		0.049	ug/L		12/23/25 12:35	12/26/25 13:54	1
Benzo[a]pyrene	<0.020		0.020	ug/L		12/23/25 12:35	12/26/25 13:54	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		12/23/25 12:35	12/26/25 13:54	1
Benzo[g,h,i]perylene	<0.049		0.049	ug/L		12/23/25 12:35	12/26/25 13:54	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		12/23/25 12:35	12/26/25 13:54	1
beta-BHC	<0.098		0.098	ug/L		12/23/25 12:35	12/26/25 13:54	1
Bis(2-ethylhexyl) phthalate	<0.59		0.59	ug/L		12/23/25 12:35	12/26/25 13:54	1
Bromacil	<0.098		0.098	ug/L		12/23/25 12:35	12/26/25 13:54	1
Butachlor	<0.049		0.049	ug/L		12/23/25 12:35	12/26/25 13:54	1
Butylbenzylphthalate	<0.49		0.49	ug/L		12/23/25 12:35	12/26/25 13:54	1
Chlorobenzilate	<0.098		0.098	ug/L		12/23/25 12:35	12/26/25 13:54	1
Chloroneb	<0.098		0.098	ug/L		12/23/25 12:35	12/26/25 13:54	1
Chlorothalonil (Draconil, Bravo)	<0.098		0.098	ug/L		12/23/25 12:35	12/26/25 13:54	1
Chlorpyrifos	<0.049		0.049	ug/L		12/23/25 12:35	12/26/25 13:54	1
Chrysene	<0.020		0.020	ug/L		12/23/25 12:35	12/26/25 13:54	1
delta-BHC	<0.098		0.098	ug/L		12/23/25 12:35	12/26/25 13:54	1
Di(2-ethylhexyl)adipate	<0.59		0.59	ug/L		12/23/25 12:35	12/26/25 13:54	1
Dibenz(a,h)anthracene	<0.049		0.049	ug/L		12/23/25 12:35	12/26/25 13:54	1
Diclorvos (DDVP)	<0.049		0.049	ug/L		12/23/25 12:35	12/26/25 13:54	1
Dieldrin	<0.0098		0.0098	ug/L		12/23/25 12:35	12/26/25 13:54	1
Diethylphthalate	<0.49		0.49	ug/L		12/23/25 12:35	12/26/25 13:54	1
Dimethylphthalate	<0.49		0.49	ug/L		12/23/25 12:35	12/26/25 13:54	1
Di-n-butyl phthalate	<0.98		0.98	ug/L		12/23/25 12:35	12/26/25 13:54	1
Di-n-octyl phthalate	<0.098		0.098	ug/L		12/23/25 12:35	12/26/25 13:54	1
Endosulfan I (Alpha)	<0.098		0.098	ug/L		12/23/25 12:35	12/26/25 13:54	1
Endosulfan II (Beta)	<0.098		0.098	ug/L		12/23/25 12:35	12/26/25 13:54	1
Endosulfan sulfate	<0.098		0.098	ug/L		12/23/25 12:35	12/26/25 13:54	1
Endrin	<0.0098		0.0098	ug/L		12/23/25 12:35	12/26/25 13:54	1
Endrin aldehyde	<0.098		0.098	ug/L		12/23/25 12:35	12/26/25 13:54	1
EPTC	<0.098		0.098	ug/L		12/23/25 12:35	12/26/25 13:54	1

# QC Sample Results

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

Job ID: 380-188302-1  
SDG: Weekly: Aiea Gulch Wells Pump 2

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

**Lab Sample ID: MB 380-194295/22-A**  
**Matrix: Water**  
**Analysis Batch: 194631**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 194295**

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Fluoranthene	<0.098		0.098	ug/L		12/23/25 12:35	12/26/25 13:54	1
Fluorene	<0.049		0.049	ug/L		12/23/25 12:35	12/26/25 13:54	1
gamma-Chlordane	<0.049		0.049	ug/L		12/23/25 12:35	12/26/25 13:54	1
Heptachlor	<0.0098		0.0098	ug/L		12/23/25 12:35	12/26/25 13:54	1
Heptachlor epoxide (isomer B)	<0.0098	^3+	0.0098	ug/L		12/23/25 12:35	12/26/25 13:54	1
Hexachlorobenzene	<0.049		0.049	ug/L		12/23/25 12:35	12/26/25 13:54	1
Hexachlorocyclopentadiene	<0.049		0.049	ug/L		12/23/25 12:35	12/26/25 13:54	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049	ug/L		12/23/25 12:35	12/26/25 13:54	1
Isophorone	<0.098		0.098	ug/L		12/23/25 12:35	12/26/25 13:54	1
Lindane	<0.0098		0.0098	ug/L		12/23/25 12:35	12/26/25 13:54	1
Malathion	<0.098		0.098	ug/L		12/23/25 12:35	12/26/25 13:54	1
Methoxychlor	<0.049		0.049	ug/L		12/23/25 12:35	12/26/25 13:54	1
Metolachlor	<0.049		0.049	ug/L		12/23/25 12:35	12/26/25 13:54	1
Molinate	<0.098		0.098	ug/L		12/23/25 12:35	12/26/25 13:54	1
Naphthalene	<0.098		0.098	ug/L		12/23/25 12:35	12/26/25 13:54	1
Parathion	<0.098		0.098	ug/L		12/23/25 12:35	12/26/25 13:54	1
Pendimethalin (Penoxaline)	<0.098		0.098	ug/L		12/23/25 12:35	12/26/25 13:54	1
Phenanthrene	<0.039		0.039	ug/L		12/23/25 12:35	12/26/25 13:54	1
Propachlor	<0.049		0.049	ug/L		12/23/25 12:35	12/26/25 13:54	1
Pyrene	<0.049		0.049	ug/L		12/23/25 12:35	12/26/25 13:54	1
Simazine	<0.049		0.049	ug/L		12/23/25 12:35	12/26/25 13:54	1
Terbacil	<0.098		0.098	ug/L		12/23/25 12:35	12/26/25 13:54	1
Terbutylazine	<0.098		0.098	ug/L		12/23/25 12:35	12/26/25 13:54	1
Thiobencarb	<0.098		0.098	ug/L		12/23/25 12:35	12/26/25 13:54	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		12/23/25 12:35	12/26/25 13:54	1
trans-Nonachlor	<0.049		0.049	ug/L		12/23/25 12:35	12/26/25 13:54	1
Trifluralin	<0.098		0.098	ug/L		12/23/25 12:35	12/26/25 13:54	1

Tentatively Identified Compound	MB	MB	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
	Est. Result	Qualifier							
Cyclopentene, 1,2,3,4,5-pentamethyl-	1.32	T J N	ug/L		2.54	1000154-28-6	12/23/25 12:35	12/26/25 13:54	1
Unknown	0.565	T J	ug/L		2.99	N/A	12/23/25 12:35	12/26/25 13:54	1
Undecane	2.49	T J N	ug/L		3.14	1120-21-4	12/23/25 12:35	12/26/25 13:54	1
Cyclohexasiloxane, dodecamethyl-	0.627	T J N	ug/L		3.90	540-97-6	12/23/25 12:35	12/26/25 13:54	1
9-Octadecenamamide, (Z)-	3.43	T J N	ug/L		7.97	301-02-0	12/23/25 12:35	12/26/25 13:54	1
13-Docosenamamide, (Z)-	0.530	T J N	ug/L		10.54	112-84-5	12/23/25 12:35	12/26/25 13:54	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2-Nitro-m-xylene	97		70 - 130	12/23/25 12:35	12/26/25 13:54	1
Perylene-d12	87		70 - 130	12/23/25 12:35	12/26/25 13:54	1
Triphenylphosphate	104		70 - 130	12/23/25 12:35	12/26/25 13:54	1

**Lab Sample ID: LCS 380-194295/21-A**  
**Matrix: Water**  
**Analysis Batch: 194631**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 194295**

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

Eurofins Pomona

# QC Sample Results

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

Job ID: 380-188302-1  
 SDG: Weekly: Aiea Gulch Wells Pump 2

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

**Lab Sample ID: LCS 380-194295/21-A**

**Matrix: Water**

**Analysis Batch: 194631**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 194295**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4'-DDD	1.95	1.86		ug/L		95	70 - 130
2,4'-DDE	1.95	2.09		ug/L		107	70 - 130
2,4'-DDT	1.95	1.93		ug/L		99	70 - 130
2,4-Dinitrotoluene	1.95	2.03		ug/L		104	70 - 130
2,6-Dinitrotoluene	1.95	1.83		ug/L		94	70 - 130
2-Methylnaphthalene	1.95	1.91		ug/L		98	70 - 130
4,4'-DDD	1.95	1.91		ug/L		98	70 - 130
4,4'-DDE	1.95	2.00		ug/L		102	70 - 130
4,4'-DDT	1.95	1.93		ug/L		99	70 - 130
Acenaphthene	1.95	1.90		ug/L		98	70 - 130
Acenaphthylene	1.95	1.98		ug/L		101	70 - 130
Acetochlor	1.95	2.00		ug/L		102	70 - 130
Alachlor	1.95	2.09		ug/L		107	70 - 130
alpha-BHC	1.95	2.12		ug/L		109	70 - 130
alpha-Chlordane	1.95	1.81		ug/L		93	70 - 130
Anthracene	1.95	2.15		ug/L		110	70 - 130
Atrazine	1.95	1.91		ug/L		98	70 - 130
Benz(a)anthracene	1.95	1.89		ug/L		97	70 - 130
Benzo[a]pyrene	1.95	1.95		ug/L		100	70 - 130
Benzo[b]fluoranthene	1.95	1.84		ug/L		94	70 - 130
Benzo[g,h,i]perylene	1.95	1.96		ug/L		101	70 - 130
Benzo[k]fluoranthene	1.95	1.71		ug/L		87	70 - 130
beta-BHC	1.95	2.08		ug/L		106	70 - 130
Bis(2-ethylhexyl) phthalate	1.95	2.01		ug/L		103	70 - 130
Bromacil	1.95	1.81		ug/L		93	70 - 130
Butachlor	1.95	2.19		ug/L		112	70 - 130
Butylbenzylphthalate	1.95	2.14		ug/L		110	70 - 130
Chlorobenzilate	1.95	2.04		ug/L		104	70 - 130
Chloroneb	1.95	2.04		ug/L		105	70 - 130
Chlorothalonil (Draconil, Bravo)	1.95	2.04		ug/L		104	70 - 130
Chlorpyrifos	1.95	1.78		ug/L		91	70 - 130
Chrysene	1.95	1.57		ug/L		80	70 - 130
delta-BHC	1.95	2.16		ug/L		111	70 - 130
Di(2-ethylhexyl)adipate	1.95	2.30		ug/L		118	70 - 130
Dibenz(a,h)anthracene	1.95	2.01		ug/L		103	70 - 130
Diclorvos (DDVP)	1.95	1.98		ug/L		102	70 - 130
Dieldrin	1.95	1.95		ug/L		100	70 - 130
Diethylphthalate	1.95	2.09		ug/L		107	70 - 130
Dimethylphthalate	1.95	2.14		ug/L		110	70 - 130
Di-n-butyl phthalate	3.90	3.99		ug/L		102	70 - 130
Di-n-octyl phthalate	1.95	1.98		ug/L		102	70 - 130
Endosulfan I (Alpha)	1.95	1.90		ug/L		98	70 - 130
Endosulfan II (Beta)	1.95	2.13		ug/L		109	70 - 130
Endosulfan sulfate	1.95	2.02		ug/L		104	70 - 130
Endrin	1.95	2.03		ug/L		104	70 - 130
Endrin aldehyde	1.95	2.08		ug/L		107	60 - 130
EPTC	1.95	2.21		ug/L		113	70 - 130
Fluoranthene	1.95	2.06		ug/L		106	70 - 130
Fluorene	1.95	2.04		ug/L		105	70 - 130

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# QC Sample Results

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

Job ID: 380-188302-1  
SDG: Weekly: Aiea Gulch Wells Pump 2

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

**Lab Sample ID: LCS 380-194295/21-A**

**Matrix: Water**

**Analysis Batch: 194631**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 194295**

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec Limits
	Added	Result	Qualifier				
gamma-Chlordane	1.95	1.84		ug/L		94	70 - 130
Heptachlor	1.95	2.07		ug/L		106	70 - 130
Heptachlor epoxide (isomer B)	1.95	1.99		ug/L		102	70 - 130
Hexachlorobenzene	1.95	2.06		ug/L		105	70 - 130
Hexachlorocyclopentadiene	1.95	1.77		ug/L		91	70 - 130
Indeno[1,2,3-cd]pyrene	1.95	2.14		ug/L		110	70 - 130
Isophorone	1.95	1.86		ug/L		95	70 - 130
Lindane	1.95	1.99		ug/L		102	70 - 130
Malathion	1.95	2.06		ug/L		106	70 - 130
Methoxychlor	1.95	1.93		ug/L		99	70 - 130
Metolachlor	1.95	2.14		ug/L		110	70 - 130
Molinate	1.95	2.07		ug/L		106	70 - 130
Naphthalene	1.95	1.86		ug/L		95	70 - 130
Parathion	1.95	2.07		ug/L		106	70 - 130
Pendimethalin (Penoxaline)	1.95	1.94		ug/L		100	70 - 130
Phenanthrene	1.95	1.95		ug/L		100	70 - 130
Propachlor	1.95	2.03		ug/L		104	70 - 130
Pyrene	1.95	1.88		ug/L		97	70 - 130
Simazine	1.95	1.87		ug/L		96	70 - 130
Terbacil	1.95	1.86		ug/L		95	70 - 130
Terbutylazine	1.95	2.11		ug/L		108	70 - 130
Thiobencarb	1.95	1.95		ug/L		100	70 - 130
trans-Nonachlor	1.95	1.78		ug/L		91	70 - 130
Trifluralin	1.95	1.91		ug/L		98	70 - 130

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
2-Nitro-m-xylene	99		70 - 130
Perylene-d12	100		70 - 130
Triphenylphosphate	110		70 - 130

**Lab Sample ID: MRL 380-194295/23-A**

**Matrix: Water**

**Analysis Batch: 194631**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 194295**

Analyte	Spike	MRL	MRL	Unit	D	%Rec	%Rec Limits
	Added	Result	Qualifier				
1-Methylnaphthalene	0.0973	0.105		ug/L		108	50 - 150
2,4'-DDD	0.0973	0.0966	J	ug/L		99	50 - 150
2,4'-DDE	0.0973	0.101		ug/L		103	50 - 150
2,4'-DDT	0.0973	0.115		ug/L		118	50 - 150
2,4-Dinitrotoluene	0.0973	0.125		ug/L		129	50 - 150
2,6-Dinitrotoluene	0.0973	0.136		ug/L		140	50 - 150
2-Methylnaphthalene	0.0973	0.0994		ug/L		102	50 - 150
4,4'-DDD	0.0973	0.121		ug/L		125	50 - 150
4,4'-DDE	0.0973	0.105		ug/L		108	50 - 150
4,4'-DDT	0.0973	0.122		ug/L		126	50 - 150
Acenaphthene	0.0973	0.0942	J	ug/L		97	50 - 150
Acenaphthylene	0.0973	0.0930	J	ug/L		96	50 - 150
Acetochlor	0.0973	0.121		ug/L		125	50 - 150

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# QC Sample Results

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

Job ID: 380-188302-1  
SDG: Weekly: Aiea Gulch Wells Pump 2

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

Lab Sample ID: MRL 380-194295/23-A

Matrix: Water

Analysis Batch: 194631

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 194295

Analyte	Spike	MRL	MRL	Unit	D	%Rec	%Rec Limits
	Added	Result	Qualifier				
Alachlor	0.0486	0.0607		ug/L		125	50 - 150
alpha-BHC	0.0973	0.109		ug/L		112	50 - 150
alpha-Chlordane	0.0243	0.0291	J	ug/L		120	50 - 150
Anthracene	0.0195	0.0217		ug/L		111	50 - 150
Atrazine	0.0486	0.0666		ug/L		137	50 - 150
Benz(a)anthracene	0.0486	0.0592		ug/L		122	50 - 150
Benzo[a]pyrene	0.0195	0.0251		ug/L		129	50 - 150
Benzo[b]fluoranthene	0.0195	0.0248		ug/L		128	50 - 150
Benzo[g,h,i]perylene	0.0486	0.0483	J	ug/L		99	50 - 150
Benzo[k]fluoranthene	0.0195	0.0231		ug/L		119	50 - 150
beta-BHC	0.0973	0.118		ug/L		121	50 - 150
Bis(2-ethylhexyl) phthalate	0.584	0.676		ug/L		116	50 - 150
Bromacil	0.0973	0.126		ug/L		130	50 - 150
Butachlor	0.0486	0.0629		ug/L		129	50 - 150
Butylbenzylphthalate	0.486	0.583		ug/L		120	50 - 150
Chlorobenzilate	0.0973	0.115		ug/L		118	50 - 150
Chloroneb	0.0973	0.110		ug/L		113	50 - 150
Chlorothalonil (Draconil, Bravo)	0.0973	0.139		ug/L		143	50 - 150
Chlorpyrifos	0.0486	0.0583		ug/L		120	50 - 150
Chrysene	0.0195	0.0225		ug/L		116	50 - 150
delta-BHC	0.0973	0.108		ug/L		111	50 - 150
Di(2-ethylhexyl)adipate	0.584	0.791		ug/L		135	50 - 150
Dibenz(a,h)anthracene	0.0486	0.0517		ug/L		106	50 - 150
Diclorvos (DDVP)	0.0486	0.0566		ug/L		116	50 - 150
Dieldrin	0.00973	0.00930	J	ug/L		96	50 - 150
Diethylphthalate	0.486	0.543		ug/L		112	50 - 150
Dimethylphthalate	0.486	0.518		ug/L		106	50 - 150
Di-n-butyl phthalate	0.486	0.522	J	ug/L		107	49 - 243
Di-n-octyl phthalate	0.0973	0.109		ug/L		112	50 - 150
Endosulfan I (Alpha)	0.0973	0.0997		ug/L		102	50 - 150
Endosulfan II (Beta)	0.0973	0.127		ug/L		131	50 - 150
Endosulfan sulfate	0.0973	0.109		ug/L		112	50 - 150
Endrin	0.00973	0.0108		ug/L		111	50 - 150
Endrin aldehyde	0.0973	0.119		ug/L		123	50 - 150
EPTC	0.0973	0.104		ug/L		107	50 - 150
Fluoranthene	0.0973	0.105		ug/L		108	50 - 150
Fluorene	0.0486	0.0496		ug/L		102	50 - 150
gamma-Chlordane	0.0243	0.0301	J	ug/L		124	50 - 150
Heptachlor	0.00973	0.0127		ug/L		130	50 - 150
Heptachlor epoxide (isomer B)	0.00973	0.0162	^3+	ug/L		167	50 - 150
Hexachlorobenzene	0.0486	0.0443	J	ug/L		91	50 - 150
Hexachlorocyclopentadiene	0.0486	0.0412	J	ug/L		85	50 - 150
Indeno[1,2,3-cd]pyrene	0.0486	0.0538		ug/L		111	50 - 150
Isophorone	0.0973	0.108		ug/L		111	50 - 150
Lindane	0.00973	0.00855	J	ug/L		88	50 - 150
Malathion	0.0973	0.111		ug/L		114	50 - 150
Methoxychlor	0.0486	0.0608		ug/L		125	50 - 150
Metolachlor	0.0486	0.0591		ug/L		121	50 - 150
Molinate	0.0973	0.130		ug/L		133	50 - 150

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# QC Sample Results

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

Job ID: 380-188302-1  
SDG: Weekly: Aiea Gulch Wells Pump 2

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

Lab Sample ID: MRL 380-194295/23-A

Matrix: Water

Analysis Batch: 194631

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 194295

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Naphthalene	0.0973	0.0960	J	ug/L		99	50 - 150
Parathion	0.0973	0.103		ug/L		106	50 - 150
Pendimethalin (Penoxaline)	0.0973	0.105		ug/L		108	50 - 150
Phenanthrene	0.0389	0.0435		ug/L		112	50 - 150
Propachlor	0.0486	0.0581		ug/L		120	50 - 150
Pyrene	0.0486	0.0581		ug/L		119	50 - 150
Simazine	0.0486	0.0556		ug/L		114	50 - 150
Terbacil	0.0973	0.113		ug/L		117	50 - 150
Terbutylazine	0.0973	0.111		ug/L		114	50 - 150
Thiobencarb	0.0973	0.122		ug/L		126	50 - 150
trans-Nonachlor	0.0243	0.0295	J	ug/L		121	50 - 150
Trifluralin	0.0973	0.104		ug/L		107	50 - 150

Surrogate	MRL %Recovery	MRL Qualifier	Limits
2-Nitro-m-xylene	97		70 - 130
Perylene-d12	91		70 - 130
Triphenylphosphate	105		70 - 130

Lab Sample ID: 380-188756-AJ-1-A MS

Matrix: Water

Analysis Batch: 194631

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 194295

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	<0.097		1.95	1.95		ug/L		100	70 - 130
2,4'-DDD	<0.097		1.95	1.83		ug/L		94	70 - 130
2,4'-DDE	<0.097		1.95	1.91		ug/L		98	70 - 130
2,4'-DDT	<0.097		1.95	1.75		ug/L		90	70 - 130
2,4-Dinitrotoluene	<0.097		1.95	2.16		ug/L		111	70 - 130
2,6-Dinitrotoluene	<0.097		1.95	2.00		ug/L		103	70 - 130
2-Methylnaphthalene	<0.097		1.95	1.98		ug/L		102	70 - 130
4,4'-DDD	<0.097		1.95	1.84		ug/L		95	70 - 130
4,4'-DDE	<0.097		1.95	1.82		ug/L		93	70 - 130
4,4'-DDT	<0.097		1.95	1.74		ug/L		89	70 - 130
Acenaphthene	<0.097		1.95	1.98		ug/L		102	70 - 130
Acenaphthylene	<0.097		1.95	2.11		ug/L		108	70 - 130
Acetochlor	<0.097		1.95	2.04		ug/L		105	70 - 130
Alachlor	<0.049		1.95	2.15		ug/L		110	70 - 130
alpha-BHC	<0.097		1.95	2.14		ug/L		110	70 - 130
alpha-Chlordane	<0.049		1.95	1.77		ug/L		91	70 - 130
Anthracene	<0.019		1.95	1.73		ug/L		89	70 - 130
Atrazine	<0.049		1.95	2.01		ug/L		103	70 - 130
Benz(a)anthracene	<0.049		1.95	1.75		ug/L		90	70 - 130
Benzo[a]pyrene	<0.019		1.95	1.90		ug/L		98	70 - 130
Benzo[b]fluoranthene	<0.019		1.95	2.09		ug/L		107	70 - 130
Benzo[g,h,i]perylene	<0.049		1.95	2.01		ug/L		103	70 - 130
Benzo[k]fluoranthene	<0.019		1.95	1.81		ug/L		93	70 - 130
beta-BHC	<0.097		1.95	2.11		ug/L		108	70 - 130
Bis(2-ethylhexyl) phthalate	<0.58		1.95	1.89		ug/L		97	70 - 130

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# QC Sample Results

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

Job ID: 380-188302-1  
SDG: Weekly: Aiea Gulch Wells Pump 2

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

**Lab Sample ID: 380-188756-AJ-1-A MS**

**Client Sample ID: Matrix Spike**

**Matrix: Water**

**Prep Type: Total/NA**

**Analysis Batch: 194631**

**Prep Batch: 194295**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier	Added	Result	Qualifier				
Bromacil	<0.097		1.95	2.01		ug/L		103	70 - 130
Butachlor	<0.049		1.95	2.27		ug/L		117	70 - 130
Butylbenzylphthalate	<0.49		1.95	2.24		ug/L		115	70 - 130
Chlorobenzilate	<0.097		1.95	2.10		ug/L		108	70 - 130
Chloroneb	<0.097		1.95	2.08		ug/L		107	70 - 130
Chlorothalonil (Draconil, Bravo)	<0.097		1.95	2.13		ug/L		109	70 - 130
Chlorpyrifos	<0.049		1.95	1.80		ug/L		92	70 - 130
Chrysene	<0.019		1.95	1.78		ug/L		91	70 - 130
delta-BHC	<0.097		1.95	2.19		ug/L		112	70 - 130
Di(2-ethylhexyl)adipate	<0.58		1.95	1.88		ug/L		97	70 - 130
Dibenz(a,h)anthracene	<0.049		1.95	2.04		ug/L		105	70 - 130
Diclorvos (DDVP)	<0.049		1.95	2.12		ug/L		109	70 - 130
Dieldrin	<0.0097		1.95	1.99		ug/L		102	70 - 130
Diethylphthalate	<0.49		1.95	2.14		ug/L		110	70 - 130
Dimethylphthalate	<0.49		1.95	2.17		ug/L		112	70 - 130
Di-n-butyl phthalate	<0.97		3.89	4.09		ug/L		105	70 - 130
Di-n-octyl phthalate	<0.097		1.95	1.79		ug/L		92	70 - 130
Endosulfan I (Alpha)	<0.097		1.95	1.93		ug/L		99	70 - 130
Endosulfan II (Beta)	<0.097		1.95	2.18		ug/L		112	70 - 130
Endosulfan sulfate	<0.097		1.95	2.06		ug/L		106	70 - 130
Endrin	<0.0097		1.95	2.08		ug/L		107	70 - 130
Endrin aldehyde	<0.097		1.95	1.57		ug/L		81	60 - 130
EPTC	<0.097		1.95	2.25		ug/L		115	70 - 130
Fluoranthene	<0.097		1.95	2.12		ug/L		109	70 - 130
Fluorene	<0.049		1.95	2.11		ug/L		109	70 - 130
gamma-Chlordane	<0.049		1.95	1.77		ug/L		91	70 - 130
Heptachlor	<0.0097		1.95	2.17		ug/L		111	70 - 130
Heptachlor epoxide (isomer B)	<0.0097	^3+	1.95	2.00		ug/L		103	70 - 130
Hexachlorobenzene	<0.049		1.95	2.13		ug/L		110	70 - 130
Hexachlorocyclopentadiene	<0.049		1.95	1.84		ug/L		94	70 - 130
Indeno[1,2,3-cd]pyrene	<0.049		1.95	2.17		ug/L		112	70 - 130
Isophorone	<0.097		1.95	1.92		ug/L		99	70 - 130
Lindane	<0.0097		1.95	2.07		ug/L		106	70 - 130
Malathion	<0.097		1.95	2.08		ug/L		107	70 - 130
Methoxychlor	<0.049		1.95	2.39		ug/L		123	70 - 130
Metolachlor	<0.049		1.95	2.19		ug/L		112	70 - 130
Molinate	<0.097		1.95	2.11		ug/L		108	70 - 130
Naphthalene	<0.097		1.95	1.92		ug/L		99	70 - 130
Parathion	<0.097		1.95	2.13		ug/L		110	70 - 130
Pendimethalin (Penoxaline)	<0.097		1.95	2.02		ug/L		104	70 - 130
Phenanthrene	<0.039		1.95	2.01		ug/L		103	70 - 130
Propachlor	<0.049		1.95	2.06		ug/L		106	70 - 130
Pyrene	<0.049		1.95	1.93		ug/L		99	70 - 130
Simazine	<0.049		1.95	1.96		ug/L		100	70 - 130
Terbacil	<0.097		1.95	2.08		ug/L		107	70 - 130
Terbuthylazine	<0.097		1.95	2.15		ug/L		111	70 - 130
Thiobencarb	<0.097		1.95	2.03		ug/L		104	70 - 130
trans-Nonachlor	<0.049		1.95	1.69		ug/L		87	70 - 130
Trifluralin	<0.097		1.95	2.01		ug/L		103	70 - 130

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# QC Sample Results

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

Job ID: 380-188302-1  
SDG: Weekly: Aiea Gulch Wells Pump 2

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

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
2-Nitro- <i>m</i> -xylene	98		70 - 130
Perylene- <i>d</i> 12	101		70 - 130
Triphenylphosphate	106		70 - 130

**Lab Sample ID: 810-176101-P-1-A DU**  
**Matrix: Water**  
**Analysis Batch: 194631**

**Client Sample ID: Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 194295**

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
1-Methylnaphthalene	<0.10		<0.10		ug/L		NC	20
2,4'-DDD	<0.10		<0.10		ug/L		NC	20
2,4'-DDE	<0.10		<0.10		ug/L		NC	20
2,4'-DDT	<0.10		<0.10		ug/L		NC	20
2,4-Dinitrotoluene	<0.10		<0.10		ug/L		NC	20
2,6-Dinitrotoluene	<0.10		<0.10		ug/L		NC	20
2-Methylnaphthalene	<0.10		<0.10		ug/L		NC	20
4,4'-DDD	<0.10		<0.10		ug/L		NC	20
4,4'-DDE	<0.10		<0.10		ug/L		NC	20
4,4'-DDT	<0.10		<0.10		ug/L		NC	20
Acenaphthene	<0.10		<0.10		ug/L		NC	20
Acenaphthylene	<0.10		<0.10		ug/L		NC	20
Acetochlor	<0.10		<0.10		ug/L		NC	20
Alachlor	<0.050		<0.050		ug/L		NC	20
alpha-BHC	<0.10		<0.10		ug/L		NC	20
alpha-Chlordane	<0.050		<0.050		ug/L		NC	20
Anthracene	<0.020		<0.020		ug/L		NC	20
Atrazine	<0.050		<0.050		ug/L		NC	20
Benz(a)anthracene	<0.050		<0.050		ug/L		NC	20
Benzo[a]pyrene	<0.020		<0.020		ug/L		NC	20
Benzo[b]fluoranthene	<0.020		<0.020		ug/L		NC	20
Benzo[g,h,i]perylene	<0.050		<0.050		ug/L		NC	20
Benzo[k]fluoranthene	<0.020		<0.020		ug/L		NC	20
beta-BHC	<0.10		<0.10		ug/L		NC	20
Bis(2-ethylhexyl) phthalate	<0.60		<0.60		ug/L		NC	20
Bromacil	<0.10		<0.10		ug/L		NC	20
Butachlor	<0.050		<0.050		ug/L		NC	20
Butylbenzylphthalate	<0.50		<0.50		ug/L		NC	20
Chlorobenzilate	<0.10		<0.10		ug/L		NC	20
Chloroneb	<0.10		<0.10		ug/L		NC	20
Chlorothalonil (Draconil, Bravo)	<0.10		<0.10		ug/L		NC	20
Chlorpyrifos	<0.050		<0.050		ug/L		NC	20
Chrysene	<0.020		<0.020		ug/L		NC	20
delta-BHC	<0.10		<0.10		ug/L		NC	20
Di(2-ethylhexyl)adipate	<0.60		<0.60		ug/L		NC	20
Dibenz(a,h)anthracene	<0.050		<0.050		ug/L		NC	20
Diclorvos (DDVP)	<0.050		<0.050		ug/L		NC	20
Dieldrin	<0.010		<0.010		ug/L		NC	20
Diethylphthalate	<0.50		<0.50		ug/L		NC	20
Dimethylphthalate	<0.50		<0.50		ug/L		NC	20
Di-n-butyl phthalate	<1.0		<1.0		ug/L		NC	20
Di-n-octyl phthalate	<0.10		<0.10		ug/L		NC	20

# QC Sample Results

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

Job ID: 380-188302-1  
SDG: Weekly: Aiea Gulch Wells Pump 2

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

Lab Sample ID: 810-176101-P-1-A DU  
Matrix: Water  
Analysis Batch: 194631

Client Sample ID: Duplicate  
Prep Type: Total/NA  
Prep Batch: 194295

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Endosulfan I (Alpha)	<0.10		<0.10		ug/L		NC	20
Endosulfan II (Beta)	<0.10		<0.10		ug/L		NC	20
Endosulfan sulfate	<0.10		<0.10		ug/L		NC	20
Endrin	<0.010		<0.010		ug/L		NC	20
Endrin aldehyde	<0.10		<0.10		ug/L		NC	20
EPTC	<0.10		<0.10		ug/L		NC	20
Fluoranthene	<0.10		<0.10		ug/L		NC	20
Fluorene	<0.050		<0.050		ug/L		NC	20
gamma-Chlordane	<0.050		<0.050		ug/L		NC	20
Heptachlor	<0.010		<0.010		ug/L		NC	20
Heptachlor epoxide (isomer B)	<0.010	^3+	<0.010		ug/L		NC	20
Hexachlorobenzene	<0.050		<0.050		ug/L		NC	20
Hexachlorocyclopentadiene	<0.050		<0.050		ug/L		NC	20
Indeno[1,2,3-cd]pyrene	<0.050		<0.050		ug/L		NC	20
Isophorone	<0.10		<0.10		ug/L		NC	20
Lindane	<0.010		<0.010		ug/L		NC	20
Malathion	<0.10		<0.10		ug/L		NC	20
Methoxychlor	<0.050		<0.050		ug/L		NC	20
Metolachlor	<0.050		<0.050		ug/L		NC	20
Molinate	<0.10		<0.10		ug/L		NC	20
Naphthalene	<0.10		<0.10		ug/L		NC	20
Parathion	<0.10		<0.10		ug/L		NC	20
Pendimethalin (Penoxaline)	<0.10		<0.10		ug/L		NC	20
Phenanthrene	<0.040		<0.040		ug/L		NC	20
Propachlor	<0.050		<0.050		ug/L		NC	20
Pyrene	<0.050		<0.050		ug/L		NC	20
Simazine	<0.050		<0.050		ug/L		NC	20
Terbacil	<0.10		<0.10		ug/L		NC	20
Terbutylazine	<0.10		<0.10		ug/L		NC	20
Thiobencarb	<0.10		<0.10		ug/L		NC	20
Total Permethrin (mixed isomers)	<0.20		<0.20		ug/L		NC	20
trans-Nonachlor	<0.050		<0.050		ug/L		NC	20
Trifluralin	<0.10		<0.10		ug/L		NC	20

Surrogate	DU	DU	Limits
	%Recovery	Qualifier	
2-Nitro-m-xylene	98		70 - 130
Perylene-d12	92		70 - 130
Triphenylphosphate	108		70 - 130

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

Lab Sample ID: MB 570-671320/1-A  
Matrix: Water  
Analysis Batch: 676240

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 671320

Tentatively Identified Compound	MB	MB	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
	Est. Result	Qualifier							
Tentatively Identified Compound	None		ug/L			N/A	12/17/25 05:54	12/29/25 11:40	1

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# QC Sample Results

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

Job ID: 380-188302-1  
SDG: Weekly: Aiea Gulch Wells Pump 2

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

**Lab Sample ID: MB 570-671320/1-A**  
**Matrix: Water**  
**Analysis Batch: 676240**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 671320**

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2,4,6-Tribromophenol (Surr)	71		33 - 139	12/17/25 05:54	12/29/25 11:40	1
2-Fluorobiphenyl (Surr)	81		33 - 126	12/17/25 05:54	12/29/25 11:40	1
2-Fluorophenol (Surr)	58		12 - 120	12/17/25 05:54	12/29/25 11:40	1
Nitrobenzene-d5 (Surr)	83		36 - 120	12/17/25 05:54	12/29/25 11:40	1
Phenol-d6 (Surr)	32		10 - 120	12/17/25 05:54	12/29/25 11:40	1
p-Terphenyl-d14 (Surr)	82		47 - 131	12/17/25 05:54	12/29/25 11:40	1

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

**Lab Sample ID: MB 570-671320/1-A**  
**Matrix: Water**  
**Analysis Batch: 674350**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 671320**

Analyte	MB MB		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
1-Methylnaphthalene	<0.20		0.20	ug/L		12/17/25 05:54	12/23/25 12:24	1
2-Methylnaphthalene	<0.20		0.20	ug/L		12/17/25 05:54	12/23/25 12:24	1
Acenaphthene	<0.20		0.20	ug/L		12/17/25 05:54	12/23/25 12:24	1
Acenaphthylene	<0.20		0.20	ug/L		12/17/25 05:54	12/23/25 12:24	1
Anthracene	<0.20		0.20	ug/L		12/17/25 05:54	12/23/25 12:24	1
Benzo[a]anthracene	<0.20		0.20	ug/L		12/17/25 05:54	12/23/25 12:24	1
Benzo[a]pyrene	<0.20		0.20	ug/L		12/17/25 05:54	12/23/25 12:24	1
Benzo[b]fluoranthene	<0.20		0.20	ug/L		12/17/25 05:54	12/23/25 12:24	1
Benzo[g,h,i]perylene	<0.20		0.20	ug/L		12/17/25 05:54	12/23/25 12:24	1
Benzo[k]fluoranthene	<0.20		0.20	ug/L		12/17/25 05:54	12/23/25 12:24	1
Chrysene	<0.20		0.20	ug/L		12/17/25 05:54	12/23/25 12:24	1
Dibenz(a,h)anthracene	<0.20		0.20	ug/L		12/17/25 05:54	12/23/25 12:24	1
Fluoranthene	<0.20		0.20	ug/L		12/17/25 05:54	12/23/25 12:24	1
Fluorene	<0.20		0.20	ug/L		12/17/25 05:54	12/23/25 12:24	1
Indeno[1,2,3-cd]pyrene	<0.20		0.20	ug/L		12/17/25 05:54	12/23/25 12:24	1
Naphthalene	<0.20		0.20	ug/L		12/17/25 05:54	12/23/25 12:24	1
Phenanthrene	<0.20		0.20	ug/L		12/17/25 05:54	12/23/25 12:24	1
Pyrene	<0.20		0.20	ug/L		12/17/25 05:54	12/23/25 12:24	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2,4,6-Tribromophenol (Surr)	84		28 - 127	12/17/25 05:54	12/23/25 12:24	1
2-Fluorobiphenyl (Surr)	78		31 - 120	12/17/25 05:54	12/23/25 12:24	1
2-Fluorophenol (Surr)	52		17 - 120	12/17/25 05:54	12/23/25 12:24	1
Nitrobenzene-d5 (Surr)	76		27 - 120	12/17/25 05:54	12/23/25 12:24	1
Phenol-d6 (Surr)	33		10 - 120	12/17/25 05:54	12/23/25 12:24	1
p-Terphenyl-d14 (Surr)	73		45 - 120	12/17/25 05:54	12/23/25 12:24	1

**Lab Sample ID: LCS 570-671320/2-A**  
**Matrix: Water**  
**Analysis Batch: 674350**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 671320**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2-Methylnaphthalene	20.0	12.9		ug/L		65	43 - 120

# QC Sample Results

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

Job ID: 380-188302-1  
SDG: Weekly: Aiea Gulch Wells Pump 2

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

**Lab Sample ID: LCS 570-671320/2-A**

**Matrix: Water**

**Analysis Batch: 674350**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 671320**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	20.0	15.5		ug/L		77	60 - 132
Acenaphthylene	20.0	14.4		ug/L		72	54 - 126
Anthracene	20.0	16.0		ug/L		80	43 - 120
Benzo[a]anthracene	20.0	15.5		ug/L		78	42 - 133
Benzo[a]pyrene	20.0	16.7		ug/L		83	32 - 148
Benzo[b]fluoranthene	20.0	16.1		ug/L		80	42 - 140
Benzo[g,h,i]perylene	20.0	15.5		ug/L		78	1 - 195
Benzo[k]fluoranthene	20.0	15.9		ug/L		79	25 - 146
Chrysene	20.0	15.7		ug/L		78	44 - 140
Dibenz(a,h)anthracene	20.0	16.3		ug/L		82	1 - 200
Fluoranthene	20.0	16.3		ug/L		81	43 - 121
Fluorene	20.0	15.4		ug/L		77	70 - 120
Indeno[1,2,3-cd]pyrene	20.0	15.5		ug/L		77	1 - 151
Naphthalene	20.0	12.6		ug/L		63	36 - 120
Phenanthrene	20.0	15.7		ug/L		79	65 - 120
Pyrene	20.0	16.2		ug/L		81	70 - 120

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	75		28 - 127
2-Fluorobiphenyl (Surr)	73		31 - 120
2-Fluorophenol (Surr)	58		17 - 120
Nitrobenzene-d5 (Surr)	63		27 - 120
Phenol-d6 (Surr)	38		10 - 120
p-Terphenyl-d14 (Surr)	77		45 - 120

**Lab Sample ID: LCSD 570-671320/3-A**

**Matrix: Water**

**Analysis Batch: 674350**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

**Prep Batch: 671320**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	
								RPD	Limit
1-Methylnaphthalene	20.0	14.8		ug/L		74	47 - 120	11	20
2-Methylnaphthalene	20.0	14.6		ug/L		73	43 - 120	12	20
Acenaphthene	20.0	17.8		ug/L		89	60 - 132	14	29
Acenaphthylene	20.0	17.0		ug/L		85	54 - 126	17	45
Anthracene	20.0	18.3		ug/L		91	43 - 120	14	40
Benzo[a]anthracene	20.0	17.3		ug/L		87	42 - 133	11	32
Benzo[a]pyrene	20.0	18.9		ug/L		94	32 - 148	12	43
Benzo[b]fluoranthene	20.0	18.4		ug/L		92	42 - 140	14	43
Benzo[g,h,i]perylene	20.0	17.4		ug/L		87	1 - 195	11	61
Benzo[k]fluoranthene	20.0	18.4		ug/L		92	25 - 146	14	38
Chrysene	20.0	17.5		ug/L		88	44 - 140	11	53
Dibenz(a,h)anthracene	20.0	17.7		ug/L		89	1 - 200	8	75
Fluoranthene	20.0	18.7		ug/L		93	43 - 121	14	40
Fluorene	20.0	17.5		ug/L		87	70 - 120	12	23
Indeno[1,2,3-cd]pyrene	20.0	17.6		ug/L		88	1 - 151	13	60
Naphthalene	20.0	14.2		ug/L		71	36 - 120	12	39
Phenanthrene	20.0	18.0		ug/L		90	65 - 120	14	24
Pyrene	20.0	18.1		ug/L		91	70 - 120	11	30

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# QC Sample Results

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

Job ID: 380-188302-1  
SDG: Weekly: Aiea Gulch Wells Pump 2

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

**Lab Sample ID: LCSD 570-671320/3-A**  
**Matrix: Water**  
**Analysis Batch: 674350**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 671320**

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	84		28 - 127
2-Fluorobiphenyl (Surr)	85		31 - 120
2-Fluorophenol (Surr)	63		17 - 120
Nitrobenzene-d5 (Surr)	71		27 - 120
Phenol d6 (Surr)	41		10 - 120
p-Terphenyl-d14 (Surr)	83		45 - 120

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

**Lab Sample ID: MB 570-675780/12**  
**Matrix: Water**  
**Analysis Batch: 675780**

**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			12/27/25 15:53	1

  

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	100		38 - 134		12/27/25 15:53	1

**Lab Sample ID: LCS 570-675780/1010**  
**Matrix: Water**  
**Analysis Batch: 675780**

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

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Gasoline Range Organics (C4-C13)	400	389		ug/L		97	78 - 120

  

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	101		38 - 134

**Lab Sample ID: LCSD 570-675780/11**  
**Matrix: Water**  
**Analysis Batch: 675780**

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

Analyte	Spike Added	LCSD LCSD		Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
		Result	Qualifier						
Gasoline Range Organics (C4-C13)	400	392		ug/L		98	78 - 120	1	10

  

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

**Lab Sample ID: MRL 570-675780/1005**  
**Matrix: Water**  
**Analysis Batch: 675780**

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

Analyte	Spike Added	MRL MRL		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Gasoline Range Organics (C4-C13)	10.0	11.6		ug/L		116	50 - 150

# QC Sample Results

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

Job ID: 380-188302-1  
SDG: Weekly: Aiea Gulch Wells Pump 2

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

**Lab Sample ID: MRL 570-675780/1005**  
**Matrix: Water**  
**Analysis Batch: 675780**

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

	MRL	MRL	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	93		38 - 134

**Lab Sample ID: 380-188308-C-1 MS**  
**Matrix: Water**  
**Analysis Batch: 675780**

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

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier					
Gasoline Range Organics (C4-C13)	<10		400	413		ug/L		103		68 - 122
Surrogate	MS	MS								
4-Bromofluorobenzene (Surr)	%Recovery	Qualifier	Limits							
	104		38 - 134							

**Lab Sample ID: 380-188308-C-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 675780**

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

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	Limits	RPD	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier								
Gasoline Range Organics (C4-C13)	<10		400	401		ug/L		100		68 - 122	3	18	
Surrogate	MSD	MSD											
4-Bromofluorobenzene (Surr)	%Recovery	Qualifier	Limits										
	95		38 - 134										

**Lab Sample ID: MB 570-675935/6**  
**Matrix: Water**  
**Analysis Batch: 675935**

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

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
GRO (C6-C10)	<10		10	ug/L			12/28/25 12:55	1
Surrogate	MB	MB						
4-Bromofluorobenzene (Surr)	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
	101		38 - 134				12/28/25 12:55	1

**Lab Sample ID: LCS 570-675935/4**  
**Matrix: Water**  
**Analysis Batch: 675935**

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

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec	Limits
		Result	Qualifier					
Gasoline Range Organics (C4-C13)	400	389		ug/L		97		78 - 120
Surrogate	LCS	LCS						
4-Bromofluorobenzene (Surr)	%Recovery	Qualifier	Limits					
	100		38 - 134					

# QC Sample Results

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

Job ID: 380-188302-1  
SDG: Weekly: Aiea Gulch Wells Pump 2

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

**Lab Sample ID: LCSD 570-675935/5**  
**Matrix: Water**  
**Analysis Batch: 675935**

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Gasoline Range Organics (C4-C13)	400	396		ug/L		99	78 - 120	2	10
<b>Surrogate</b>		<b>LCSD %Recovery</b>	<b>LCSD Qualifier</b>				<b>Limits</b>		
4-Bromofluorobenzene (Surr)		105					38 - 134		

**Lab Sample ID: MRL 570-675935/3**  
**Matrix: Water**  
**Analysis Batch: 675935**

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Gasoline Range Organics (C4-C13)	10.0	11.9		ug/L		119	50 - 150		
<b>Surrogate</b>		<b>MRL %Recovery</b>	<b>MRL Qualifier</b>				<b>Limits</b>		
4-Bromofluorobenzene (Surr)		93					38 - 134		

**Lab Sample ID: 380-189454-B-1 MS**  
**Matrix: Water**  
**Analysis Batch: 675935**

**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	RPD	Limit
Gasoline Range Organics (C4-C13)	<10		400	398		ug/L		99	68 - 122		
<b>Surrogate</b>		<b>MS %Recovery</b>		<b>MS Qualifier</b>					<b>Limits</b>		
4-Bromofluorobenzene (Surr)		101							38 - 134		

**Lab Sample ID: 380-189454-B-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 675935**

**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	Limit
Gasoline Range Organics (C4-C13)	<10		400	380		ug/L		95	68 - 122	5	18
<b>Surrogate</b>		<b>MSD %Recovery</b>		<b>MSD Qualifier</b>					<b>Limits</b>		
4-Bromofluorobenzene (Surr)		101							38 - 134		

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

**Lab Sample ID: MB 570-671434/1-A**  
**Matrix: Water**  
**Analysis Batch: 671882**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 671434**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	<25		25	ug/L		12/17/25 09:06	12/18/25 07:05	1
Motor Oil Range Organics [C24-C36]	<25		25	ug/L		12/17/25 09:06	12/18/25 07:05	1
C8-C18	<25		25	ug/L		12/17/25 09:06	12/18/25 07:05	1

Eurofins Pomona

# QC Sample Results

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

Job ID: 380-188302-1  
SDG: Weekly: Aiea Gulch Wells Pump 2

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

Surrogate	MB MB %Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	109		60 - 130	12/17/25 09:06	12/18/25 07:05	1

**Lab Sample ID: LCS 570-671434/2-A**  
**Matrix: Water**  
**Analysis Batch: 671882**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 671434**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
C10-C28	1600	1370		ug/L		86	56 - 127

Surrogate	LCS LCS %Recovery	Qualifier	Limits
n-Octacosane (Surr)	105		60 - 130

**Lab Sample ID: LCSD 570-671434/3-A**  
**Matrix: Water**  
**Analysis Batch: 671882**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 671434**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD Limit
C10-C28	1600	1250		ug/L		78	56 - 127	10 23

Surrogate	LCSD LCSD %Recovery	Qualifier	Limits
n-Octacosane (Surr)	99		60 - 130

**Lab Sample ID: MRL 570-671434/4-A**  
**Matrix: Water**  
**Analysis Batch: 679225**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 671434**

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
C10-C28	0.0200	0.0218	J	mg/L		109	50 - 150

Surrogate	MRL MRL %Recovery	Qualifier	Limits
n-Octacosane (Surr)	111		60 - 130

**Lab Sample ID: 380-188308-B-1-A MS**  
**Matrix: Water**  
**Analysis Batch: 679225**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**  
**Prep Batch: 671434**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
C10-C28	<26		2080	1490		ug/L		72	70 - 130

Surrogate	MS MS %Recovery	Qualifier	Limits
n-Octacosane (Surr)	129		60 - 130

**Lab Sample ID: 380-188308-B-1-B MSD**  
**Matrix: Water**  
**Analysis Batch: 679225**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 671434**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD Limit
C10-C28	<26		2060	1620		ug/L		79	70 - 130	8 20

# QC Sample Results

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

Job ID: 380-188302-1  
SDG: Weekly: Aiea Gulch Wells Pump 2

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

Lab Sample ID: 380-188308-B-1-B MSD

Matrix: Water

Analysis Batch: 679225

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 671434

<i>Surrogate</i>	<i>MSD</i>	<i>MSD</i>	<i>Limits</i>
	<i>%Recovery</i>	<i>Qualifier</i>	
<i>n-Octacosane (Surr)</i>	121		60 - 130

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# QC Association Summary

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

Job ID: 380-188302-1  
 SDG: Weekly: Aiea Gulch Wells Pump 2

## GC/MS Semi VOA

### Prep Batch: 194295

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-188302-1	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	525.2	
MB 380-194295/22-A	Method Blank	Total/NA	Water	525.2	
LCS 380-194295/21-A	Lab Control Sample	Total/NA	Water	525.2	
MRL 380-194295/23-A	Lab Control Sample	Total/NA	Water	525.2	
380-188756-AJ-1-A MS	Matrix Spike	Total/NA	Water	525.2	
810-176101-P-1-A DU	Duplicate	Total/NA	Water	525.2	

### Analysis Batch: 194631

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-188302-1	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	525.2	194295
MB 380-194295/22-A	Method Blank	Total/NA	Water	525.2	194295
LCS 380-194295/21-A	Lab Control Sample	Total/NA	Water	525.2	194295
MRL 380-194295/23-A	Lab Control Sample	Total/NA	Water	525.2	194295
380-188756-AJ-1-A MS	Matrix Spike	Total/NA	Water	525.2	194295
810-176101-P-1-A DU	Duplicate	Total/NA	Water	525.2	194295

### Prep Batch: 671320

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-188302-1	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	625.1	
MB 570-671320/1-A	Method Blank	Total/NA	Water	625.1	
LCS 570-671320/2-A	Lab Control Sample	Total/NA	Water	625.1	
LCSD 570-671320/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	

### Analysis Batch: 674350

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-671320/1-A	Method Blank	Total/NA	Water	625.1 SIM	671320
LCS 570-671320/2-A	Lab Control Sample	Total/NA	Water	625.1 SIM	671320
LCSD 570-671320/3-A	Lab Control Sample Dup	Total/NA	Water	625.1 SIM	671320

### Analysis Batch: 675313

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-188302-1	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	625.1 SIM	671320

### Analysis Batch: 676240

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-188302-1	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	625.1	671320
MB 570-671320/1-A	Method Blank	Total/NA	Water	625.1	671320

## GC VOA

### Analysis Batch: 675780

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-188302-2	TB: Aiea Gulch Wells Pump 2	Total/NA	Water	8015B GRO LL	
MB 570-675780/12	Method Blank	Total/NA	Water	8015B GRO LL	
LCS 570-675780/1010	Lab Control Sample	Total/NA	Water	8015B GRO LL	
LCSD 570-675780/11	Lab Control Sample Dup	Total/NA	Water	8015B GRO LL	
MRL 570-675780/1005	Lab Control Sample	Total/NA	Water	8015B GRO LL	
380-188308-C-1 MS	Matrix Spike	Total/NA	Water	8015B GRO LL	
380-188308-C-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8015B GRO LL	

# QC Association Summary

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

Job ID: 380-188302-1  
SDG: Weekly: Aiea Gulch Wells Pump 2

## GC VOA

### Analysis Batch: 675935

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-188302-1	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	8015B GRO LL	
MB 570-675935/6	Method Blank	Total/NA	Water	8015B GRO LL	
LCS 570-675935/4	Lab Control Sample	Total/NA	Water	8015B GRO LL	
LCSD 570-675935/5	Lab Control Sample Dup	Total/NA	Water	8015B GRO LL	
MRL 570-675935/3	Lab Control Sample	Total/NA	Water	8015B GRO LL	
380-189454-B-1 MS	Matrix Spike	Total/NA	Water	8015B GRO LL	
380-189454-B-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8015B GRO LL	

## GC Semi VOA

### Prep Batch: 671434

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-188302-1 - RA	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	3510C	
MB 570-671434/1-A	Method Blank	Total/NA	Water	3510C	
LCS 570-671434/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 570-671434/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MRL 570-671434/4-A	Lab Control Sample	Total/NA	Water	3510C	
380-188308-B-1-A MS	Matrix Spike	Total/NA	Water	3510C	
380-188308-B-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	3510C	

### Analysis Batch: 671882

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-671434/1-A	Method Blank	Total/NA	Water	8015B	671434
LCS 570-671434/2-A	Lab Control Sample	Total/NA	Water	8015B	671434
LCSD 570-671434/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	671434

### Analysis Batch: 679225

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-188302-1 - RA	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	8015B	671434
MRL 570-671434/4-A	Lab Control Sample	Total/NA	Water	8015B	671434
380-188308-B-1-A MS	Matrix Spike	Total/NA	Water	8015B	671434
380-188308-B-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	8015B	671434

## Lab Chronicle

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

Job ID: 380-188302-1  
SDG: Weekly: Aiea Gulch Wells Pump 2

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

**Lab Sample ID: 380-188302-1**

Date Collected: 12/15/25 11:22

Matrix: Drinking Water

Date Received: 12/17/25 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			194295	W8NS	EA POM	12/23/25 12:35
Total/NA	Analysis	525.2		1	194631	UPAC	EA POM	12/26/25 15:55
Total/NA	Prep	625.1			671320	OAJ3	EET CAL 4	12/17/25 22:00
Total/NA	Analysis	625.1		1	676240	PQS1	EET CAL 4	12/29/25 17:32
Total/NA	Prep	625.1			671320	OAJ3	EET CAL 4	12/17/25 22:00
Total/NA	Analysis	625.1 SIM		1	675313	PQS1	EET CAL 4	12/26/25 14:18
Total/NA	Analysis	8015B GRO LL		1	675935	AJG4	EET CAL 4	12/28/25 16:04
Total/NA	Prep	3510C	RA		671434	TVD6	EET CAL 4	12/18/25 08:24
Total/NA	Analysis	8015B	RA	1	679225	H6FE	EET CAL 4	01/07/26 00:23

**Client Sample ID: TB: Aiea Gulch Wells Pump 2**

**Lab Sample ID: 380-188302-2**

Date Collected: 12/15/25 11:22

Matrix: Water

Date Received: 12/17/25 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015B GRO LL		1	675780	AJG4	EET CAL 4	12/27/25 18:02

**Laboratory References:**

EA POM = Eurofins 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: 380-188302-1  
 SDG: Weekly: Aiea Gulch Wells Pump 2

## Laboratory: Eurofins Pomona

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

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

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

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

## Laboratory: Eurofins Calscience

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

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	7296.01	11-30-26
A2LA	ISO/IEC 17025	7296.01	11-30-26
Alaska (UST)	State	25-005	03-02-26
Arizona	State	AZ0830	11-17-26
California	Los Angeles County Sanitation Districts	9257304	07-31-26
California	State	3082	07-31-26

# Accreditation/Certification Summary

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

Job ID: 380-188302-1  
SDG: Weekly: Aiea Gulch Wells Pump 2

## Laboratory: Eurofins Calscience (Continued)

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

Authority	Program	Identification Number	Expiration Date
Kansas	NELAP	E-10420	07-31-26
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

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# Method Summary

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

Job ID: 380-188302-1  
SDG: Weekly: Aiea Gulch Wells 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 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: 380-188302-1  
SDG: Weekly: Aiea Gulch Wells Pump 2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	PWSID Number
380-188302-1	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Drinking Water	12/15/25 11:22	12/17/25 10:30	HI0000331
380-188302-2	TB: Aiea Gulch Wells Pump 2	Water	12/15/25 11:22	12/17/25 10:30	

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<b>Client Information</b>		Lab P/N: Lopez, Maria		Carrier Tracking No(s):		COC No:	
Client Contact: Mr Kirk Iwamoto		E-Mail: Maria.Lopez@et.eurofins.com		State of Origin:		Page: Page 1 of 1	
Company: City & County of Honolulu		PWSID:		Analysis Requested		Job #:	
Address: 630 South Beretania Street Chemistry Lab		Due Date Requested:		533 - All Analytes		Preservation Codes:	
City: Honolulu		TAT Requested (days):		537.1_DW_PREC - 637.1 Full List		R - NaTHIO <sub>2</sub> S <sub>4</sub>	
State Zip: HI, 96843		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No		525.2_PREC - (MOD) 526 Plus Plus TICs		RA - NaTHIO <sub>2</sub> HCl	
Phone: 808-748-5840 (Tel)		PO #: C20525101 exp 05312023		8015B_ORO_LL_CS - HNL Ranges C10-C24/C24-C36/C36-C18		Q - Na <sub>2</sub> SO <sub>3</sub>	
Email: kiwamoto@hbws.org		WO #:		8015B_GRO_LL - (MOD) GRO		QA - Na <sub>2</sub> SO <sub>3</sub> /HCl	
Project Name: RED-HILL/HBWS Sites Event Desc: RUSH Weekly Red Hill		Project #: 38001111		625.1, 625.1_SIM		Y - Trizma	
Site: Hawaii		SSOW#:		Field Filtered Sample (Yes or No)		I - NH <sub>4</sub> Acetate	
<b>Sample Identification</b>		Sample Date		R		Special Instructions/Note:	
Aiea Gulch Wells Pump 2		15-Dec-2025		2		Total Number of Containers	
Aiea Gulch Wells Pump 2 (Matrix Spike)		1122 G		3		Other:	
Aiea Gulch Wells Pump 2 (Matrix Spike Duplicate)		1122		2		Preservation Codes:	
TB: Aiea Gulch Wells Pump 2						R - NaTHIO <sub>2</sub> S <sub>4</sub>	
						RA - NaTHIO <sub>2</sub> HCl	
						Q - Na <sub>2</sub> SO <sub>3</sub>	
						QA - Na <sub>2</sub> SO <sub>3</sub> /HCl	
						Y - Trizma	
						I - NH <sub>4</sub> Acetate	
						Other:	
						Special Instructions/Note:	
						Total Number of Containers	
						Other:	
						Preservation Codes:	
						R - NaTHIO <sub>2</sub> S <sub>4</sub>	
						RA - NaTHIO <sub>2</sub> HCl	
						Q - Na <sub>2</sub> SO <sub>3</sub>	
						QA - Na <sub>2</sub> SO <sub>3</sub> /HCl	
						Y - Trizma	
						I - NH <sub>4</sub> Acetate	
						Other:	
						Special Instructions/Note:	
						Total Number of Containers	
						Other:	
						Preservation Codes:	
						R - NaTHIO <sub>2</sub> S <sub>4</sub>	
						RA - NaTHIO <sub>2</sub> HCl	
						Q - Na <sub>2</sub> SO <sub>3</sub>	
						QA - Na <sub>2</sub> SO <sub>3</sub> /HCl	
						Y - Trizma	
						I - NH <sub>4</sub> Acetate	
						Other:	
						Special Instructions/Note:	
						Total Number of Containers	
						Other:	
						Preservation Codes:	
						R - NaTHIO <sub>2</sub> S <sub>4</sub>	
						RA - NaTHIO <sub>2</sub> HCl	
						Q - Na <sub>2</sub> SO <sub>3</sub>	
						QA - Na <sub>2</sub> SO <sub>3</sub> /HCl	
						Y - Trizma	
						I - NH <sub>4</sub> Acetate	
						Other:	
						Special Instructions/Note:	
						Total Number of Containers	
						Other:	
						Preservation Codes:	
						R - NaTHIO <sub>2</sub> S <sub>4</sub>	
						RA - NaTHIO <sub>2</sub> HCl	
						Q - Na <sub>2</sub> SO <sub>3</sub>	
						QA - Na <sub>2</sub> SO <sub>3</sub> /HCl	
						Y - Trizma	
						I - NH <sub>4</sub> Acetate	
						Other:	
						Special Instructions/Note:	
						Total Number of Containers	
						Other:	
						Preservation Codes:	
						R - NaTHIO <sub>2</sub> S <sub>4</sub>	
						RA - NaTHIO <sub>2</sub> HCl	
						Q - Na <sub>2</sub> SO <sub>3</sub>	
						QA - Na <sub>2</sub> SO <sub>3</sub> /HCl	
						Y - Trizma	
						I - NH <sub>4</sub> Acetate	
						Other:	
						Special Instructions/Note:	
						Total Number of Containers	
						Other:	
						Preservation Codes:	
						R - NaTHIO <sub>2</sub> S <sub>4</sub>	
						RA - NaTHIO <sub>2</sub> HCl	
						Q - Na <sub>2</sub> SO <sub>3</sub>	
						QA - Na <sub>2</sub> SO <sub>3</sub> /HCl	
						Y - Trizma	
						I - NH <sub>4</sub> Acetate	
						Other:	
						Special Instructions/Note:	
						Total Number of Containers	
						Other:	
						Preservation Codes:	
						R - NaTHIO <sub>2</sub> S <sub>4</sub>	
						RA - NaTHIO <sub>2</sub> HCl	
						Q - Na <sub>2</sub> SO <sub>3</sub>	
						QA - Na <sub>2</sub> SO <sub>3</sub> /HCl	
						Y - Trizma	
						I - NH <sub>4</sub> Acetate	
						Other:	
						Special Instructions/Note:	
						Total Number of Containers	
						Other:	
						Preservation Codes:	
						R - NaTHIO <sub>2</sub> S <sub>4</sub>	
						RA - NaTHIO <sub>2</sub> HCl	
						Q - Na <sub>2</sub> SO <sub>3</sub>	
						QA - Na <sub>2</sub> SO <sub>3</sub> /HCl	
						Y - Trizma	
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						R - NaTHIO <sub>2</sub> S <sub>4</sub>	
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						Y - Trizma	



## Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-188302-1  
SDG Number: Weekly: Aiea Gulch Wells Pump 2

**Login Number: 188302**

**List Number: 1**

**Creator: Hernandez, Orlando**

**List Source: Eurofins Pomona**

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



## Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-188302-1  
SDG Number: Weekly: Aiea Gulch Wells Pump 2

**Login Number: 188302**

**List Number: 2**

**Creator: Khana, Piyush**

**List Source: Eurofins Calscience**

**List Creation: 12/17/25 06:32 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.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	