

# ANALYTICAL REPORT

## PREPARED FOR

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## JOB DESCRIPTION

RED-HILL  
Weekly

## JOB NUMBER

380-142325-1

# Eurofins Eaton Analytical Pomona

## Job Notes

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

## Compliance Statement

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

## Authorization



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# Table of Contents

Cover Page . . . . .	1
Table of Contents . . . . .	3
Definitions/Glossary . . . . .	4
Case Narrative . . . . .	5
Detection Summary . . . . .	6
Client Sample Results . . . . .	7
Action Limit Summary . . . . .	14
Surrogate Summary . . . . .	15
QC Sample Results . . . . .	18
QC Association Summary . . . . .	35
Lab Chronicle . . . . .	37
Certification Summary . . . . .	38
Method Summary . . . . .	40
Sample Summary . . . . .	41
Chain of Custody . . . . .	42
Receipt Checklists . . . . .	45

# Definitions/Glossary

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

Job ID: 380-142325-1  
SDG: Weekly

## Qualifiers

### GC/MS Semi VOA

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

### GC/MS Semi VOA TICs

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

### GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.

### GC Semi VOA

Qualifier	Qualifier Description
^3+	Reporting Limit Check Standard is outside acceptance limits, high biased

## Glossary

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

# Case Narrative

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

Job ID: 380-142325-1

**Job ID: 380-142325-1**

**Eurofins Eaton Analytical Pomona**

## Job Narrative 380-142325-1

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

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

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

### Receipt

The samples were received on 3/26/2025 9:37 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 0.2°C and 0.4°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

Method 8015B\_GRO\_LL: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 570-552661 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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 570-550527 and analytical batch 570-554206 recovered outside control limits for the following analytes: C10-C28. These analytes were biased high in the MRL and were not detected in the associated samples; therefore, the data have been reported.

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

# Detection Summary

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

Job ID: 380-142325-1  
SDG: Weekly

**Client Sample ID: Ka'amilo Wells**  
**PWSID Number: HI0000331**

**Lab Sample ID: 380-142325-1**

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Dieldrin	0.035		0.0099	ug/L	1		525.2	Total/NA

**Client Sample ID: Ka'amilo Wells - TB**

**Lab Sample ID: 380-142325-2**

No Detections.

**Client Sample ID: MOANALUA WELLS (331-223-TP202)**  
**PWSID Number: HI0000331**

**Lab Sample ID: 380-142325-3**

No Detections.

**Client Sample ID: MOANALUA WELLS (331-223-TP202) - TB**

**Lab Sample ID: 380-142325-4**

No Detections.

This Detection Summary does not include radiochemical test results.

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# Client Sample Results

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

Job ID: 380-142325-1  
SDG: Weekly

**Client Sample ID: Ka'amilo Wells**

**Lab Sample ID: 380-142325-1**

Date Collected: 03/24/25 11:49

Matrix: Water

Date Received: 03/26/25 09:37

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		03/27/25 08:13	03/28/25 15:34	1
2,4'-DDD	<0.099		0.099	ug/L		03/27/25 08:13	03/28/25 15:34	1
2,4'-DDE	<0.099		0.099	ug/L		03/27/25 08:13	03/28/25 15:34	1
2,4'-DDT	<0.099		0.099	ug/L		03/27/25 08:13	03/28/25 15:34	1
2,4-Dinitrotoluene	<0.099		0.099	ug/L		03/27/25 08:13	03/28/25 15:34	1
2,6-Dinitrotoluene	<0.099		0.099	ug/L		03/27/25 08:13	03/28/25 15:34	1
2-Methylnaphthalene	<0.099		0.099	ug/L		03/27/25 08:13	03/28/25 15:34	1
4,4'-DDD	<0.099		0.099	ug/L		03/27/25 08:13	03/28/25 15:34	1
4,4'-DDE	<0.099		0.099	ug/L		03/27/25 08:13	03/28/25 15:34	1
4,4'-DDT	<0.099		0.099	ug/L		03/27/25 08:13	03/28/25 15:34	1
Acenaphthene	<0.099		0.099	ug/L		03/27/25 08:13	03/28/25 15:34	1
Acenaphthylene	<0.099		0.099	ug/L		03/27/25 08:13	03/28/25 15:34	1
Acetochlor	<0.099		0.099	ug/L		03/27/25 08:13	03/28/25 15:34	1
Alachlor	<0.049		0.049	ug/L		03/27/25 08:13	03/28/25 15:34	1
alpha-BHC	<0.099		0.099	ug/L		03/27/25 08:13	03/28/25 15:34	1
alpha-Chlordane	<0.049		0.049	ug/L		03/27/25 08:13	03/28/25 15:34	1
Anthracene	<0.020		0.020	ug/L		03/27/25 08:13	03/28/25 15:34	1
Atrazine	<0.049		0.049	ug/L		03/27/25 08:13	03/28/25 15:34	1
Benz(a)anthracene	<0.049	^3+	0.049	ug/L		03/27/25 08:13	03/28/25 15:34	1
Benzo[a]pyrene	<0.020		0.020	ug/L		03/27/25 08:13	03/28/25 15:34	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		03/27/25 08:13	03/28/25 15:34	1
Benzo[g,h,i]perylene	<0.049		0.049	ug/L		03/27/25 08:13	03/28/25 15:34	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		03/27/25 08:13	03/28/25 15:34	1
beta-BHC	<0.099		0.099	ug/L		03/27/25 08:13	03/28/25 15:34	1
Bis(2-ethylhexyl) phthalate	<0.59		0.59	ug/L		03/27/25 08:13	03/28/25 15:34	1
Bromacil	<0.099		0.099	ug/L		03/27/25 08:13	03/28/25 15:34	1
Butachlor	<0.049		0.049	ug/L		03/27/25 08:13	03/28/25 15:34	1
Butylbenzylphthalate	<0.49		0.49	ug/L		03/27/25 08:13	03/28/25 15:34	1
Chlorobenzilate	<0.099		0.099	ug/L		03/27/25 08:13	03/28/25 15:34	1
Chloroneb	<0.099		0.099	ug/L		03/27/25 08:13	03/28/25 15:34	1
Chlorothalonil (Draconil, Bravo)	<0.099		0.099	ug/L		03/27/25 08:13	03/28/25 15:34	1
Chlorpyrifos	<0.049		0.049	ug/L		03/27/25 08:13	03/28/25 15:34	1
Chrysene	<0.020		0.020	ug/L		03/27/25 08:13	03/28/25 15:34	1
delta-BHC	<0.099		0.099	ug/L		03/27/25 08:13	03/28/25 15:34	1
Di(2-ethylhexyl)adipate	<0.59		0.59	ug/L		03/27/25 08:13	03/28/25 15:34	1
Dibenz(a,h)anthracene	<0.049		0.049	ug/L		03/27/25 08:13	03/28/25 15:34	1
Diclorvos (DDVP)	<0.049		0.049	ug/L		03/27/25 08:13	03/28/25 15:34	1
<b>Dieldrin</b>	<b>0.035</b>		0.0099	ug/L		03/27/25 08:13	03/28/25 15:34	1
Diethylphthalate	<0.49		0.49	ug/L		03/27/25 08:13	03/28/25 15:34	1
Dimethylphthalate	<0.49		0.49	ug/L		03/27/25 08:13	03/28/25 15:34	1
Di-n-butyl phthalate	<0.99		0.99	ug/L		03/27/25 08:13	03/28/25 15:34	1
Di-n-octyl phthalate	<0.099		0.099	ug/L		03/27/25 08:13	03/28/25 15:34	1
Endosulfan I (Alpha)	<0.099		0.099	ug/L		03/27/25 08:13	03/28/25 15:34	1
Endosulfan II (Beta)	<0.099		0.099	ug/L		03/27/25 08:13	03/28/25 15:34	1
Endosulfan sulfate	<0.099		0.099	ug/L		03/27/25 08:13	03/28/25 15:34	1
Endrin	<0.0099		0.0099	ug/L		03/27/25 08:13	03/28/25 15:34	1
Endrin aldehyde	<0.099		0.099	ug/L		03/27/25 08:13	03/28/25 15:34	1
EPTC	<0.099		0.099	ug/L		03/27/25 08:13	03/28/25 15:34	1
Fluoranthene	<0.099		0.099	ug/L		03/27/25 08:13	03/28/25 15:34	1

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# Client Sample Results

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

Job ID: 380-142325-1  
SDG: Weekly

**Client Sample ID: Ka'amilo Wells**

**Lab Sample ID: 380-142325-1**

**Date Collected: 03/24/25 11:49**

**Matrix: Water**

**Date Received: 03/26/25 09:37**

**PWSID Number: HI0000331**

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	<0.049		0.049	ug/L		03/27/25 08:13	03/28/25 15:34	1
gamma-Chlordane	<0.049		0.049	ug/L		03/27/25 08:13	03/28/25 15:34	1
Heptachlor	<0.0099		0.0099	ug/L		03/27/25 08:13	03/28/25 15:34	1
Heptachlor epoxide (isomer B)	<0.0099		0.0099	ug/L		03/27/25 08:13	03/28/25 15:34	1
Hexachlorobenzene	<0.049		0.049	ug/L		03/27/25 08:13	03/28/25 15:34	1
Hexachlorocyclopentadiene	<0.049		0.049	ug/L		03/27/25 08:13	03/28/25 15:34	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049	ug/L		03/27/25 08:13	03/28/25 15:34	1
Isophorone	<0.099		0.099	ug/L		03/27/25 08:13	03/28/25 15:34	1
Lindane	<0.0099		0.0099	ug/L		03/27/25 08:13	03/28/25 15:34	1
Malathion	<0.099		0.099	ug/L		03/27/25 08:13	03/28/25 15:34	1
Methoxychlor	<0.049		0.049	ug/L		03/27/25 08:13	03/28/25 15:34	1
Metolachlor	<0.049		0.049	ug/L		03/27/25 08:13	03/28/25 15:34	1
Molinate	<0.099		0.099	ug/L		03/27/25 08:13	03/28/25 15:34	1
Naphthalene	<0.099		0.099	ug/L		03/27/25 08:13	03/28/25 15:34	1
Parathion	<0.099		0.099	ug/L		03/27/25 08:13	03/28/25 15:34	1
Pendimethalin (Penoxaline)	<0.099		0.099	ug/L		03/27/25 08:13	03/28/25 15:34	1
Phenanthrene	<0.039		0.039	ug/L		03/27/25 08:13	03/28/25 15:34	1
Propachlor	<0.049		0.049	ug/L		03/27/25 08:13	03/28/25 15:34	1
Pyrene	<0.049		0.049	ug/L		03/27/25 08:13	03/28/25 15:34	1
Simazine	<0.049		0.049	ug/L		03/27/25 08:13	03/28/25 15:34	1
Terbacil	<0.099		0.099	ug/L		03/27/25 08:13	03/28/25 15:34	1
Terbutylazine	<0.099		0.099	ug/L		03/27/25 08:13	03/28/25 15:34	1
Thiobencarb	<0.099		0.099	ug/L		03/27/25 08:13	03/28/25 15:34	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		03/27/25 08:13	03/28/25 15:34	1
trans-Nonachlor	<0.049		0.049	ug/L		03/27/25 08:13	03/28/25 15:34	1
Trifluralin	<0.099		0.099	ug/L		03/27/25 08:13	03/28/25 15:34	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	03/27/25 08:13	03/28/25 15:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	98		70 - 130	03/27/25 08:13	03/28/25 15:34	1
Perylene-d12	96		70 - 130	03/27/25 08:13	03/28/25 15:34	1
Triphenylphosphate	98		70 - 130	03/27/25 08:13	03/28/25 15:34	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.20		0.20	ug/L		03/27/25 13:47	04/05/25 13:04	1
2-Methylnaphthalene	<0.20		0.20	ug/L		03/27/25 13:47	04/05/25 13:04	1
Acenaphthene	<0.20		0.20	ug/L		03/27/25 13:47	04/05/25 13:04	1
Acenaphthylene	<0.20		0.20	ug/L		03/27/25 13:47	04/05/25 13:04	1
Anthracene	<0.20		0.20	ug/L		03/27/25 13:47	04/05/25 13:04	1
Benzo[a]anthracene	<0.20		0.20	ug/L		03/27/25 13:47	04/05/25 13:04	1
Benzo[a]pyrene	<0.20		0.20	ug/L		03/27/25 13:47	04/05/25 13:04	1
Benzo[b]fluoranthene	<0.20		0.20	ug/L		03/27/25 13:47	04/05/25 13:04	1
Benzo[g,h,i]perylene	<0.20		0.20	ug/L		03/27/25 13:47	04/05/25 13:04	1
Benzo[k]fluoranthene	<0.20		0.20	ug/L		03/27/25 13:47	04/05/25 13:04	1
Chrysene	<0.20		0.20	ug/L		03/27/25 13:47	04/05/25 13:04	1
Dibenz(a,h)anthracene	<0.20		0.20	ug/L		03/27/25 13:47	04/05/25 13:04	1
Fluoranthene	<0.20		0.20	ug/L		03/27/25 13:47	04/05/25 13:04	1

Eurofins Eaton Analytical Pomona

# Client Sample Results

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

Job ID: 380-142325-1  
SDG: Weekly

**Client Sample ID: Ka'amilo Wells**

**Lab Sample ID: 380-142325-1**

Date Collected: 03/24/25 11:49

Matrix: Water

Date Received: 03/26/25 09:37

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
Fluorene	<0.20		0.20	ug/L		03/27/25 13:47	04/05/25 13:04	1
Indeno[1,2,3-cd]pyrene	<0.20		0.20	ug/L		03/27/25 13:47	04/05/25 13:04	1
Naphthalene	<0.20		0.20	ug/L		03/27/25 13:47	04/05/25 13:04	1
Phenanthrene	<0.20		0.20	ug/L		03/27/25 13:47	04/05/25 13:04	1
Pyrene	<0.20		0.20	ug/L		03/27/25 13:47	04/05/25 13:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	79		28 - 127	03/27/25 13:47	04/05/25 13:04	1
2-Fluorobiphenyl (Surr)	93		31 - 120	03/27/25 13:47	04/05/25 13:04	1
2-Fluorophenol (Surr)	45		17 - 120	03/27/25 13:47	04/05/25 13:04	1
Nitrobenzene-d5 (Surr)	90		27 - 120	03/27/25 13:47	04/05/25 13:04	1
Phenol-d6 (Surr)	26		10 - 120	03/27/25 13:47	04/05/25 13:04	1
p-Terphenyl-d14 (Surr)	93		45 - 120	03/27/25 13:47	04/05/25 13:04	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
Cyclobutane, 1,1,2,3,3-pentamethyl-	11	T J N	ug/L		2.37	57905-86-9	03/27/25 13:47	04/05/25 11:06	1
2(5H)-Furanone, 5-(2-methyl-3-methylene-4-butyl)-	9.6	T J N	ug/L		2.51	1000155-85-8	03/27/25 13:47	04/05/25 11:06	1
Unknown	25	T J	ug/L		2.73	N/A	03/27/25 13:47	04/05/25 11:06	1
2-Butenal, 3-methyl-	79	T J N	ug/L		2.92	107-86-8	03/27/25 13:47	04/05/25 11:06	1
Unknown	29	T J	ug/L		3.01	N/A	03/27/25 13:47	04/05/25 11:06	1
Diisoamylene	16	T J N	ug/L		3.09	54063-09-1	03/27/25 13:47	04/05/25 11:06	1
Cyclohexane, 1-methyl-2-propyl-	43	T J N	ug/L		3.12	4291-79-6	03/27/25 13:47	04/05/25 11:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	69		33 - 139	03/27/25 13:47	04/05/25 11:06	1
2-Fluorobiphenyl (Surr)	105		33 - 126	03/27/25 13:47	04/05/25 11:06	1
2-Fluorophenol (Surr)	43		12 - 120	03/27/25 13:47	04/05/25 11:06	1
Nitrobenzene-d5 (Surr)	109		36 - 120	03/27/25 13:47	04/05/25 11:06	1
Phenol-d6 (Surr)	25		10 - 120	03/27/25 13:47	04/05/25 11:06	1
p-Terphenyl-d14 (Surr)	102		47 - 131	03/27/25 13:47	04/05/25 11:06	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			04/02/25 22:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		38 - 134		04/02/25 22:58	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		03/27/25 18:18	04/05/25 20:46	1
Motor Oil Range Organics [C24-C36]	<26		26	ug/L		03/27/25 18:18	04/05/25 20:46	1
C8-C18	<26		26	ug/L		03/27/25 18:18	04/05/25 20:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	99		60 - 130	03/27/25 18:18	04/05/25 20:46	1

# Client Sample Results

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

Job ID: 380-142325-1  
SDG: Weekly

**Client Sample ID: Ka'amilo Wells - TB**

**Lab Sample ID: 380-142325-2**

Date Collected: 03/24/25 11:49

Matrix: Water

Date Received: 03/26/25 09:37

**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			04/02/25 16:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		38 - 134				04/02/25 16:15	1

**Client Sample ID: MOANALUA WELLS (331-223-TP202)**

**Lab Sample ID: 380-142325-3**

Date Collected: 03/24/25 09:37

Matrix: Drinking Water

Date Received: 03/26/25 09:37

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		03/27/25 08:13	03/28/25 15:14	1
2,4'-DDD	<0.098		0.098	ug/L		03/27/25 08:13	03/28/25 15:14	1
2,4'-DDE	<0.098		0.098	ug/L		03/27/25 08:13	03/28/25 15:14	1
2,4'-DDT	<0.098		0.098	ug/L		03/27/25 08:13	03/28/25 15:14	1
2,4-Dinitrotoluene	<0.098		0.098	ug/L		03/27/25 08:13	03/28/25 15:14	1
2,6-Dinitrotoluene	<0.098		0.098	ug/L		03/27/25 08:13	03/28/25 15:14	1
2-Methylnaphthalene	<0.098		0.098	ug/L		03/27/25 08:13	03/28/25 15:14	1
4,4'-DDD	<0.098		0.098	ug/L		03/27/25 08:13	03/28/25 15:14	1
4,4'-DDE	<0.098		0.098	ug/L		03/27/25 08:13	03/28/25 15:14	1
4,4'-DDT	<0.098		0.098	ug/L		03/27/25 08:13	03/28/25 15:14	1
Acenaphthene	<0.098		0.098	ug/L		03/27/25 08:13	03/28/25 15:14	1
Acenaphthylene	<0.098		0.098	ug/L		03/27/25 08:13	03/28/25 15:14	1
Acetochlor	<0.098		0.098	ug/L		03/27/25 08:13	03/28/25 15:14	1
Alachlor	<0.049		0.049	ug/L		03/27/25 08:13	03/28/25 15:14	1
alpha-BHC	<0.098		0.098	ug/L		03/27/25 08:13	03/28/25 15:14	1
alpha-Chlordane	<0.049		0.049	ug/L		03/27/25 08:13	03/28/25 15:14	1
Anthracene	<0.020		0.020	ug/L		03/27/25 08:13	03/28/25 15:14	1
Atrazine	<0.049		0.049	ug/L		03/27/25 08:13	03/28/25 15:14	1
Benz(a)anthracene	<0.049	^3+	0.049	ug/L		03/27/25 08:13	03/28/25 15:14	1
Benzo[a]pyrene	<0.020		0.020	ug/L		03/27/25 08:13	03/28/25 15:14	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		03/27/25 08:13	03/28/25 15:14	1
Benzo[g,h,i]perylene	<0.049		0.049	ug/L		03/27/25 08:13	03/28/25 15:14	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		03/27/25 08:13	03/28/25 15:14	1
beta-BHC	<0.098		0.098	ug/L		03/27/25 08:13	03/28/25 15:14	1
Bis(2-ethylhexyl) phthalate	<0.59		0.59	ug/L		03/27/25 08:13	03/28/25 15:14	1
Bromacil	<0.098		0.098	ug/L		03/27/25 08:13	03/28/25 15:14	1
Butachlor	<0.049		0.049	ug/L		03/27/25 08:13	03/28/25 15:14	1
Butylbenzylphthalate	<0.49		0.49	ug/L		03/27/25 08:13	03/28/25 15:14	1
Chlorobenzilate	<0.098		0.098	ug/L		03/27/25 08:13	03/28/25 15:14	1
Chloroneb	<0.098		0.098	ug/L		03/27/25 08:13	03/28/25 15:14	1
Chlorothalonil (Draconil, Bravo)	<0.098		0.098	ug/L		03/27/25 08:13	03/28/25 15:14	1
Chlorpyrifos	<0.049		0.049	ug/L		03/27/25 08:13	03/28/25 15:14	1
Chrysene	<0.020		0.020	ug/L		03/27/25 08:13	03/28/25 15:14	1
delta-BHC	<0.098		0.098	ug/L		03/27/25 08:13	03/28/25 15:14	1
Di(2-ethylhexyl)adipate	<0.59		0.59	ug/L		03/27/25 08:13	03/28/25 15:14	1
Dibenz(a,h)anthracene	<0.049		0.049	ug/L		03/27/25 08:13	03/28/25 15:14	1
Diclorvos (DDVP)	<0.049		0.049	ug/L		03/27/25 08:13	03/28/25 15:14	1
Dieldrin	<0.0098		0.0098	ug/L		03/27/25 08:13	03/28/25 15:14	1
Diethylphthalate	<0.49		0.49	ug/L		03/27/25 08:13	03/28/25 15:14	1

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# Client Sample Results

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

Job ID: 380-142325-1  
SDG: Weekly

**Client Sample ID: MOANALUA WELLS (331-223-TP202)**

**Lab Sample ID: 380-142325-3**

Date Collected: 03/24/25 09:37

Matrix: Drinking Water

Date Received: 03/26/25 09:37

PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethylphthalate	<0.49		0.49	ug/L		03/27/25 08:13	03/28/25 15:14	1
Di-n-butyl phthalate	<0.98		0.98	ug/L		03/27/25 08:13	03/28/25 15:14	1
Di-n-octyl phthalate	<0.098		0.098	ug/L		03/27/25 08:13	03/28/25 15:14	1
Endosulfan I (Alpha)	<0.098		0.098	ug/L		03/27/25 08:13	03/28/25 15:14	1
Endosulfan II (Beta)	<0.098		0.098	ug/L		03/27/25 08:13	03/28/25 15:14	1
Endosulfan sulfate	<0.098		0.098	ug/L		03/27/25 08:13	03/28/25 15:14	1
Endrin	<0.0098		0.0098	ug/L		03/27/25 08:13	03/28/25 15:14	1
Endrin aldehyde	<0.098		0.098	ug/L		03/27/25 08:13	03/28/25 15:14	1
EPTC	<0.098		0.098	ug/L		03/27/25 08:13	03/28/25 15:14	1
Fluoranthene	<0.098		0.098	ug/L		03/27/25 08:13	03/28/25 15:14	1
Fluorene	<0.049		0.049	ug/L		03/27/25 08:13	03/28/25 15:14	1
gamma-Chlordane	<0.049		0.049	ug/L		03/27/25 08:13	03/28/25 15:14	1
Heptachlor	<0.0098		0.0098	ug/L		03/27/25 08:13	03/28/25 15:14	1
Heptachlor epoxide (isomer B)	<0.0098		0.0098	ug/L		03/27/25 08:13	03/28/25 15:14	1
Hexachlorobenzene	<0.049		0.049	ug/L		03/27/25 08:13	03/28/25 15:14	1
Hexachlorocyclopentadiene	<0.049		0.049	ug/L		03/27/25 08:13	03/28/25 15:14	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049	ug/L		03/27/25 08:13	03/28/25 15:14	1
Isophorone	<0.098		0.098	ug/L		03/27/25 08:13	03/28/25 15:14	1
Lindane	<0.0098		0.0098	ug/L		03/27/25 08:13	03/28/25 15:14	1
Malathion	<0.098		0.098	ug/L		03/27/25 08:13	03/28/25 15:14	1
Methoxychlor	<0.049		0.049	ug/L		03/27/25 08:13	03/28/25 15:14	1
Metolachlor	<0.049		0.049	ug/L		03/27/25 08:13	03/28/25 15:14	1
Molinate	<0.098		0.098	ug/L		03/27/25 08:13	03/28/25 15:14	1
Naphthalene	<0.098		0.098	ug/L		03/27/25 08:13	03/28/25 15:14	1
Parathion	<0.098		0.098	ug/L		03/27/25 08:13	03/28/25 15:14	1
Pendimethalin (Penoxaline)	<0.098		0.098	ug/L		03/27/25 08:13	03/28/25 15:14	1
Phenanthrene	<0.039		0.039	ug/L		03/27/25 08:13	03/28/25 15:14	1
Propachlor	<0.049		0.049	ug/L		03/27/25 08:13	03/28/25 15:14	1
Pyrene	<0.049		0.049	ug/L		03/27/25 08:13	03/28/25 15:14	1
Simazine	<0.049		0.049	ug/L		03/27/25 08:13	03/28/25 15:14	1
Terbacil	<0.098		0.098	ug/L		03/27/25 08:13	03/28/25 15:14	1
Terbutylazine	<0.098		0.098	ug/L		03/27/25 08:13	03/28/25 15:14	1
Thiobencarb	<0.098		0.098	ug/L		03/27/25 08:13	03/28/25 15:14	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		03/27/25 08:13	03/28/25 15:14	1
trans-Nonachlor	<0.049		0.049	ug/L		03/27/25 08:13	03/28/25 15:14	1
Trifluralin	<0.098		0.098	ug/L		03/27/25 08:13	03/28/25 15:14	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	03/27/25 08:13	03/28/25 15:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	99		70 - 130	03/27/25 08:13	03/28/25 15:14	1
Perylene-d12	85		70 - 130	03/27/25 08:13	03/28/25 15:14	1
Triphenylphosphate	94		70 - 130	03/27/25 08:13	03/28/25 15:14	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		03/27/25 13:47	04/05/25 12:42	1
2-Methylnaphthalene	<0.19		0.19	ug/L		03/27/25 13:47	04/05/25 12:42	1
Acenaphthene	<0.19		0.19	ug/L		03/27/25 13:47	04/05/25 12:42	1

Eurofins Eaton Analytical Pomona

# Client Sample Results

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

Job ID: 380-142325-1  
SDG: Weekly

**Client Sample ID: MOANALUA WELLS (331-223-TP202)**

**Lab Sample ID: 380-142325-3**

Date Collected: 03/24/25 09:37

Matrix: Drinking Water

Date Received: 03/26/25 09:37

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
Acenaphthylene	<0.19		0.19	ug/L		03/27/25 13:47	04/05/25 12:42	1
Anthracene	<0.19		0.19	ug/L		03/27/25 13:47	04/05/25 12:42	1
Benzo[a]anthracene	<0.19		0.19	ug/L		03/27/25 13:47	04/05/25 12:42	1
Benzo[a]pyrene	<0.19		0.19	ug/L		03/27/25 13:47	04/05/25 12:42	1
Benzo[b]fluoranthene	<0.19		0.19	ug/L		03/27/25 13:47	04/05/25 12:42	1
Benzo[g,h,i]perylene	<0.19		0.19	ug/L		03/27/25 13:47	04/05/25 12:42	1
Benzo[k]fluoranthene	<0.19		0.19	ug/L		03/27/25 13:47	04/05/25 12:42	1
Chrysene	<0.19		0.19	ug/L		03/27/25 13:47	04/05/25 12:42	1
Dibenz(a,h)anthracene	<0.19		0.19	ug/L		03/27/25 13:47	04/05/25 12:42	1
Fluoranthene	<0.19		0.19	ug/L		03/27/25 13:47	04/05/25 12:42	1
Fluorene	<0.19		0.19	ug/L		03/27/25 13:47	04/05/25 12:42	1
Indeno[1,2,3-cd]pyrene	<0.19		0.19	ug/L		03/27/25 13:47	04/05/25 12:42	1
Naphthalene	<0.19		0.19	ug/L		03/27/25 13:47	04/05/25 12:42	1
Phenanthrene	<0.19		0.19	ug/L		03/27/25 13:47	04/05/25 12:42	1
Pyrene	<0.19		0.19	ug/L		03/27/25 13:47	04/05/25 12:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	77		28 - 127			03/27/25 13:47	04/05/25 12:42	1
2-Fluorobiphenyl (Surr)	89		31 - 120			03/27/25 13:47	04/05/25 12:42	1
2-Fluorophenol (Surr)	42		17 - 120			03/27/25 13:47	04/05/25 12:42	1
Nitrobenzene-d5 (Surr)	87		27 - 120			03/27/25 13:47	04/05/25 12:42	1
Phenol-d6 (Surr)	25		10 - 120			03/27/25 13:47	04/05/25 12:42	1
p-Terphenyl-d14 (Surr)	91		45 - 120			03/27/25 13:47	04/05/25 12:42	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
2-Hexene, 2,5,5-trimethyl-	11	T J N	ug/L		2.37	40467-04-7	03/27/25 13:47	04/05/25 11:29	1
2-Hydroxy-2-methyl-but-3-enyl	8.9	T J N	ug/L		2.51	80758-67-4	03/27/25 13:47	04/05/25 11:29	1
2-methyl-2(Z)-butenoate									
Unknown	26	T J	ug/L		2.73	N/A	03/27/25 13:47	04/05/25 11:29	1
Unknown	7.9	T J	ug/L		2.84	N/A	03/27/25 13:47	04/05/25 11:29	1
2-Pentenal, (E)-	80	T J N	ug/L		2.92	1576-87-0	03/27/25 13:47	04/05/25 11:29	1
Hexane, 2,3-dimethyl-	29	T J N	ug/L		3.01	584-94-1	03/27/25 13:47	04/05/25 11:29	1
cis-2,4-Dimethylthiane, S,S-dioxide	15	T J N	ug/L		3.09	1000215-67-5	03/27/25 13:47	04/05/25 11:29	1
Cyclohexane, 1-methyl-2-propyl-	42	T J N	ug/L		3.12	4291-79-6	03/27/25 13:47	04/05/25 11:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	59		33 - 139				03/27/25 13:47	04/05/25 11:29	1
2-Fluorobiphenyl (Surr)	95		33 - 126				03/27/25 13:47	04/05/25 11:29	1
2-Fluorophenol (Surr)	45		12 - 120				03/27/25 13:47	04/05/25 11:29	1
Nitrobenzene-d5 (Surr)	103		36 - 120				03/27/25 13:47	04/05/25 11:29	1
Phenol-d6 (Surr)	24		10 - 120				03/27/25 13:47	04/05/25 11:29	1
p-Terphenyl-d14 (Surr)	94		47 - 131				03/27/25 13:47	04/05/25 11:29	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			04/02/25 17:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		38 - 134				04/02/25 17:54	1

Eurofins Eaton Analytical Pomona

# Client Sample Results

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

Job ID: 380-142325-1  
 SDG: Weekly

**Client Sample ID: MOANALUA WELLS (331-223-TP202)**

**Lab Sample ID: 380-142325-3**

Date Collected: 03/24/25 09:37

Matrix: Drinking Water

Date Received: 03/26/25 09:37

PWSID Number: HI0000331

**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		03/27/25 18:18	04/05/25 20:24	1
Motor Oil Range Organics [C24-C36]	<26		26	ug/L		03/27/25 18:18	04/05/25 20:24	1
C8-C18	<26		26	ug/L		03/27/25 18:18	04/05/25 20:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>n</i> -Octacosane (Surr)	80		60 - 130			03/27/25 18:18	04/05/25 20:24	1

**Client Sample ID: MOANALUA WELLS (331-223-TP202) - TB**

**Lab Sample ID: 380-142325-4**

Date Collected: 03/24/25 09:37

Matrix: Water

Date Received: 03/26/25 09:37

**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			04/02/25 16:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		38 - 134				04/02/25 16:40	1

# Action Limit Summary

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

Job ID: 380-142325-1  
SDG: Weekly

**Client Sample ID: Ka'amilo Wells**

**Lab Sample ID: 380-142325-1**

**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	RL	Method	Prep Type
				Limit			
Alachlor	<0.049		ug/L	2	0.049	525.2	Total/NA
Atrazine	<0.049		ug/L	3	0.049	525.2	Total/NA
Benzo[a]pyrene	<0.020		ug/L	0.2	0.020	525.2	Total/NA
Bis(2-ethylhexyl) phthalate	<0.59		ug/L	6	0.59	525.2	Total/NA
Di(2-ethylhexyl)adipate	<0.59		ug/L	400	0.59	525.2	Total/NA
Endrin	<0.0099		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	<0.20		ug/L	0.2	0.20	625.1 SIM	Total/NA

**Client Sample ID: MOANALUA WELLS (331-223-TP202)**

**Lab Sample ID: 380-142325-3**

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

# Surrogate Summary

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

Job ID: 380-142325-1  
SDG: Weekly

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

Matrix: Drinking Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		2NMX (70-130)	PRY (70-130)	TPP (70-130)
380-142325-3	MOANALUA WELLS (331-223-T)	99	85	94

**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)
380-141859-B-1-A DU	Duplicate	96	75	98
380-142321-H-1-A MS	Matrix Spike	97	94	103
380-142325-1	Ka'amilo Wells	98	96	98
LCS 380-144043/23-A	Lab Control Sample	96	98	101
LCS 380-144043/24-A	Lab Control Sample Dup	98	94	105
MB 380-144043/21-A	Method Blank	98	95	96
MRL 380-144043/22-A	Lab Control Sample	97	94	101

**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)
380-142325-3	MOANALUA WELLS (331-223-T)	59	95	45	103	24	94

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

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (33-139)	FBP (33-126)	2FP (12-120)	NBZ (36-120)	PHL6 (10-120)	TPHd14 (47-131)
380-142325-1	Ka'amilo Wells	69	105	43	109	25	102
MB 570-550397/1-A	Method Blank	67	104	35	104	23	105

**Surrogate Legend**  
 TBP = 2,4,6-Tribromophenol (Surr)

# Surrogate Summary

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

Job ID: 380-142325-1  
 SDG: Weekly

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

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

Matrix: Drinking Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (28-127)	FBP (31-120)	2FP (17-120)	NBZ (27-120)	PHL6 (10-120)	TPHd14 (45-120)
380-142325-3	MOANALUA WELLS (331-223-T	77	89	42	87	25	91
380-142325-3 MS	MOANALUA WELLS (331-223-TP202)	85	95	47	77	30	100
380-142325-3 MSD	MOANALUA WELLS (331-223-TP202)	87	99	49	84	30	106

### Surrogate Legend

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

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (28-127)	FBP (31-120)	2FP (17-120)	NBZ (27-120)	PHL6 (10-120)	TPHd14 (45-120)
380-142325-1	Ka'amilo Wells	79	93	45	90	26	93
LCS 570-550397/2-A	Lab Control Sample	87	96	51	81	31	103
LCSD 570-550397/3-A	Lab Control Sample Dup	85	92	51	75	32	96
MB 570-550397/1-A	Method Blank	81	89	34	88	23	101

### 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)
380-142325-3	MOANALUA WELLS (331-223-T	90
380-142325-3 MS	MOANALUA WELLS (331-223-TP202)	92
380-142325-3 MSD	MOANALUA WELLS (331-223-TP202)	91

### Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

# Surrogate Summary

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

Job ID: 380-142325-1  
 SDG: Weekly

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

Matrix: Water

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB1 (38-134)
380-142325-1	Ka'amilo Wells	89
380-142325-2	Ka'amilo Wells - TB	91
380-142325-4	MOANALUA WELLS (331-223-TP202) - TB	89
LCS 570-552661/4	Lab Control Sample	93
LCSD 570-552661/5	Lab Control Sample Dup	95
MB 570 552661/6	Method Blank	90
MRL 570-552661/3	Lab Control Sample	90

**Surrogate Legend**

BFB = 4-Bromofluorobenzene (Surr)

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

Matrix: Drinking Water

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	OTCSN1 (60-130)
380-142325-3	MOANALUA WELLS (331-223-T	80
380-142325-3 MS	MOANALUA WELLS (331-223-TP202)	84
380-142325-3 MSD	MOANALUA WELLS (331-223-TP202)	86

**Surrogate Legend**

OTCSN = n-Octacosane (Surr)

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

Matrix: Water

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	OTCSN1 (60-130)
380-142325-1	Ka'amilo Wells	99
LCS 570-550527/2-A	Lab Control Sample	80
LCSD 570-550527/3-A	Lab Control Sample Dup	89
MB 570-550527/1-A	Method Blank	82
MRL 570-550527/4-A	Lab Control Sample	85

**Surrogate Legend**

OTCSN = n-Octacosane (Surr)

# QC Sample Results

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

Job ID: 380-142325-1  
 SDG: Weekly

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

**Lab Sample ID: MB 380-144043/21-A**  
**Matrix: Water**  
**Analysis Batch: 144294**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 144043**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.098		0.098	ug/L		03/27/25 08:13	03/28/25 13:13	1
2,4'-DDD	<0.098		0.098	ug/L		03/27/25 08:13	03/28/25 13:13	1
2,4'-DDE	<0.098		0.098	ug/L		03/27/25 08:13	03/28/25 13:13	1
2,4'-DDT	<0.098		0.098	ug/L		03/27/25 08:13	03/28/25 13:13	1
2,4-Dinitrotoluene	<0.098		0.098	ug/L		03/27/25 08:13	03/28/25 13:13	1
2,6-Dinitrotoluene	<0.098		0.098	ug/L		03/27/25 08:13	03/28/25 13:13	1
2-Methylnaphthalene	<0.098		0.098	ug/L		03/27/25 08:13	03/28/25 13:13	1
4,4'-DDD	<0.098		0.098	ug/L		03/27/25 08:13	03/28/25 13:13	1
4,4'-DDE	<0.098		0.098	ug/L		03/27/25 08:13	03/28/25 13:13	1
4,4'-DDT	<0.098		0.098	ug/L		03/27/25 08:13	03/28/25 13:13	1
Acenaphthene	<0.098		0.098	ug/L		03/27/25 08:13	03/28/25 13:13	1
Acenaphthylene	<0.098		0.098	ug/L		03/27/25 08:13	03/28/25 13:13	1
Acetochlor	<0.098		0.098	ug/L		03/27/25 08:13	03/28/25 13:13	1
Alachlor	<0.049		0.049	ug/L		03/27/25 08:13	03/28/25 13:13	1
alpha-BHC	<0.098		0.098	ug/L		03/27/25 08:13	03/28/25 13:13	1
alpha-Chlordane	<0.049		0.049	ug/L		03/27/25 08:13	03/28/25 13:13	1
Anthracene	<0.020		0.020	ug/L		03/27/25 08:13	03/28/25 13:13	1
Atrazine	<0.049		0.049	ug/L		03/27/25 08:13	03/28/25 13:13	1
Benz(a)anthracene	<0.049		0.049	ug/L		03/27/25 08:13	03/28/25 13:13	1
Benzo[a]pyrene	<0.020		0.020	ug/L		03/27/25 08:13	03/28/25 13:13	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		03/27/25 08:13	03/28/25 13:13	1
Benzo[g,h,i]perylene	<0.049		0.049	ug/L		03/27/25 08:13	03/28/25 13:13	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		03/27/25 08:13	03/28/25 13:13	1
beta-BHC	<0.098		0.098	ug/L		03/27/25 08:13	03/28/25 13:13	1
Bis(2-ethylhexyl) phthalate	<0.59		0.59	ug/L		03/27/25 08:13	03/28/25 13:13	1
Bromacil	<0.098		0.098	ug/L		03/27/25 08:13	03/28/25 13:13	1
Butachlor	<0.049		0.049	ug/L		03/27/25 08:13	03/28/25 13:13	1
Butylbenzylphthalate	<0.49		0.49	ug/L		03/27/25 08:13	03/28/25 13:13	1
Chlorobenzilate	<0.098		0.098	ug/L		03/27/25 08:13	03/28/25 13:13	1
Chloroneb	<0.098		0.098	ug/L		03/27/25 08:13	03/28/25 13:13	1
Chlorothalonil (Draconil, Bravo)	<0.098		0.098	ug/L		03/27/25 08:13	03/28/25 13:13	1
Chlorpyrifos	<0.049		0.049	ug/L		03/27/25 08:13	03/28/25 13:13	1
Chrysene	<0.020		0.020	ug/L		03/27/25 08:13	03/28/25 13:13	1
delta-BHC	<0.098		0.098	ug/L		03/27/25 08:13	03/28/25 13:13	1
Di(2-ethylhexyl)adipate	<0.59		0.59	ug/L		03/27/25 08:13	03/28/25 13:13	1
Dibenz(a,h)anthracene	<0.049		0.049	ug/L		03/27/25 08:13	03/28/25 13:13	1
Diclorvos (DDVP)	<0.049		0.049	ug/L		03/27/25 08:13	03/28/25 13:13	1
Dieldrin	<0.0098		0.0098	ug/L		03/27/25 08:13	03/28/25 13:13	1
Diethylphthalate	<0.49		0.49	ug/L		03/27/25 08:13	03/28/25 13:13	1
Dimethylphthalate	<0.49		0.49	ug/L		03/27/25 08:13	03/28/25 13:13	1
Di-n-butyl phthalate	<0.98		0.98	ug/L		03/27/25 08:13	03/28/25 13:13	1
Di-n-octyl phthalate	<0.098		0.098	ug/L		03/27/25 08:13	03/28/25 13:13	1
Endosulfan I (Alpha)	<0.098		0.098	ug/L		03/27/25 08:13	03/28/25 13:13	1
Endosulfan II (Beta)	<0.098		0.098	ug/L		03/27/25 08:13	03/28/25 13:13	1
Endosulfan sulfate	<0.098		0.098	ug/L		03/27/25 08:13	03/28/25 13:13	1
Endrin	<0.0098		0.0098	ug/L		03/27/25 08:13	03/28/25 13:13	1
Endrin aldehyde	<0.098		0.098	ug/L		03/27/25 08:13	03/28/25 13:13	1
EPTC	<0.098		0.098	ug/L		03/27/25 08:13	03/28/25 13:13	1

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# QC Sample Results

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

Job ID: 380-142325-1  
SDG: Weekly

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

**Lab Sample ID: MB 380-144043/21-A**  
**Matrix: Water**  
**Analysis Batch: 144294**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 144043**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	<0.098		0.098	ug/L		03/27/25 08:13	03/28/25 13:13	1
Fluorene	<0.049		0.049	ug/L		03/27/25 08:13	03/28/25 13:13	1
gamma-Chlordane	<0.049		0.049	ug/L		03/27/25 08:13	03/28/25 13:13	1
Heptachlor	<0.0098		0.0098	ug/L		03/27/25 08:13	03/28/25 13:13	1
Heptachlor epoxide (isomer B)	<0.0098		0.0098	ug/L		03/27/25 08:13	03/28/25 13:13	1
Hexachlorobenzene	<0.049		0.049	ug/L		03/27/25 08:13	03/28/25 13:13	1
Hexachlorocyclopentadiene	<0.049		0.049	ug/L		03/27/25 08:13	03/28/25 13:13	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049	ug/L		03/27/25 08:13	03/28/25 13:13	1
Isophorone	<0.098		0.098	ug/L		03/27/25 08:13	03/28/25 13:13	1
Lindane	<0.0098		0.0098	ug/L		03/27/25 08:13	03/28/25 13:13	1
Malathion	<0.098		0.098	ug/L		03/27/25 08:13	03/28/25 13:13	1
Methoxychlor	<0.049		0.049	ug/L		03/27/25 08:13	03/28/25 13:13	1
Metolachlor	<0.049		0.049	ug/L		03/27/25 08:13	03/28/25 13:13	1
Molinate	<0.098		0.098	ug/L		03/27/25 08:13	03/28/25 13:13	1
Naphthalene	<0.098		0.098	ug/L		03/27/25 08:13	03/28/25 13:13	1
Parathion	<0.098		0.098	ug/L		03/27/25 08:13	03/28/25 13:13	1
Pendimethalin (Penoxaline)	<0.098		0.098	ug/L		03/27/25 08:13	03/28/25 13:13	1
Phenanthrene	<0.039		0.039	ug/L		03/27/25 08:13	03/28/25 13:13	1
Propachlor	<0.049		0.049	ug/L		03/27/25 08:13	03/28/25 13:13	1
Pyrene	<0.049		0.049	ug/L		03/27/25 08:13	03/28/25 13:13	1
Simazine	<0.049		0.049	ug/L		03/27/25 08:13	03/28/25 13:13	1
Terbacil	<0.098		0.098	ug/L		03/27/25 08:13	03/28/25 13:13	1
Terbutylazine	<0.098		0.098	ug/L		03/27/25 08:13	03/28/25 13:13	1
Thiobencarb	<0.098		0.098	ug/L		03/27/25 08:13	03/28/25 13:13	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		03/27/25 08:13	03/28/25 13:13	1
trans-Nonachlor	<0.049		0.049	ug/L		03/27/25 08:13	03/28/25 13:13	1
Trifluralin	<0.098		0.098	ug/L		03/27/25 08:13	03/28/25 13:13	1

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	0.704	T J	ug/L		2.65	N/A	03/27/25 08:13	03/28/25 13:13	1
Decane	2.32	T J N	ug/L		2.91	124-18-5	03/27/25 08:13	03/28/25 13:13	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	98		70 - 130	03/27/25 08:13	03/28/25 13:13	1
Perylene-d12	95		70 - 130	03/27/25 08:13	03/28/25 13:13	1
Triphenylphosphate	96		70 - 130	03/27/25 08:13	03/28/25 13:13	1

**Lab Sample ID: LCS 380-144043/23-A**  
**Matrix: Water**  
**Analysis Batch: 144294**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 144043**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	1.95	1.96		ug/L		100	70 - 130
2,4'-DDD	1.95	2.17		ug/L		111	70 - 130
2,4'-DDE	1.95	2.18		ug/L		112	70 - 130
2,4'-DDT	1.95	1.89		ug/L		97	70 - 130
2,4-Dinitrotoluene	1.95	1.74		ug/L		89	70 - 130
2,6-Dinitrotoluene	1.95	1.76		ug/L		90	70 - 130

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# QC Sample Results

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

Job ID: 380-142325-1  
SDG: Weekly

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

**Lab Sample ID: LCS 380-144043/23-A**  
**Matrix: Water**  
**Analysis Batch: 144294**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 144043**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2-Methylnaphthalene	1.95	1.95		ug/L		100	70 - 130
4,4'-DDD	1.95	1.93		ug/L		99	70 - 130
4,4'-DDE	1.95	2.00		ug/L		102	70 - 130
4,4'-DDT	1.95	1.91		ug/L		98	70 - 130
Acenaphthene	1.95	1.95		ug/L		100	70 - 130
Acenaphthylene	1.95	2.01		ug/L		103	70 - 130
Acetochlor	1.95	2.25		ug/L		115	70 - 130
Alachlor	1.95	2.00		ug/L		102	70 - 130
alpha-BHC	1.95	2.06		ug/L		105	70 - 130
alpha-Chlordane	1.95	1.94		ug/L		99	70 - 130
Anthracene	1.95	1.88		ug/L		96	70 - 130
Atrazine	1.95	2.03		ug/L		104	70 - 130
Benz(a)anthracene	1.95	1.92		ug/L		98	70 - 130
Benzo[a]pyrene	1.95	2.00		ug/L		102	70 - 130
Benzo[b]fluoranthene	1.95	2.15		ug/L		110	70 - 130
Benzo[g,h,i]perylene	1.95	2.07		ug/L		106	70 - 130
Benzo[k]fluoranthene	1.95	2.18		ug/L		112	70 - 130
beta-BHC	1.95	2.17		ug/L		111	70 - 130
Bis(2-ethylhexyl) phthalate	1.95	2.05		ug/L		105	70 - 130
Bromacil	1.95	1.99		ug/L		102	70 - 130
Butachlor	1.95	2.18		ug/L		112	70 - 130
Butylbenzylphthalate	1.95	2.10		ug/L		107	70 - 130
Chlorobenzilate	1.95	2.01		ug/L		103	70 - 130
Chloroneb	1.95	2.07		ug/L		106	70 - 130
Chlorothalonil (Draconil, Bravo)	1.95	2.06		ug/L		106	70 - 130
Chlorpyrifos	1.95	1.98		ug/L		101	70 - 130
Chrysene	1.95	2.13		ug/L		109	70 - 130
delta-BHC	1.95	2.13		ug/L		109	70 - 130
Di(2-ethylhexyl)adipate	1.95	2.10		ug/L		108	70 - 130
Dibenz(a,h)anthracene	1.95	1.96		ug/L		100	70 - 130
Diclorvos (DDVP)	1.95	2.05		ug/L		105	70 - 130
Dieldrin	1.95	2.15		ug/L		110	70 - 130
Diethylphthalate	1.95	2.14		ug/L		109	70 - 130
Dimethylphthalate	1.95	2.08		ug/L		107	70 - 130
Di-n-butyl phthalate	3.91	4.57		ug/L		117	70 - 130
Di-n-octyl phthalate	1.95	1.98		ug/L		101	70 - 130
Endosulfan I (Alpha)	1.95	2.12		ug/L		108	70 - 130
Endosulfan II (Beta)	1.95	2.15		ug/L		110	70 - 130
Endosulfan sulfate	1.95	2.00		ug/L		103	70 - 130
Endrin	1.95	2.13		ug/L		109	70 - 130
Endrin aldehyde	1.95	1.92		ug/L		98	60 - 130
EPTC	1.95	2.13		ug/L		109	70 - 130
Fluoranthene	1.95	2.03		ug/L		104	70 - 130
Fluorene	1.95	2.04		ug/L		104	70 - 130
gamma-Chlordane	1.95	1.91		ug/L		98	70 - 130
Heptachlor	1.95	1.98		ug/L		102	70 - 130
Heptachlor epoxide (isomer B)	1.95	2.08		ug/L		106	70 - 130
Hexachlorobenzene	1.95	1.92		ug/L		98	70 - 130
Hexachlorocyclopentadiene	1.95	1.77		ug/L		91	70 - 130

Eurofins Eaton Analytical Pomona

# QC Sample Results

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

Job ID: 380-142325-1  
SDG: Weekly

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

**Lab Sample ID: LCS 380-144043/23-A**  
**Matrix: Water**  
**Analysis Batch: 144294**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 144043**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Indeno[1,2,3-cd]pyrene	1.95	2.16		ug/L		111	70 - 130
Isophorone	1.95	2.05		ug/L		105	70 - 130
Lindane	1.95	2.12		ug/L		109	70 - 130
Malathion	1.95	1.96		ug/L		100	70 - 130
Methoxychlor	1.95	1.94		ug/L		99	70 - 130
Metolachlor	1.95	2.12		ug/L		108	70 - 130
Molinate	1.95	2.18		ug/L		112	70 - 130
Naphthalene	1.95	1.88		ug/L		96	70 - 130
Parathion	1.95	2.03		ug/L		104	70 - 130
Pendimethalin (Penoxaline)	1.95	1.95		ug/L		100	70 - 130
Phenanthrene	1.95	1.98		ug/L		101	70 - 130
Propachlor	1.95	2.23		ug/L		114	70 - 130
Pyrene	1.95	2.01		ug/L		103	70 - 130
Simazine	1.95	1.94		ug/L		99	70 - 130
Terbacil	1.95	2.10		ug/L		108	70 - 130
Terbutylazine	1.95	2.02		ug/L		104	70 - 130
Thiobencarb	1.95	2.06		ug/L		106	70 - 130
trans-Nonachlor	1.95	1.89		ug/L		97	70 - 130
Trifluralin	1.95	1.72		ug/L		88	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Nitro-m-xylene	96		70 - 130
Perylene-d12	98		70 - 130
Triphenylphosphate	101		70 - 130

**Lab Sample ID: LCSD 380-144043/24-A**  
**Matrix: Water**  
**Analysis Batch: 144294**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 144043**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	1.95	2.01		ug/L		103	70 - 130	2	20
2,4'-DDD	1.95	2.26		ug/L		116	70 - 130	4	20
2,4'-DDE	1.95	2.22		ug/L		114	70 - 130	2	20
2,4'-DDT	1.95	1.97		ug/L		101	70 - 130	4	20
2,4-Dinitrotoluene	1.95	1.80		ug/L		92	70 - 130	3	20
2,6-Dinitrotoluene	1.95	1.88		ug/L		96	70 - 130	7	20
2-Methylnaphthalene	1.95	2.02		ug/L		104	70 - 130	4	20
4,4'-DDD	1.95	2.03		ug/L		104	70 - 130	5	20
4,4'-DDE	1.95	2.11		ug/L		108	70 - 130	6	20
4,4'-DDT	1.95	1.95		ug/L		100	70 - 130	2	20
Acenaphthene	1.95	1.98		ug/L		101	70 - 130	1	20
Acenaphthylene	1.95	2.04		ug/L		104	70 - 130	1	20
Acetochlor	1.95	2.30		ug/L		118	70 - 130	2	20
Alachlor	1.95	2.07		ug/L		106	70 - 130	3	20
alpha-BHC	1.95	2.10		ug/L		107	70 - 130	2	20
alpha-Chlordane	1.95	2.00		ug/L		102	70 - 130	3	20
Anthracene	1.95	1.88		ug/L		96	70 - 130	0	20
Atrazine	1.95	2.15		ug/L		110	70 - 130	6	20

Eurofins Eaton Analytical Pomona

# QC Sample Results

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

Job ID: 380-142325-1  
SDG: Weekly

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

**Lab Sample ID: LCSD 380-144043/24-A**  
**Matrix: Water**  
**Analysis Batch: 144294**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 144043**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
Benz(a)anthracene	1.95	1.99		ug/L		102	70 - 130	4	20	
Benzo[a]pyrene	1.95	1.97		ug/L		101	70 - 130	1	20	
Benzo[b]fluoranthene	1.95	2.18		ug/L		112	70 - 130	1	20	
Benzo[g,h,i]perylene	1.95	1.98		ug/L		101	70 - 130	4	20	
Benzo[k]fluoranthene	1.95	2.19		ug/L		112	70 - 130	0	20	
beta-BHC	1.95	2.25		ug/L		115	70 - 130	4	20	
Bis(2-ethylhexyl) phthalate	1.95	2.05		ug/L		105	70 - 130	0	20	
Bromacil	1.95	2.16		ug/L		110	70 - 130	8	20	
Butachlor	1.95	2.28		ug/L		117	70 - 130	4	20	
Butylbenzylphthalate	1.95	2.17		ug/L		111	70 - 130	3	20	
Chlorobenzilate	1.95	2.13		ug/L		109	70 - 130	6	20	
Chloroneb	1.95	2.12		ug/L		108	70 - 130	2	20	
Chlorothalonil (Draconil, Bravo)	1.95	2.20		ug/L		113	70 - 130	6	20	
Chlorpyrifos	1.95	2.07		ug/L		106	70 - 130	5	20	
Chrysene	1.95	2.14		ug/L		109	70 - 130	0	20	
delta-BHC	1.95	2.13		ug/L		109	70 - 130	0	20	
Di(2-ethylhexyl)adipate	1.95	2.24		ug/L		115	70 - 130	6	20	
Dibenz(a,h)anthracene	1.95	1.95		ug/L		100	70 - 130	1	20	
Diclorvos (DDVP)	1.95	2.20		ug/L		113	70 - 130	7	20	
Dieldrin	1.95	2.20		ug/L		113	70 - 130	3	20	
Diethylphthalate	1.95	2.14		ug/L		109	70 - 130	0	20	
Dimethylphthalate	1.95	2.15		ug/L		110	70 - 130	3	20	
Di-n-butyl phthalate	3.90	4.71		ug/L		121	70 - 130	3	20	
Di-n-octyl phthalate	1.95	1.99		ug/L		102	70 - 130	1	20	
Endosulfan I (Alpha)	1.95	2.09		ug/L		107	70 - 130	1	20	
Endosulfan II (Beta)	1.95	2.18		ug/L		112	70 - 130	2	20	
Endosulfan sulfate	1.95	2.04		ug/L		105	70 - 130	2	20	
Endrin	1.95	2.20		ug/L		113	70 - 130	3	20	
Endrin aldehyde	1.95	1.96		ug/L		101	60 - 130	2	20	
EPTC	1.95	2.17		ug/L		111	70 - 130	2	20	
Fluoranthene	1.95	2.10		ug/L		108	70 - 130	3	20	
Fluorene	1.95	2.12		ug/L		109	70 - 130	4	20	
gamma-Chlordane	1.95	2.02		ug/L		103	70 - 130	5	20	
Heptachlor	1.95	2.08		ug/L		106	70 - 130	5	20	
Heptachlor epoxide (isomer B)	1.95	2.12		ug/L		108	70 - 130	2	20	
Hexachlorobenzene	1.95	2.05		ug/L		105	70 - 130	6	20	
Hexachlorocyclopentadiene	1.95	1.97		ug/L		101	70 - 130	11	20	
Indeno[1,2,3-cd]pyrene	1.95	2.13		ug/L		109	70 - 130	2	20	
Isophorone	1.95	2.15		ug/L		110	70 - 130	5	20	
Lindane	1.95	2.20		ug/L		113	70 - 130	4	20	
Malathion	1.95	2.06		ug/L		106	70 - 130	5	20	
Methoxychlor	1.95	1.96		ug/L		100	70 - 130	1	20	
Metolachlor	1.95	2.18		ug/L		112	70 - 130	3	20	
Molinate	1.95	2.23		ug/L		114	70 - 130	2	20	
Naphthalene	1.95	1.93		ug/L		99	70 - 130	3	20	
Parathion	1.95	2.09		ug/L		107	70 - 130	3	20	
Pendimethalin (Penoxaline)	1.95	2.00		ug/L		102	70 - 130	2	20	
Phenanthrene	1.95	2.00		ug/L		102	70 - 130	1	20	
Propachlor	1.95	2.33		ug/L		119	70 - 130	4	20	

Eurofins Eaton Analytical Pomona

# QC Sample Results

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

Job ID: 380-142325-1  
SDG: Weekly

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

**Lab Sample ID: LCSD 380-144043/24-A**  
**Matrix: Water**  
**Analysis Batch: 144294**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 144043**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Pyrene	1.95	2.10		ug/L		108	70 - 130	5	20
Simazine	1.95	2.10		ug/L		107	70 - 130	8	20
Terbacil	1.95	2.22		ug/L		114	70 - 130	6	20
Terbutylazine	1.95	2.14		ug/L		110	70 - 130	6	20
Thiobencarb	1.95	2.11		ug/L		108	70 - 130	2	20
trans-Nonachlor	1.95	1.96		ug/L		100	70 - 130	4	20
Trifluralin	1.95	1.83		ug/L		94	70 - 130	6	20

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
2-Nitro-m-xylene	98		70 - 130
Perylene-d12	94		70 - 130
Triphenylphosphate	105		70 - 130

**Lab Sample ID: MRL 380-144043/22-A**  
**Matrix: Water**  
**Analysis Batch: 144294**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 144043**

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	0.0976	0.105		ug/L		107	50 - 150
2,4'-DDD	0.0976	0.0817	J	ug/L		84	50 - 150
2,4'-DDE	0.0976	0.0957	J	ug/L		98	50 - 150
2,4'-DDT	0.0976	0.104		ug/L		107	50 - 150
2,4-Dinitrotoluene	0.0976	0.0996		ug/L		102	50 - 150
2,6-Dinitrotoluene	0.0976	0.123		ug/L		126	50 - 150
2-Methylnaphthalene	0.0976	0.101		ug/L		103	50 - 150
4,4'-DDD	0.0976	0.107		ug/L		110	50 - 150
4,4'-DDE	0.0976	0.0856	J	ug/L		88	50 - 150
4,4'-DDT	0.0976	0.111		ug/L		113	50 - 150
Acenaphthene	0.0976	0.0907	J	ug/L		93	50 - 150
Acenaphthylene	0.0976	0.0903	J	ug/L		93	50 - 150
Acetochlor	0.0976	0.107		ug/L		110	50 - 150
Alachlor	0.0488	0.0656		ug/L		135	50 - 150
alpha-BHC	0.0976	0.100		ug/L		102	50 - 150
alpha-Chlordane	0.0244	<0.028		ug/L		110	50 - 150
Anthracene	0.0195	0.0213		ug/L		109	50 - 150
Atrazine	0.0488	0.0684		ug/L		140	50 - 150
Benz(a)anthracene	0.0488	0.0746	^3+	ug/L		153	50 - 150
Benzo[a]pyrene	0.0195	0.0250		ug/L		128	50 - 150
Benzo[b]fluoranthene	0.0195	0.0283		ug/L		145	50 - 150
Benzo[g,h,i]perylene	0.0488	0.0646		ug/L		132	50 - 150
Benzo[k]fluoranthene	0.0195	0.0267		ug/L		137	50 - 150
beta-BHC	0.0976	0.110		ug/L		113	50 - 150
Bis(2-ethylhexyl) phthalate	0.586	0.576	J	ug/L		98	50 - 150
Bromacil	0.0976	0.122		ug/L		125	50 - 150
Butachlor	0.0488	0.0672		ug/L		138	50 - 150
Butylbenzylphthalate	0.488	0.515		ug/L		106	50 - 150
Chlorobenzilate	0.0976	0.109		ug/L		112	50 - 150
Chloroneb	0.0976	0.101		ug/L		103	50 - 150

# QC Sample Results

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

Job ID: 380-142325-1  
SDG: Weekly

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

**Lab Sample ID: MRL 380-144043/22-A**  
**Matrix: Water**  
**Analysis Batch: 144294**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 144043**

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Chlorothalonil (Draconil, Bravo)	0.0976	0.100		ug/L		103	50 - 150
Chlorpyrifos	0.0488	0.0650		ug/L		133	50 - 150
Chrysene	0.0195	0.0197	J	ug/L		101	50 - 150
delta-BHC	0.0976	0.101		ug/L		104	50 - 150
Di(2-ethylhexyl)adipate	0.586	0.610		ug/L		104	50 - 150
Dibenz(a,h)anthracene	0.0488	0.0656		ug/L		135	50 - 150
Diclorvos (DDVP)	0.0488	0.0595		ug/L		122	50 - 150
Dieldrin	0.00976	0.00965	J	ug/L		99	50 - 150
Diethylphthalate	0.488	0.522		ug/L		107	50 - 150
Dimethylphthalate	0.488	0.506		ug/L		104	50 - 150
Di-n-butyl phthalate	0.488	0.482	J	ug/L		99	49 - 243
Di-n-octyl phthalate	0.0976	0.0987		ug/L		101	50 - 150
Endosulfan I (Alpha)	0.0976	0.0848	J	ug/L		87	50 - 150
Endosulfan II (Beta)	0.0976	0.107		ug/L		109	50 - 150
Endosulfan sulfate	0.0976	0.111		ug/L		113	50 - 150
Endrin	0.00976	0.0118		ug/L		121	50 - 150
Endrin aldehyde	0.0976	0.113		ug/L		116	50 - 150
EPTC	0.0976	0.0934	J	ug/L		96	50 - 150
Fluoranthene	0.0976	0.102		ug/L		104	50 - 150
Fluorene	0.0488	<0.049		ug/L		99	50 - 150
gamma-Chlordane	0.0244	0.0276	J	ug/L		113	50 - 150
Heptachlor	0.00976	0.0132		ug/L		135	50 - 150
Heptachlor epoxide (isomer B)	0.00976	0.0110		ug/L		113	50 - 150
Hexachlorobenzene	0.0488	0.0470	J	ug/L		96	50 - 150
Hexachlorocyclopentadiene	0.0488	0.0635		ug/L		130	50 - 150
Indeno[1,2,3-cd]pyrene	0.0488	0.0702		ug/L		144	50 - 150
Isophorone	0.0976	0.114		ug/L		117	50 - 150
Lindane	0.00976	0.0132		ug/L		135	50 - 150
Malathion	0.0976	0.109		ug/L		111	50 - 150
Methoxychlor	0.0488	0.0718		ug/L		147	50 - 150
Metolachlor	0.0488	0.0633		ug/L		130	50 - 150
Molinate	0.0976	0.103		ug/L		105	50 - 150
Naphthalene	0.0976	0.0989		ug/L		101	50 - 150
Parathion	0.0976	0.0919	J	ug/L		94	50 - 150
Pendimethalin (Penoxaline)	0.0976	0.0933	J	ug/L		96	50 - 150
Phenanthrene	0.0390	0.0427		ug/L		109	50 - 150
Propachlor	0.0488	0.0517		ug/L		106	50 - 150
Pyrene	0.0488	0.0621		ug/L		127	50 - 150
Simazine	0.0488	0.0679		ug/L		139	50 - 150
Terbacil	0.0976	0.117		ug/L		120	50 - 150
Terbutylazine	0.0976	0.107		ug/L		110	50 - 150
Thiobencarb	0.0976	0.110		ug/L		113	50 - 150
trans-Nonachlor	0.0244	0.0285	J	ug/L		117	50 - 150
Trifluralin	0.0976	0.0987		ug/L		101	50 - 150

Surrogate	MRL %Recovery	MRL Qualifier	Limits
2-Nitro-m-xylene	97		70 - 130
Perylene-d12	94		70 - 130

# QC Sample Results

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

Job ID: 380-142325-1  
SDG: Weekly

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

**Lab Sample ID: MRL 380-144043/22-A**  
**Matrix: Water**  
**Analysis Batch: 144294**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 144043**

Surrogate	MRL %Recovery	MRL Qualifier	Limits
Triphenylphosphate	101		70 - 130

**Lab Sample ID: 380-142321-H-1-A MS**  
**Matrix: Water**  
**Analysis Batch: 144294**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**  
**Prep Batch: 144043**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
1-Methylnaphthalene	<0.097		1.96	1.98		ug/L		101	70 - 130
2,4'-DDD	<0.097		1.96	2.23		ug/L		114	70 - 130
2,4'-DDE	<0.097		1.96	2.15		ug/L		110	70 - 130
2,4'-DDT	<0.097		1.96	1.90		ug/L		97	70 - 130
2,4-Dinitrotoluene	<0.097		1.96	1.93		ug/L		98	70 - 130
2,6-Dinitrotoluene	<0.097		1.96	1.91		ug/L		98	70 - 130
2-Methylnaphthalene	<0.097		1.96	1.99		ug/L		102	70 - 130
4,4'-DDD	<0.097		1.96	1.98		ug/L		101	70 - 130
4,4'-DDE	<0.097		1.96	2.00		ug/L		102	70 - 130
4,4'-DDT	<0.097		1.96	1.90		ug/L		97	70 - 130
Acenaphthene	<0.097		1.96	1.96		ug/L		100	70 - 130
Acenaphthylene	<0.097		1.96	2.05		ug/L		104	70 - 130
Acetochlor	<0.097		1.96	2.24		ug/L		114	70 - 130
Alachlor	<0.048		1.96	2.01		ug/L		102	70 - 130
alpha-BHC	<0.097		1.96	2.06		ug/L		105	70 - 130
alpha-Chlordane	<0.048		1.96	2.03		ug/L		102	70 - 130
Anthracene	<0.019	F1	1.96	1.04	F1	ug/L		53	70 - 130
Atrazine	<0.048		1.96	2.08		ug/L		106	70 - 130
Benz(a)anthracene	<0.048	^3+	1.96	1.84		ug/L		94	70 - 130
Benzo[a]pyrene	<0.019		1.96	1.72		ug/L		88	70 - 130
Benzo[b]fluoranthene	<0.019		1.96	2.27		ug/L		116	70 - 130
Benzo[g,h,i]perylene	<0.048		1.96	1.82		ug/L		93	70 - 130
Benzo[k]fluoranthene	<0.019		1.96	2.16		ug/L		110	70 - 130
beta-BHC	<0.097		1.96	2.22		ug/L		113	70 - 130
Bis(2-ethylhexyl) phthalate	<0.58		1.96	1.90		ug/L		97	70 - 130
Bromacil	<0.097		1.96	2.27		ug/L		111	70 - 130
Butachlor	<0.048		1.96	2.24		ug/L		114	70 - 130
Butylbenzylphthalate	<0.48		1.96	2.18		ug/L		111	70 - 130
Chlorobenzilate	<0.097		1.96	2.14		ug/L		109	70 - 130
Chloroneb	<0.097		1.96	2.09		ug/L		107	70 - 130
Chlorothalonil (Draconil, Bravo)	<0.097		1.96	2.08		ug/L		106	70 - 130
Chlorpyrifos	<0.048		1.96	2.10		ug/L		107	70 - 130
Chrysene	<0.019		1.96	2.18		ug/L		111	70 - 130
delta-BHC	<0.097		1.96	2.10		ug/L		107	70 - 130
Di(2-ethylhexyl)adipate	<0.58		1.96	2.01		ug/L		103	70 - 130
Dibenz(a,h)anthracene	<0.048		1.96	1.88		ug/L		96	70 - 130
Diclorvos (DDVP)	<0.048		1.96	2.20		ug/L		112	70 - 130
Dieldrin	0.032		1.96	2.24		ug/L		113	70 - 130
Diethylphthalate	<0.48		1.96	2.10		ug/L		107	70 - 130
Dimethylphthalate	<0.48		1.96	2.09		ug/L		107	70 - 130
Di-n-butyl phthalate	<0.97		3.92	4.60		ug/L		117	70 - 130

# QC Sample Results

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

Job ID: 380-142325-1  
SDG: Weekly

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

**Lab Sample ID: 380-142321-H-1-A MS**  
**Matrix: Water**  
**Analysis Batch: 144294**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**  
**Prep Batch: 144043**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec
	Result	Qualifier	Added	Result	Qualifier				
Di-n-octyl phthalate	<0.097		1.96	1.74		ug/L		89	70 - 130
Endosulfan I (Alpha)	<0.097		1.96	2.10		ug/L		107	70 - 130
Endosulfan II (Beta)	<0.097		1.96	2.14		ug/L		109	70 - 130
Endosulfan sulfate	<0.097		1.96	1.97		ug/L		101	70 - 130
Endrin	<0.0097		1.96	2.19		ug/L		112	70 - 130
Endrin aldehyde	<0.097		1.96	1.85		ug/L		94	60 - 130
EPTC	<0.097		1.96	2.14		ug/L		109	70 - 130
Fluoranthene	<0.097		1.96	2.14		ug/L		109	70 - 130
Fluorene	<0.048		1.96	2.08		ug/L		106	70 - 130
gamma-Chlordane	<0.048		1.96	2.06		ug/L		104	70 - 130
Heptachlor	<0.0097		1.96	2.04		ug/L		104	70 - 130
Heptachlor epoxide (isomer B)	0.014		1.96	2.14		ug/L		109	70 - 130
Hexachlorobenzene	<0.048		1.96	1.98		ug/L		101	70 - 130
Hexachlorocyclopentadiene	<0.048		1.96	1.96		ug/L		100	70 - 130
Indeno[1,2,3-cd]pyrene	<0.048		1.96	2.09		ug/L		107	70 - 130
Isophorone	<0.097		1.96	2.12		ug/L		108	70 - 130
Lindane	<0.0097		1.96	2.16		ug/L		110	70 - 130
Malathion	<0.097		1.96	2.08		ug/L		106	70 - 130
Methoxychlor	<0.048		1.96	2.08		ug/L		106	70 - 130
Metolachlor	<0.048		1.96	2.13		ug/L		109	70 - 130
Molinate	<0.097		1.96	2.22		ug/L		113	70 - 130
Naphthalene	<0.097		1.96	1.91		ug/L		97	70 - 130
Parathion	<0.097		1.96	2.13		ug/L		108	70 - 130
Pendimethalin (Penoxaline)	<0.097		1.96	2.09		ug/L		107	70 - 130
Phenanthrene	<0.039		1.96	1.99		ug/L		102	70 - 130
Propachlor	<0.048		1.96	2.26		ug/L		115	70 - 130
Pyrene	<0.048		1.96	2.07		ug/L		106	70 - 130
Simazine	<0.048		1.96	2.06		ug/L		105	70 - 130
Terbacil	<0.097		1.96	2.07		ug/L		106	70 - 130
Terbutylazine	<0.097		1.96	2.09		ug/L		107	70 - 130
Thiobencarb	<0.097		1.96	2.12		ug/L		108	70 - 130
trans-Nonachlor	<0.048		1.96	1.97		ug/L		100	70 - 130
Trifluralin	<0.097		1.96	1.82		ug/L		93	70 - 130

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
2-Nitro-m-xylene	97		70 - 130
Perylene-d12	94		70 - 130
Triphenylphosphate	103		70 - 130

**Lab Sample ID: 380-141859-B-1-A DU**  
**Matrix: Water**  
**Analysis Batch: 144294**

**Client Sample ID: Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 144043**

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

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# QC Sample Results

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

Job ID: 380-142325-1  
SDG: Weekly

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

**Lab Sample ID: 380-141859-B-1-A DU**  
**Matrix: Water**  
**Analysis Batch: 144294**

**Client Sample ID: Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 144043**

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
2,4-Dinitrotoluene	<0.097		<0.097		ug/L		NC	20
2,6-Dinitrotoluene	<0.097		<0.097		ug/L		NC	20
2-Methylnaphthalene	<0.097		<0.097		ug/L		NC	20
4,4'-DDD	<0.097		<0.097		ug/L		NC	20
4,4'-DDE	<0.097		<0.097		ug/L		NC	20
4,4'-DDT	<0.097		<0.097		ug/L		NC	20
Acenaphthene	<0.097		<0.097		ug/L		NC	20
Acenaphthylene	<0.097		<0.097		ug/L		NC	20
Acetochlor	<0.097		<0.097		ug/L		NC	20
Alachlor	<0.049		<0.048		ug/L		NC	20
alpha-BHC	<0.097		<0.097		ug/L		NC	20
alpha-Chlordane	<0.049		<0.048		ug/L		NC	20
Anthracene	<0.019		<0.019		ug/L		NC	20
Atrazine	<0.049		<0.048		ug/L		NC	20
Benz(a)anthracene	<0.049	^3+	<0.048		ug/L		NC	20
Benzo[a]pyrene	<0.019		<0.019		ug/L		NC	20
Benzo[b]fluoranthene	<0.019		<0.019		ug/L		NC	20
Benzo[g,h,i]perylene	<0.049		<0.048		ug/L		NC	20
Benzo[k]fluoranthene	<0.019		<0.019		ug/L		NC	20
beta-BHC	<0.097		<0.097		ug/L		NC	20
Bis(2-ethylhexyl) phthalate	<0.58		<0.58		ug/L		NC	20
Bromacil	<0.097		<0.097		ug/L		NC	20
Butachlor	<0.049		<0.048		ug/L		NC	20
Butylbenzylphthalate	<0.49		<0.48		ug/L		NC	20
Chlorobenzilate	<0.097		<0.097		ug/L		NC	20
Chloroneb	<0.097		<0.097		ug/L		NC	20
Chlorothalonil (Draconil, Bravo)	<0.097		<0.097		ug/L		NC	20
Chlorpyrifos	<0.049		<0.048		ug/L		NC	20
Chrysene	<0.019		<0.019		ug/L		NC	20
delta-BHC	<0.097		<0.097		ug/L		NC	20
Di(2-ethylhexyl)adipate	<0.58		<0.58		ug/L		NC	20
Dibenz(a,h)anthracene	<0.049		<0.048		ug/L		NC	20
Diclorvos (DDVP)	<0.049		<0.048		ug/L		NC	20
Dieldrin	<0.0097		<0.0097		ug/L		NC	20
Diethylphthalate	<0.49		<0.48		ug/L		NC	20
Dimethylphthalate	<0.49		<0.48		ug/L		NC	20
Di-n-butyl phthalate	<0.97		<0.97		ug/L		NC	20
Di-n-octyl phthalate	<0.097		<0.097		ug/L		NC	20
Endosulfan I (Alpha)	<0.097		<0.097		ug/L		NC	20
Endosulfan II (Beta)	<0.097		<0.097		ug/L		NC	20
Endosulfan sulfate	<0.097		<0.097		ug/L		NC	20
Endrin	<0.0097		<0.0097		ug/L		NC	20
Endrin aldehyde	<0.097		<0.097		ug/L		NC	20
EPTC	<0.097		<0.097		ug/L		NC	20
Fluoranthene	<0.097		<0.097		ug/L		NC	20
Fluorene	<0.049		<0.048		ug/L		NC	20
gamma-Chlordane	<0.049		<0.048		ug/L		NC	20
Heptachlor	<0.0097		<0.0097		ug/L		NC	20
Heptachlor epoxide (isomer B)	<0.0097		<0.0097		ug/L		NC	20

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# QC Sample Results

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

Job ID: 380-142325-1  
SDG: Weekly

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

**Lab Sample ID: 380-141859-B-1-A DU**  
**Matrix: Water**  
**Analysis Batch: 144294**

**Client Sample ID: Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 144043**

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
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	<0.097		<0.097		ug/L		NC	20
Lindane	<0.0097		<0.0097		ug/L		NC	20
Malathion	<0.097		<0.097		ug/L		NC	20
Methoxychlor	<0.049		<0.048		ug/L		NC	20
Metolachlor	<0.049		<0.048		ug/L		NC	20
Molinate	<0.097		<0.097		ug/L		NC	20
Naphthalene	<0.097		<0.097		ug/L		NC	20
Parathion	<0.097		<0.097		ug/L		NC	20
Pendimethalin (Penoxaline)	<0.097		<0.097		ug/L		NC	20
Phenanthrene	<0.039		<0.039		ug/L		NC	20
Propachlor	<0.049		<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	<0.097		<0.097		ug/L		NC	20
Terbutylazine	<0.097		<0.097		ug/L		NC	20
Thiobencarb	<0.097		<0.097		ug/L		NC	20
Total Permethrin (mixed isomers)	<0.19		<0.19		ug/L		NC	20
trans-Nonachlor	<0.049		<0.048		ug/L		NC	20
Trifluralin	<0.097		<0.097		ug/L		NC	20

Surrogate	DU	DU	Limits
	%Recovery	Qualifier	
2-Nitro-m-xylene	96		70 - 130
Perylene-d12	75		70 - 130
Triphenylphosphate	98		70 - 130

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

**Lab Sample ID: MB 570-550397/1-A**  
**Matrix: Water**  
**Analysis Batch: 554064**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 550397**

Tentatively Identified Compound	MB	MB	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	03/27/25 13:47	04/05/25 10:43	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2,4,6-Tribromophenol (Surr)	67		33 - 139	03/27/25 13:47	04/05/25 10:43	1
2-Fluorobiphenyl (Surr)	104		33 - 126	03/27/25 13:47	04/05/25 10:43	1
2-Fluorophenol (Surr)	35		12 - 120	03/27/25 13:47	04/05/25 10:43	1
Nitrobenzene-d5 (Surr)	104		36 - 120	03/27/25 13:47	04/05/25 10:43	1
Phenol-d6 (Surr)	23		10 - 120	03/27/25 13:47	04/05/25 10:43	1
p-Terphenyl-d14 (Surr)	105		47 - 131	03/27/25 13:47	04/05/25 10:43	1

Eurofins Eaton Analytical Pomona

# QC Sample Results

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

Job ID: 380-142325-1  
SDG: Weekly

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

**Lab Sample ID: MB 570-550397/1-A**  
**Matrix: Water**  
**Analysis Batch: 554058**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 550397**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.20		0.20	ug/L		03/27/25 13:47	04/05/25 09:03	1
2-Methylnaphthalene	<0.20		0.20	ug/L		03/27/25 13:47	04/05/25 09:03	1
Acenaphthene	<0.20		0.20	ug/L		03/27/25 13:47	04/05/25 09:03	1
Acenaphthylene	<0.20		0.20	ug/L		03/27/25 13:47	04/05/25 09:03	1
Anthracene	<0.20		0.20	ug/L		03/27/25 13:47	04/05/25 09:03	1
Benzo[a]anthracene	<0.20		0.20	ug/L		03/27/25 13:47	04/05/25 09:03	1
Benzo[a]pyrene	<0.20		0.20	ug/L		03/27/25 13:47	04/05/25 09:03	1
Benzo[b]fluoranthene	<0.20		0.20	ug/L		03/27/25 13:47	04/05/25 09:03	1
Benzo[g,h,i]perylene	<0.20		0.20	ug/L		03/27/25 13:47	04/05/25 09:03	1
Benzo[k]fluoranthene	<0.20		0.20	ug/L		03/27/25 13:47	04/05/25 09:03	1
Chrysene	<0.20		0.20	ug/L		03/27/25 13:47	04/05/25 09:03	1
Dibenz(a,h)anthracene	<0.20		0.20	ug/L		03/27/25 13:47	04/05/25 09:03	1
Fluoranthene	<0.20		0.20	ug/L		03/27/25 13:47	04/05/25 09:03	1
Fluorene	<0.20		0.20	ug/L		03/27/25 13:47	04/05/25 09:03	1
Indeno[1,2,3-cd]pyrene	<0.20		0.20	ug/L		03/27/25 13:47	04/05/25 09:03	1
Naphthalene	<0.20		0.20	ug/L		03/27/25 13:47	04/05/25 09:03	1
Phenanthrene	<0.20		0.20	ug/L		03/27/25 13:47	04/05/25 09:03	1
Pyrene	<0.20		0.20	ug/L		03/27/25 13:47	04/05/25 09:03	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	81		28 - 127	03/27/25 13:47	04/05/25 09:03	1
2-Fluorobiphenyl (Surr)	89		31 - 120	03/27/25 13:47	04/05/25 09:03	1
2-Fluorophenol (Surr)	34		17 - 120	03/27/25 13:47	04/05/25 09:03	1
Nitrobenzene-d5 (Surr)	88		27 - 120	03/27/25 13:47	04/05/25 09:03	1
Phenol-d6 (Surr)	23		10 - 120	03/27/25 13:47	04/05/25 09:03	1
p-Terphenyl-d14 (Surr)	101		45 - 120	03/27/25 13:47	04/05/25 09:03	1

**Lab Sample ID: LCS 570-550397/2-A**  
**Matrix: Water**  
**Analysis Batch: 554058**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 550397**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	20.0	14.2		ug/L		71	47 - 120
2-Methylnaphthalene	20.0	15.8		ug/L		79	43 - 120
Acenaphthene	20.0	18.0		ug/L		90	60 - 132
Acenaphthylene	20.0	17.2		ug/L		86	54 - 126
Anthracene	20.0	17.3		ug/L		86	43 - 120
Benzo[a]anthracene	20.0	17.6		ug/L		88	42 - 133
Benzo[a]pyrene	20.0	16.9		ug/L		84	32 - 148
Benzo[b]fluoranthene	20.0	16.7		ug/L		83	42 - 140
Benzo[g,h,i]perylene	20.0	17.3		ug/L		86	1 - 195
Benzo[k]fluoranthene	20.0	16.3		ug/L		82	25 - 146
Chrysene	20.0	16.8		ug/L		84	44 - 140
Dibenz(a,h)anthracene	20.0	18.8		ug/L		94	1 - 200
Fluoranthene	20.0	16.8		ug/L		84	43 - 121
Fluorene	20.0	17.1		ug/L		86	70 - 120
Indeno[1,2,3-cd]pyrene	20.0	18.2		ug/L		91	1 - 151
Naphthalene	20.0	14.5		ug/L		72	36 - 120

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# QC Sample Results

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

Job ID: 380-142325-1  
SDG: Weekly

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

**Lab Sample ID: LCS 570-550397/2-A**  
**Matrix: Water**  
**Analysis Batch: 554058**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 550397**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Phenanthrene	20.0	17.6		ug/L		88	65 - 120
Pyrene	20.0	19.1		ug/L		96	70 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	87		28 - 127
2-Fluorobiphenyl (Surr)	96		31 - 120
2-Fluorophenol (Surr)	51		17 - 120
Nitrobenzene-d5 (Surr)	81		27 - 120
Phenol-d6 (Surr)	31		10 - 120
p-Terphenyl-d14 (Surr)	103		45 - 120

**Lab Sample ID: LCSD 570-550397/3-A**  
**Matrix: Water**  
**Analysis Batch: 554058**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 550397**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
1-Methylnaphthalene	20.0	13.5		ug/L		68	47 - 120	5	20
2-Methylnaphthalene	20.0	15.3		ug/L		76	43 - 120	3	20
Acenaphthene	20.0	16.5		ug/L		82	60 - 132	9	29
Acenaphthylene	20.0	16.0		ug/L		80	54 - 126	8	45
Anthracene	20.0	16.9		ug/L		84	43 - 120	2	40
Benzo[a]anthracene	20.0	17.1		ug/L		86	42 - 133	3	32
Benzo[a]pyrene	20.0	16.2		ug/L		81	32 - 148	4	43
Benzo[b]fluoranthene	20.0	17.3		ug/L		86	42 - 140	3	43
Benzo[g,h,i]perylene	20.0	16.3		ug/L		82	1 - 195	6	61
Benzo[k]fluoranthene	20.0	16.1		ug/L		80	25 - 146	2	38
Chrysene	20.0	16.3		ug/L		82	44 - 140	3	53
Dibenz(a,h)anthracene	20.0	17.7		ug/L		89	1 - 200	6	75
Fluoranthene	20.0	16.3		ug/L		82	43 - 121	3	40
Fluorene	20.0	16.0		ug/L		80	70 - 120	7	23
Indeno[1,2,3-cd]pyrene	20.0	17.2		ug/L		86	1 - 151	6	60
Naphthalene	20.0	13.8		ug/L		69	36 - 120	5	39
Phenanthrene	20.0	17.0		ug/L		85	65 - 120	4	24
Pyrene	20.0	18.2		ug/L		91	70 - 120	5	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	85		28 - 127
2-Fluorobiphenyl (Surr)	92		31 - 120
2-Fluorophenol (Surr)	51		17 - 120
Nitrobenzene-d5 (Surr)	75		27 - 120
Phenol-d6 (Surr)	32		10 - 120
p-Terphenyl-d14 (Surr)	96		45 - 120

# QC Sample Results

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

Job ID: 380-142325-1  
SDG: Weekly

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

**Lab Sample ID: 380-142325-3 MS**

**Matrix: Drinking Water**

**Analysis Batch: 554061**

**Client Sample ID: MOANALUA WELLS (331-223-TP202)**

**Prep Type: Total/NA**

**Prep Batch: 550397**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier					
1-Methylnaphthalene	<0.19		19.5	14.4		ug/L		74		36 - 120
2-Methylnaphthalene	<0.19		19.5	16.6		ug/L		85		32 - 124
Acenaphthene	<0.19		19.5	17.4		ug/L		89		47 - 145
Acenaphthylene	<0.19		19.5	17.0		ug/L		87		33 - 145
Anthracene	<0.19		19.5	17.6		ug/L		90		27 - 133
Benzo[a]anthracene	<0.19		19.5	18.2		ug/L		93		33 - 143
Benzo[a]pyrene	<0.19		19.5	18.1		ug/L		93		17 - 163
Benzo[b]fluoranthene	<0.19		19.5	18.4		ug/L		94		24 - 159
Benzo[g,h,i]perylene	<0.19		19.5	16.3		ug/L		83		1 - 219
Benzo[k]fluoranthene	<0.19		19.5	17.9		ug/L		92		11 - 162
Chrysene	<0.19		19.5	17.8		ug/L		91		17 - 168
Dibenz(a,h)anthracene	<0.19		19.5	17.5		ug/L		89		1 - 227
Fluoranthene	<0.19		19.5	18.4		ug/L		94		26 - 137
Fluorene	<0.19		19.5	17.5		ug/L		90		59 - 121
Indeno[1,2,3-cd]pyrene	<0.19		19.5	17.5		ug/L		90		1 - 171
Naphthalene	<0.19		19.5	14.0		ug/L		72		21 - 133
Phenanthrene	<0.19		19.5	17.5		ug/L		90		54 - 120
Pyrene	<0.19		19.5	18.2		ug/L		93		52 - 120

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	85		28 - 127
2-Fluorobiphenyl (Surr)	95		31 - 120
2-Fluorophenol (Surr)	47		17 - 120
Nitrobenzene-d5 (Surr)	77		27 - 120
Phenol-d6 (Surr)	30		10 - 120
p-Terphenyl-d14 (Surr)	100		45 - 120

**Lab Sample ID: 380-142325-3 MSD**

**Matrix: Drinking Water**

**Analysis Batch: 554061**

**Client Sample ID: MOANALUA WELLS (331-223-TP202)**

**Prep Type: Total/NA**

**Prep Batch: 550397**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier							
1-Methylnaphthalene	<0.19		19.6	15.5		ug/L		79		36 - 120	8	30
2-Methylnaphthalene	<0.19		19.6	17.5		ug/L		89		32 - 124	5	30
Acenaphthene	<0.19		19.6	18.2		ug/L		93		47 - 145	5	48
Acenaphthylene	<0.19		19.6	17.8		ug/L		91		33 - 145	5	74
Anthracene	<0.19		19.6	18.6		ug/L		95		27 - 133	5	66
Benzo[a]anthracene	<0.19		19.6	19.6		ug/L		100		33 - 143	7	53
Benzo[a]pyrene	<0.19		19.6	19.6		ug/L		100		17 - 163	8	72
Benzo[b]fluoranthene	<0.19		19.6	20.2		ug/L		103		24 - 159	9	71
Benzo[g,h,i]perylene	<0.19		19.6	18.8		ug/L		96		1 - 219	14	97
Benzo[k]fluoranthene	<0.19		19.6	19.5		ug/L		100		11 - 162	9	63
Chrysene	<0.19		19.6	19.1		ug/L		98		17 - 168	7	87
Dibenz(a,h)anthracene	<0.19		19.6	19.4		ug/L		99		1 - 227	11	126
Fluoranthene	<0.19		19.6	19.1		ug/L		98		26 - 137	4	66
Fluorene	<0.19		19.6	17.9		ug/L		91		59 - 121	2	38
Indeno[1,2,3-cd]pyrene	<0.19		19.6	19.7		ug/L		101		1 - 171	12	99
Naphthalene	<0.19		19.6	14.8		ug/L		76		21 - 133	6	65

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# QC Sample Results

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

Job ID: 380-142325-1  
SDG: Weekly

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

**Lab Sample ID: 380-142325-3 MSD**  
**Matrix: Drinking Water**  
**Analysis Batch: 554061**

**Client Sample ID: MOANALUA WELLS (331-223-TP202)**  
**Prep Type: Total/NA**  
**Prep Batch: 550397**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Phenanthrene	<0.19		19.6	18.3		ug/L		93	54 - 120	4	39
Pyrene	<0.19		19.6	19.4		ug/L		99	52 - 120	7	49
		MSD %Recovery	MSD Qualifier	Limits							
<b>Surrogate</b>											
2,4,6-Tribromophenol (Surr)		87		28 - 127							
2-Fluorobiphenyl (Surr)		99		31 - 120							
2-Fluorophenol (Surr)		49		17 - 120							
Nitrobenzene-d5 (Surr)		84		27 - 120							
Phenol-d6 (Surr)		30		10 - 120							
p-Terphenyl-d14 (Surr)		106		45 - 120							

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

**Lab Sample ID: MB 570-552661/6**  
**Matrix: Water**  
**Analysis Batch: 552661**

**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			04/02/25 14:50	1
		MB %Recovery	MB Qualifier	Limits		Prepared	Analyzed	Dil Fac
<b>Surrogate</b>								
4-Bromofluorobenzene (Surr)		90		38 - 134			04/02/25 14:50	1

**Lab Sample ID: LCS 570-552661/4**  
**Matrix: Water**  
**Analysis Batch: 552661**

**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	361		ug/L		90	78 - 120		
		LCS %Recovery	LCS Qualifier	Limits					
<b>Surrogate</b>									
4-Bromofluorobenzene (Surr)		93		38 - 134					

**Lab Sample ID: LCSD 570-552661/5**  
**Matrix: Water**  
**Analysis Batch: 552661**

**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	346		ug/L		86	78 - 120	4	10
		LCSD %Recovery	LCSD Qualifier	Limits					
<b>Surrogate</b>									
4-Bromofluorobenzene (Surr)		95		38 - 134					

# QC Sample Results

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

Job ID: 380-142325-1  
SDG: Weekly

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

**Lab Sample ID: MRL 570-552661/3**  
**Matrix: Water**  
**Analysis Batch: 552661**

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (C4-C13)	10.0	12.1		ug/L		121	50 - 150
<b>Surrogate</b>	<b>%Recovery</b>	<b>MRL Qualifier</b>	<b>MRL Limits</b>				
4-Bromofluorobenzene (Surr)	90		38 - 134				

**Lab Sample ID: 380-142325-3 MS**  
**Matrix: Drinking Water**  
**Analysis Batch: 552661**

**Client Sample ID: MOANALUA WELLS (331-223-TP202)**  
**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	F1	2000	359	F1	ug/L		18	68 - 122
<b>Surrogate</b>	<b>%Recovery</b>	<b>MS Qualifier</b>	<b>MS Limits</b>						
4-Bromofluorobenzene (Surr)	92		38 - 134						

**Lab Sample ID: 380-142325-3 MSD**  
**Matrix: Drinking Water**  
**Analysis Batch: 552661**

**Client Sample ID: MOANALUA WELLS (331-223-TP202)**  
**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	F1	2000	348	F1	ug/L		17	68 - 122	3	18
<b>Surrogate</b>	<b>%Recovery</b>	<b>MSD Qualifier</b>	<b>MSD Limits</b>								
4-Bromofluorobenzene (Surr)	91		38 - 134								

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

**Lab Sample ID: MB 570-550527/1-A**  
**Matrix: Water**  
**Analysis Batch: 554206**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 550527**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	<25		25	ug/L		03/27/25 18:16	04/05/25 18:35	1
Motor Oil Range Organics [C24-C36]	<25		25	ug/L		03/27/25 18:16	04/05/25 18:35	1
C8-C18	<25		25	ug/L		03/27/25 18:16	04/05/25 18:35	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>MB Qualifier</b>	<b>MB Limits</b>	<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>		
n-Octacosane (Surr)	82		60 - 130	03/27/25 18:16	04/05/25 18:35	1		

**Lab Sample ID: LCS 570-550527/2-A**  
**Matrix: Water**  
**Analysis Batch: 554206**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 550527**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
C10-C28	1600	1480		ug/L		93	56 - 127

Eurofins Eaton Analytical Pomona

# QC Sample Results

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

Job ID: 380-142325-1  
SDG: Weekly

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

**Lab Sample ID: LCS 570-550527/2-A**  
**Matrix: Water**  
**Analysis Batch: 554206**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 550527**

	LCS %Recovery	LCS Qualifier	Limits
<i>n-Octacosane (Surr)</i>	80		60 - 130

**Lab Sample ID: LCSD 570-550527/3-A**  
**Matrix: Water**  
**Analysis Batch: 554206**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 550527**

	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
C10-C28	1600	1600		ug/L		100	56 - 127	7	23
<i>n-Octacosane (Surr)</i>									
	LCSD %Recovery	LCSD Qualifier				Limits			
<i>n-Octacosane (Surr)</i>	89					60 - 130			

**Lab Sample ID: MRL 570-550527/4-A**  
**Matrix: Water**  
**Analysis Batch: 554206**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 550527**

	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
C10-C28	0.0200	0.0338	^3+	mg/L		169	50 - 150		
<i>n-Octacosane (Surr)</i>									
	MRL %Recovery	MRL Qualifier				Limits			
<i>n-Octacosane (Surr)</i>	85					60 - 130			

**Lab Sample ID: 380-142325-3 MS**  
**Matrix: Drinking Water**  
**Analysis Batch: 554206**

**Client Sample ID: MOANALUA WELLS (331-223-TP202)**  
**Prep Type: Total/NA**  
**Prep Batch: 550527**

	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
C10-C28	<26	^3+	1670	1570		ug/L		94	70 - 130		
<i>n-Octacosane (Surr)</i>											
	MS %Recovery	MS Qualifier				Limits					
<i>n-Octacosane (Surr)</i>	84					60 - 130					

**Lab Sample ID: 380-142325-3 MSD**  
**Matrix: Drinking Water**  
**Analysis Batch: 554206**

**Client Sample ID: MOANALUA WELLS (331-223-TP202)**  
**Prep Type: Total/NA**  
**Prep Batch: 550527**

	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
C10-C28	<26	^3+	1680	1680		ug/L		100	70 - 130	7	20
<i>n-Octacosane (Surr)</i>											
	MSD %Recovery	MSD Qualifier				Limits					
<i>n-Octacosane (Surr)</i>	86					60 - 130					

# QC Association Summary

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

Job ID: 380-142325-1  
SDG: Weekly

## GC/MS Semi VOA

### Prep Batch: 144043

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-142325-1	Ka'amilo Wells	Total/NA	Water	525.2	
380-142325-3	MOANALUA WELLS (331-223-TP202)	Total/NA	Drinking Water	525.2	
MB 380-144043/21-A	Method Blank	Total/NA	Water	525.2	
LCS 380-144043/23-A	Lab Control Sample	Total/NA	Water	525.2	
LCSD 380-144043/24-A	Lab Control Sample Dup	Total/NA	Water	525.2	
MRL 380-144043/22-A	Lab Control Sample	Total/NA	Water	525.2	
380-142321-H-1-A MS	Matrix Spike	Total/NA	Water	525.2	
380-141859-B-1-A DU	Duplicate	Total/NA	Water	525.2	

### Analysis Batch: 144294

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-142325-1	Ka'amilo Wells	Total/NA	Water	525.2	144043
380-142325-3	MOANALUA WELLS (331-223-TP202)	Total/NA	Drinking Water	525.2	144043
MB 380-144043/21-A	Method Blank	Total/NA	Water	525.2	144043
LCS 380-144043/23-A	Lab Control Sample	Total/NA	Water	525.2	144043
LCSD 380-144043/24-A	Lab Control Sample Dup	Total/NA	Water	525.2	144043
MRL 380-144043/22-A	Lab Control Sample	Total/NA	Water	525.2	144043
380-142321-H-1-A MS	Matrix Spike	Total/NA	Water	525.2	144043
380-141859-B-1-A DU	Duplicate	Total/NA	Water	525.2	144043

### Prep Batch: 550397

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-142325-1	Ka'amilo Wells	Total/NA	Water	625.1	
380-142325-3	MOANALUA WELLS (331-223-TP202)	Total/NA	Drinking Water	625.1	
MB 570-550397/1-A	Method Blank	Total/NA	Water	625.1	
LCS 570-550397/2-A	Lab Control Sample	Total/NA	Water	625.1	
LCSD 570-550397/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	
380-142325-3 MS	MOANALUA WELLS (331-223-TP202)	Total/NA	Drinking Water	625.1	
380-142325-3 MSD	MOANALUA WELLS (331-223-TP202)	Total/NA	Drinking Water	625.1	

### Analysis Batch: 554058

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-550397/1-A	Method Blank	Total/NA	Water	625.1 SIM	550397
LCS 570-550397/2-A	Lab Control Sample	Total/NA	Water	625.1 SIM	550397
LCSD 570-550397/3-A	Lab Control Sample Dup	Total/NA	Water	625.1 SIM	550397

### Analysis Batch: 554061

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-142325-1	Ka'amilo Wells	Total/NA	Water	625.1 SIM	550397
380-142325-3	MOANALUA WELLS (331-223-TP202)	Total/NA	Drinking Water	625.1 SIM	550397
380-142325-3 MS	MOANALUA WELLS (331-223-TP202)	Total/NA	Drinking Water	625.1 SIM	550397
380-142325-3 MSD	MOANALUA WELLS (331-223-TP202)	Total/NA	Drinking Water	625.1 SIM	550397

### Analysis Batch: 554064

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-142325-1	Ka'amilo Wells	Total/NA	Water	625.1	550397
380-142325-3	MOANALUA WELLS (331-223-TP202)	Total/NA	Drinking Water	625.1	550397
MB 570-550397/1-A	Method Blank	Total/NA	Water	625.1	550397

# QC Association Summary

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

Job ID: 380-142325-1  
SDG: Weekly

## GC VOA

### Analysis Batch: 552661

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-142325-1	Ka'amilo Wells	Total/NA	Water	8015B GRO LL	
380-142325-2	Ka'amilo Wells - TB	Total/NA	Water	8015B GRO LL	
380-142325-3	MOANALUA WELLS (331-223-TP202)	Total/NA	Drinking Water	8015B GRO LL	
380-142325-4	MOANALUA WELLS (331-223-TP202) - TB	Total/NA	Water	8015B GRO LL	
MB 570-552661/6	Method Blank	Total/NA	Water	8015B GRO LL	
LCS 570-552661/4	Lab Control Sample	Total/NA	Water	8015B GRO LL	
LCSD 570-552661/5	Lab Control Sample Dup	Total/NA	Water	8015B GRO LL	
MRL 570-552661/3	Lab Control Sample	Total/NA	Water	8015B GRO LL	
380-142325-3 MS	MOANALUA WELLS (331-223-TP202)	Total/NA	Drinking Water	8015B GRO LL	
380-142325-3 MSD	MOANALUA WELLS (331-223-TP202)	Total/NA	Drinking Water	8015B GRO LL	

## GC Semi VOA

### Prep Batch: 550527

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-142325-1	Ka'amilo Wells	Total/NA	Water	3510C	
380-142325-3	MOANALUA WELLS (331-223-TP202)	Total/NA	Drinking Water	3510C	
MB 570-550527/1-A	Method Blank	Total/NA	Water	3510C	
LCS 570-550527/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 570-550527/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MRL 570-550527/4-A	Lab Control Sample	Total/NA	Water	3510C	
380-142325-3 MS	MOANALUA WELLS (331-223-TP202)	Total/NA	Drinking Water	3510C	
380-142325-3 MSD	MOANALUA WELLS (331-223-TP202)	Total/NA	Drinking Water	3510C	

### Analysis Batch: 554206

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-142325-1	Ka'amilo Wells	Total/NA	Water	8015B	550527
380-142325-3	MOANALUA WELLS (331-223-TP202)	Total/NA	Drinking Water	8015B	550527
MB 570-550527/1-A	Method Blank	Total/NA	Water	8015B	550527
LCS 570-550527/2-A	Lab Control Sample	Total/NA	Water	8015B	550527
LCSD 570-550527/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	550527
MRL 570-550527/4-A	Lab Control Sample	Total/NA	Water	8015B	550527
380-142325-3 MS	MOANALUA WELLS (331-223-TP202)	Total/NA	Drinking Water	8015B	550527
380-142325-3 MSD	MOANALUA WELLS (331-223-TP202)	Total/NA	Drinking Water	8015B	550527

# Lab Chronicle

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

Job ID: 380-142325-1  
SDG: Weekly

**Client Sample ID: Ka'amilo Wells**

**Lab Sample ID: 380-142325-1**

Date Collected: 03/24/25 11:49

Matrix: Water

Date Received: 03/26/25 09:37

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			144043	KRD3	EA POM	03/27/25 08:13
Total/NA	Analysis	525.2		1	144294	UPAC	EA POM	03/28/25 15:34
Total/NA	Prep	625.1			550397	UD4J	EET CAL 4	03/27/25 13:47
Total/NA	Analysis	625.1		1	554064	PQS1	EET CAL 4	04/05/25 11:06
Total/NA	Prep	625.1			550397	UD4J	EET CAL 4	03/27/25 13:47
Total/NA	Analysis	625.1 SIM		1	554061	PQS1	EET CAL 4	04/05/25 13:04
Total/NA	Analysis	8015B GRO LL		1	552661	A9VE	EET CAL 4	04/02/25 22:58
Total/NA	Prep	3510C			550527	TVD6	EET CAL 4	03/27/25 18:18
Total/NA	Analysis	8015B		1	554206	E5RH	EET CAL 4	04/05/25 20:46

**Client Sample ID: Ka'amilo Wells - TB**

**Lab Sample ID: 380-142325-2**

Date Collected: 03/24/25 11:49

Matrix: Water

Date Received: 03/26/25 09:37

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015B GRO LL		1	552661	A9VE	EET CAL 4	04/02/25 16:15

**Client Sample ID: MOANALUA WELLS (331-223-TP202)**

**Lab Sample ID: 380-142325-3**

Date Collected: 03/24/25 09:37

Matrix: Drinking Water

Date Received: 03/26/25 09:37

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			144043	KRD3	EA POM	03/27/25 08:13
Total/NA	Analysis	525.2		1	144294	UPAC	EA POM	03/28/25 15:14
Total/NA	Prep	625.1			550397	UD4J	EET CAL 4	03/27/25 13:47
Total/NA	Analysis	625.1		1	554064	PQS1	EET CAL 4	04/05/25 11:29
Total/NA	Prep	625.1			550397	UD4J	EET CAL 4	03/27/25 13:47
Total/NA	Analysis	625.1 SIM		1	554061	PQS1	EET CAL 4	04/05/25 12:42
Total/NA	Analysis	8015B GRO LL		1	552661	A9VE	EET CAL 4	04/02/25 17:54
Total/NA	Prep	3510C			550527	TVD6	EET CAL 4	03/27/25 18:18
Total/NA	Analysis	8015B		1	554206	E5RH	EET CAL 4	04/05/25 20:24

**Client Sample ID: MOANALUA WELLS (331-223-TP202) - TB**

**Lab Sample ID: 380-142325-4**

Date Collected: 03/24/25 09:37

Matrix: Water

Date Received: 03/26/25 09:37

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015B GRO LL		1	552661	A9VE	EET CAL 4	04/02/25 16:40

**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: 380-142325-1  
SDG: Weekly

## Laboratory: Eurofins Eaton Analytical Pomona

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

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

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

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

\* Accreditation/Certification renewal pending - accreditation/certification considered valid.

# Accreditation/Certification Summary

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

Job ID: 380-142325-1  
SDG: Weekly

## Laboratory: Eurofins Eaton Analytical Pomona (Continued)

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

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

## Laboratory: Eurofins Calscience

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

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

# Method Summary

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

Job ID: 380-142325-1  
SDG: Weekly

Method	Method Description	Protocol	Laboratory
525.2	Semivolatile Organic Compounds (GC/MS)	EPA	EA POM
625.1	Semivolatile Organic Compounds (GC/MS)	EPA	EET CAL 4
625.1 SIM	Semivolatile Organic Compounds GC/MS (SIM)	EPA	EET CAL 4
8015B GRO LL	Gasoline Range Organics - (GC)	SW846	EET CAL 4
8015B	Diesel Range Organics (DRO) (GC) Low Level	SW846	EET CAL 4
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET CAL 4
5030C	Purge and Trap	SW846	EET CAL 4
525.2	Extraction of Semivolatile Compounds	EPA	EA POM
625.1	Liquid-Liquid Extraction	40CFR136A	EET CAL 4

#### Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

#### Laboratory References:

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

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

# Sample Summary

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

Job ID: 380-142325-1  
SDG: Weekly

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	PWSID Number
380-142325-1	Ka'amilo Wells	Water	03/24/25 11:49	03/26/25 09:37	HI0000331
380-142325-2	Ka'amilo Wells - TB	Water	03/24/25 11:49	03/26/25 09:37	
380-142325-3	MOANALUA WELLS (331-223-TP202)	Drinking Water	03/24/25 09:37	03/26/25 09:37	HI0000331
380-142325-4	MOANALUA WELLS (331-223-TP202) - TB	Water	03/24/25 09:37	03/26/25 09:37	

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**Chain of Custody Record**

<b>Client Information</b>		Lab PM: Arada, Rachelle		Carrier Tracking No(s): 380-28005-2757 1	
Client Contact: Kirk Iwamoto		E-Mail: Rachelle.Arada@et.eurofins.com		Page: Page 1 of 1	
Company: City & County of Honolulu		PWSID:		Job #:	
Address: 630 South Beretania Street Chemistry Lab		Due Date Requested:		Preservation Codes: R - NaThioSO4 RA - NaThioHCl Q - Na2SO3 QA - Na2SO3/HCl Y - Trizma I - NH4 Acetate	
City: Honolulu		TAT Requested (days):		Other:	
State: HI, 96843		Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Total Number of Containers:	
Phone: 808-748-5840 (Tel)		PO #: C20525101 exp 05312023		Special Instructions/Note: pump 2 running	
Email: kiwamoto@hbws.org		WO #:		pump 3 running	
Project Name: RED-HILL/HBWS Sites Event Desc: RUSH Weekly Red Hill		Project #: 38001111		380-142325 COC	
Site: Hawaii		SSOW#:			

  

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=water, BT=Issue, A=Air)	Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		Analysis Requested		Special Instructions/Note	
					R	RA	Q	QA	Y	I		533 - All Analytes
Ka'amilo Wells	24-Mar-2025	1149	G	Water					2	3	2	
Ka'amilo Wells (Matrix Spike)				Water								
Ka'amilo Wells (Matrix Spike Duplicate)	24-Mar-2025	1149		Water					2			
TB· Ka'amilo Wells				Water								
Moanalua Wells	24-Mar-2025	0937	G	Water	X	X	X	X	4	5	4	2
Moanalua Wells (Matrix Spike)				Water	X	X	X	X				
Moanalua Wells (Matrix Spike Duplicate)				Water	X	X	X	X				
TB· Moanalua Wells	24-Mar-2025	0937		Water					2			

  

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

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

**Empty Kit Relinquished by** [Redacted] **Date:** [Redacted]

**Received by:** [Signature] **Date/Time:** 03/26/25 09:37 **Company:** HBWS

**Received by:** [Signature] **Date/Time:** [Redacted] **Company:** [Redacted]

**Received by:** [Signature] **Date/Time:** [Redacted] **Company:** [Redacted]

**Custody Seal No.**  $631A(10.4) - 0.0 - 0.0 = 0.4 / 2(0.2 - 0.0 - 0.0) = 0.2$  **REL**



**Eurofins Eaton Analytical Pomona**

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

**Chain of Custody Record**



Environment Testing

<b>Client Information (Sub Contract Lab)</b>		Sampler: N/A	Lab PM: Arada, Rachele	Carrier Tracking No(s): N/A	COC No: 380-202063.1							
Client Contact: Shipping/Receiving		Phone: N/A	E-Mail: Rachele.Arada@et.eurofinsus.com	State of Origin: Hawaii	Page: Page 1 of 1							
Company: Eurofins Environment Testing Southwest			Accreditations Required (See note): State - Hawaii		Job #: 380-142325-1							
Address: 2841 Dow Avenue, Suite 100, City: Tustin State, Zip: CA, 92780		Due Date Requested: 4/8/2025	<b>Analysis Requested</b>			Preservation Codes:						
City: Tustin		TAT Requested (days): N/A										
Phone: 714-895-5494(Tel)		PO #: N/A	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015B_DRO_LL_CS0510C_LL HNL Ranges: C10-C24/C24-C36/C36-C10	8015B_GRO_LLJ5030C (MOD) GRO	625.1_SIMI625_Prep (MOD) Extended PAH List	Total Number of Containers	Other: N/A			
Email: N/A		WO #: N/A										
Project Name: RED-HILL		Project #: 38001111										
Site: Honolulu BWS Sites		SSOW#: N/A										
<b>Sample Identification - Client ID (Lab ID)</b>		<b>Sample Date</b>	<b>Sample Time</b>	<b>Sample Type (C=Comp, G=grab)</b>	<b>Matrix (Water, Solid, Gas/Liq, BT=Tissue, A=Air)</b>	<b>Field Filtered Sample (Yes or No)</b>	<b>Perform MS/MSD (Yes or No)</b>	<b>8015B_DRO_LL_CS0510C_LL HNL Ranges: C10-C24/C24-C36/C36-C10</b>	<b>8015B_GRO_LLJ5030C (MOD) GRO</b>	<b>625.1_SIMI625_Prep (MOD) Extended PAH List</b>	<b>Total Number of Containers</b>	<b>Special Instructions/Note:</b>
MOANALUA WELLS (331-223-TP202) (380-142325-3MS)		3/24/25	09:37 Hawaiian	G	Water			X	X	X	9	MRLs are needed. Confirm any hits >RL.
MOANALUA WELLS (331-223-TP202) (380-142325-3MSD)		3/24/25	09:37 Hawaiian	G	Water			X	X	X	9	MRLs are needed. Confirm any hits >RL.
MOANALUA WELLS (331-223-TP202) - TB (380-142325-4)		3/24/25	09:37 Hawaiian	G	Water				X		9	MRLs are needed.
<p>Note: Since laboratory accreditations are subject to change, Eurofins Eaton Analytical, LLC places the ownership of method, analyte &amp; 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.</p>												
<b>Possible Hazard Identification</b>						<b>Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)</b>						
Unconfirmed						<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months						
Deliverable Requested: I, II, III, IV, Other (specify)						Special Instructions/QC Requirements:						
Empty Kit Relinquished by:						Date:		Time:		Method of Shipment:		
Relinquished by: <i>Mark Urcuth</i>		Date/Time: <i>3/26/25 1510</i>		Company: <i>EEAF</i>		Received by: <i>[Signature]</i>		Date/Time: <i>3-26-25 1510</i>		Company: <i>WJP</i>		
Relinquished by: <i>[Signature]</i>		Date/Time: <i>3-26-25 1638</i>		Company: <i>WJP</i>		Received by: <i>[Signature]</i>		Date/Time: <i>3-26-25 16:38</i>		Company: <i>EC</i>		
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: <i>2.3   2.3 TR92</i>						



# Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-142325-1

SDG Number: Weekly

**Login Number: 142325**

**List Number: 1**

**Creator: Segura, Ryan**

**List Source: Eurofins Eaton Analytical Pomona**

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



## Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-142325-1

SDG Number: Weekly

**Login Number: 142325**

**List Number: 2**

**Creator: Khana, Piyush**

**List Source: Eurofins Calscience**

**List Creation: 03/26/25 06:48 PM**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> 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 <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	