

# ANALYTICAL REPORT

## PREPARED FOR

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## JOB DESCRIPTION

RED-HILL  
Weekly: Moanalua Wells  
RUSH Weekly Red Hill

## JOB NUMBER

380-177174-1

# Eurofins Eaton Analytical Pomona

## Job Notes

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

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

## Compliance Statement

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

## Authorization



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## Definitions/Glossary

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

Job ID: 380-177174-1  
SDG: Weekly: Moanalua Wells

### Qualifiers

#### GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD 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
*1	LCS/LCSD RPD 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: 380-177174-1

**Job ID: 380-177174-1**

**Eurofins Eaton Analytical Pomona**

## Job Narrative 380-177174-1

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

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

### Receipt

The samples were received on 10/15/2025 10:27 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 6 coolers at receipt time were 2.2°C, 2.8°C, 3.6°C, 4.3°C, 4.8°C and 5.9°C.

### GC/MS Semi VOA

Method 625.1\_SIM: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 570-642969 and analytical batch 570-646236 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) precision was within acceptance limits.

Method 625.1\_SIM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for the following sample associated with preparation batch 570-642969 and analytical batch 570-646236 were outside control limits: (380-177173-A-1-A MS). The associated laboratory control sample (LCS) recovery met acceptance criteria.

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 RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 570-646066 recovered outside control limits for the following analyte: Gasoline Range Organics (C4-C13). Laboratory control sample / laboratory control sample duplicate (LCS/LCSD) percent recovery is in control for affected analyte.

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 570-642248 and analytical batch 570-646397 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.

Eurofins Eaton Analytical Pomona

# Detection Summary

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

Job ID: 380-177174-1  
SDG: Weekly: Moanalua Wells

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

**Lab Sample ID: 380-177174-1**

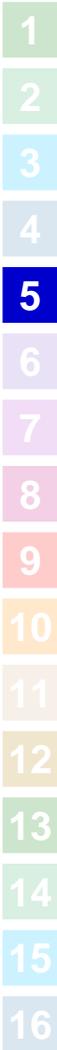
Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Dieldrin	0.024		0.0097	ug/L	1		525.2	Total/NA

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

**Lab Sample ID: 380-177174-2**

No Detections.

This Detection Summary does not include radiochemical test results.



# Client Sample Results

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

Job ID: 380-177174-1  
SDG: Weekly: Moanalua Wells

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

**Lab Sample ID: 380-177174-1**

Date Collected: 10/13/25 10:03

Matrix: Drinking Water

Date Received: 10/15/25 10:27

PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.097		0.097	ug/L		10/21/25 13:08	10/22/25 17:22	1
2,4'-DDD	<0.097		0.097	ug/L		10/21/25 13:08	10/22/25 17:22	1
2,4'-DDE	<0.097		0.097	ug/L		10/21/25 13:08	10/22/25 17:22	1
2,4'-DDT	<0.097		0.097	ug/L		10/21/25 13:08	10/22/25 17:22	1
2,4-Dinitrotoluene	<0.097		0.097	ug/L		10/21/25 13:08	10/22/25 17:22	1
2,6-Dinitrotoluene	<0.097		0.097	ug/L		10/21/25 13:08	10/22/25 17:22	1
2-Methylnaphthalene	<0.097		0.097	ug/L		10/21/25 13:08	10/22/25 17:22	1
4,4'-DDD	<0.097		0.097	ug/L		10/21/25 13:08	10/22/25 17:22	1
4,4'-DDE	<0.097		0.097	ug/L		10/21/25 13:08	10/22/25 17:22	1
4,4'-DDT	<0.097		0.097	ug/L		10/21/25 13:08	10/22/25 17:22	1
Acenaphthene	<0.097		0.097	ug/L		10/21/25 13:08	10/22/25 17:22	1
Acenaphthylene	<0.097		0.097	ug/L		10/21/25 13:08	10/22/25 17:22	1
Acetochlor	<0.097		0.097	ug/L		10/21/25 13:08	10/22/25 17:22	1
Alachlor	<0.049		0.049	ug/L		10/21/25 13:08	10/22/25 17:22	1
alpha-BHC	<0.097		0.097	ug/L		10/21/25 13:08	10/22/25 17:22	1
alpha-Chlordane	<0.049		0.049	ug/L		10/21/25 13:08	10/22/25 17:22	1
Anthracene	<0.019		0.019	ug/L		10/21/25 13:08	10/22/25 17:22	1
Atrazine	<0.049		0.049	ug/L		10/21/25 13:08	10/22/25 17:22	1
Benz(a)anthracene	<0.049		0.049	ug/L		10/21/25 13:08	10/22/25 17:22	1
Benzo[a]pyrene	<0.019		0.019	ug/L		10/21/25 13:08	10/22/25 17:22	1
Benzo[b]fluoranthene	<0.019		0.019	ug/L		10/21/25 13:08	10/22/25 17:22	1
Benzo[g,h,i]perylene	<0.049		0.049	ug/L		10/21/25 13:08	10/22/25 17:22	1
Benzo[k]fluoranthene	<0.019		0.019	ug/L		10/21/25 13:08	10/22/25 17:22	1
beta-BHC	<0.097		0.097	ug/L		10/21/25 13:08	10/22/25 17:22	1
Bis(2-ethylhexyl) phthalate	<0.58		0.58	ug/L		10/21/25 13:08	10/22/25 17:22	1
Bromacil	<0.097		0.097	ug/L		10/21/25 13:08	10/22/25 17:22	1
Butachlor	<0.049		0.049	ug/L		10/21/25 13:08	10/22/25 17:22	1
Butylbenzylphthalate	<0.49		0.49	ug/L		10/21/25 13:08	10/22/25 17:22	1
Chlorobenzilate	<0.097		0.097	ug/L		10/21/25 13:08	10/22/25 17:22	1
Chloroneb	<0.097		0.097	ug/L		10/21/25 13:08	10/22/25 17:22	1
Chlorothalonil (Draconil, Bravo)	<0.097		0.097	ug/L		10/21/25 13:08	10/22/25 17:22	1
Chlorpyrifos	<0.049		0.049	ug/L		10/21/25 13:08	10/22/25 17:22	1
Chrysene	<0.019		0.019	ug/L		10/21/25 13:08	10/22/25 17:22	1
delta-BHC	<0.097		0.097	ug/L		10/21/25 13:08	10/22/25 17:22	1
Di(2-ethylhexyl)adipate	<0.58		0.58	ug/L		10/21/25 13:08	10/22/25 17:22	1
Dibenz(a,h)anthracene	<0.049		0.049	ug/L		10/21/25 13:08	10/22/25 17:22	1
Diclorvos (DDVP)	<0.049		0.049	ug/L		10/21/25 13:08	10/22/25 17:22	1
<b>Dieldrin</b>	<b>0.024</b>		0.0097	ug/L		10/21/25 13:08	10/22/25 17:22	1
Diethylphthalate	<0.49		0.49	ug/L		10/21/25 13:08	10/22/25 17:22	1
Dimethylphthalate	<0.49		0.49	ug/L		10/21/25 13:08	10/22/25 17:22	1
Di-n-butyl phthalate	<0.97		0.97	ug/L		10/21/25 13:08	10/22/25 17:22	1
Di-n-octyl phthalate	<0.097		0.097	ug/L		10/21/25 13:08	10/22/25 17:22	1
Endosulfan I (Alpha)	<0.097		0.097	ug/L		10/21/25 13:08	10/22/25 17:22	1
Endosulfan II (Beta)	<0.097		0.097	ug/L		10/21/25 13:08	10/22/25 17:22	1
Endosulfan sulfate	<0.097		0.097	ug/L		10/21/25 13:08	10/22/25 17:22	1
Endrin	<0.0097		0.0097	ug/L		10/21/25 13:08	10/22/25 17:22	1
Endrin aldehyde	<0.097		0.097	ug/L		10/21/25 13:08	10/22/25 17:22	1
EPTC	<0.097		0.097	ug/L		10/21/25 13:08	10/22/25 17:22	1
Fluoranthene	<0.097		0.097	ug/L		10/21/25 13:08	10/22/25 17:22	1

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# Client Sample Results

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

Job ID: 380-177174-1  
SDG: Weekly: Moanalua Wells

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

**Lab Sample ID: 380-177174-1**

Date Collected: 10/13/25 10:03

Matrix: Drinking Water

Date Received: 10/15/25 10:27

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		10/21/25 13:08	10/22/25 17:22	1
gamma-Chlordane	<0.049		0.049	ug/L		10/21/25 13:08	10/22/25 17:22	1
Heptachlor	<0.0097		0.0097	ug/L		10/21/25 13:08	10/22/25 17:22	1
Heptachlor epoxide (isomer B)	<0.0097		0.0097	ug/L		10/21/25 13:08	10/22/25 17:22	1
Hexachlorobenzene	<0.049		0.049	ug/L		10/21/25 13:08	10/22/25 17:22	1
Hexachlorocyclopentadiene	<0.049		0.049	ug/L		10/21/25 13:08	10/22/25 17:22	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049	ug/L		10/21/25 13:08	10/22/25 17:22	1
Isophorone	<0.097		0.097	ug/L		10/21/25 13:08	10/22/25 17:22	1
Lindane	<0.0097		0.0097	ug/L		10/21/25 13:08	10/22/25 17:22	1
Malathion	<0.097		0.097	ug/L		10/21/25 13:08	10/22/25 17:22	1
Methoxychlor	<0.049		0.049	ug/L		10/21/25 13:08	10/22/25 17:22	1
Metolachlor	<0.049		0.049	ug/L		10/21/25 13:08	10/22/25 17:22	1
Molinate	<0.097		0.097	ug/L		10/21/25 13:08	10/22/25 17:22	1
Naphthalene	<0.097		0.097	ug/L		10/21/25 13:08	10/22/25 17:22	1
Parathion	<0.097		0.097	ug/L		10/21/25 13:08	10/22/25 17:22	1
Pendimethalin (Penoxaline)	<0.097		0.097	ug/L		10/21/25 13:08	10/22/25 17:22	1
Phenanthrene	<0.039		0.039	ug/L		10/21/25 13:08	10/22/25 17:22	1
Propachlor	<0.049		0.049	ug/L		10/21/25 13:08	10/22/25 17:22	1
Pyrene	<0.049		0.049	ug/L		10/21/25 13:08	10/22/25 17:22	1
Simazine	<0.049		0.049	ug/L		10/21/25 13:08	10/22/25 17:22	1
Terbacil	<0.097		0.097	ug/L		10/21/25 13:08	10/22/25 17:22	1
Terbutylazine	<0.097		0.097	ug/L		10/21/25 13:08	10/22/25 17:22	1
Thiobencarb	<0.097		0.097	ug/L		10/21/25 13:08	10/22/25 17:22	1
Total Permethrin (mixed isomers)	<0.19		0.19	ug/L		10/21/25 13:08	10/22/25 17:22	1
trans-Nonachlor	<0.049		0.049	ug/L		10/21/25 13:08	10/22/25 17:22	1
Trifluralin	<0.097		0.097	ug/L		10/21/25 13:08	10/22/25 17:22	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	10/21/25 13:08	10/22/25 17:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	100		70 - 130	10/21/25 13:08	10/22/25 17:22	1
Perylene-d12	86		70 - 130	10/21/25 13:08	10/22/25 17:22	1
Triphenylphosphate	106		70 - 130	10/21/25 13:08	10/22/25 17:22	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.19		0.19	ug/L		10/20/25 06:11	10/26/25 05:47	1
2-Methylnaphthalene	<0.19		0.19	ug/L		10/20/25 06:11	10/26/25 05:47	1
Acenaphthene	<0.19		0.19	ug/L		10/20/25 06:11	10/26/25 05:47	1
Acenaphthylene	<0.19		0.19	ug/L		10/20/25 06:11	10/26/25 05:47	1
Anthracene	<0.19		0.19	ug/L		10/20/25 06:11	10/26/25 05:47	1
Benzo[a]anthracene	<0.19		0.19	ug/L		10/20/25 06:11	10/26/25 05:47	1
Benzo[a]pyrene	<0.19		0.19	ug/L		10/20/25 06:11	10/26/25 05:47	1
Benzo[b]fluoranthene	<0.19		0.19	ug/L		10/20/25 06:11	10/26/25 05:47	1
Benzo[g,h,i]perylene	<0.19		0.19	ug/L		10/20/25 06:11	10/26/25 05:47	1
Benzo[k]fluoranthene	<0.19		0.19	ug/L		10/20/25 06:11	10/26/25 05:47	1
Chrysene	<0.19		0.19	ug/L		10/20/25 06:11	10/26/25 05:47	1
Dibenz(a,h)anthracene	<0.19		0.19	ug/L		10/20/25 06:11	10/26/25 05:47	1
Fluoranthene	<0.19		0.19	ug/L		10/20/25 06:11	10/26/25 05:47	1

Eurofins Eaton Analytical Pomona

# Client Sample Results

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

Job ID: 380-177174-1  
SDG: Weekly: Moanalua Wells

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

**Lab Sample ID: 380-177174-1**

Date Collected: 10/13/25 10:03

Matrix: Drinking Water

Date Received: 10/15/25 10:27

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	<0.19		0.19	ug/L		10/20/25 06:11	10/26/25 05:47	1
Indeno[1,2,3-cd]pyrene	<0.19		0.19	ug/L		10/20/25 06:11	10/26/25 05:47	1
Naphthalene	<0.19		0.19	ug/L		10/20/25 06:11	10/26/25 05:47	1
Phenanthrene	<0.19		0.19	ug/L		10/20/25 06:11	10/26/25 05:47	1
Pyrene	<0.19		0.19	ug/L		10/20/25 06:11	10/26/25 05:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	76		28 - 127	10/20/25 06:11	10/26/25 05:47	1
2-Fluorobiphenyl (Surr)	67		31 - 120	10/20/25 06:11	10/26/25 05:47	1
2-Fluorophenol (Surr)	46		17 - 120	10/20/25 06:11	10/26/25 05:47	1
Nitrobenzene-d5 (Surr)	76		27 - 120	10/20/25 06:11	10/26/25 05:47	1
Phenol-d6 (Surr)	31		10 - 120	10/20/25 06:11	10/26/25 05:47	1
p-Terphenyl-d14 (Surr)	79		45 - 120	10/20/25 06:11	10/26/25 05:47	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
Butane, 2-chloro-2-methyl-	35	T J N	ug/L		1.92	594-36-5	10/20/25 06:11	10/26/25 05:48	1
Furan, 2,5-dimethyl-	15	T J N	ug/L		2.01	625-86-5	10/20/25 06:11	10/26/25 05:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	81		33 - 139	10/20/25 06:11	10/26/25 05:48	1
2-Fluorobiphenyl (Surr)	88		33 - 126	10/20/25 06:11	10/26/25 05:48	1
2-Fluorophenol (Surr)	57		12 - 120	10/20/25 06:11	10/26/25 05:48	1
Nitrobenzene-d5 (Surr)	93		36 - 120	10/20/25 06:11	10/26/25 05:48	1
Phenol-d6 (Surr)	34		10 - 120	10/20/25 06:11	10/26/25 05:48	1
p-Terphenyl-d14 (Surr)	84		47 - 131	10/20/25 06:11	10/26/25 05:48	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	<10		10	ug/L			10/25/25 14:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		38 - 134		10/25/25 14:51	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)	<25		25	ug/L		10/17/25 15:32	10/26/25 20:48	1
Motor Oil Range Organics [C24-C36]	<25		25	ug/L		10/17/25 15:32	10/26/25 20:48	1
C8-C18	<25		25	ug/L		10/17/25 15:32	10/26/25 20:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	108		60 - 130	10/17/25 15:32	10/26/25 20:48	1

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

**Lab Sample ID: 380-177174-2**

Date Collected: 10/13/25 10:03

Matrix: Water

Date Received: 10/15/25 10:27

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	<10		10	ug/L			10/25/25 18:32	1

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# Client Sample Results

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

Job ID: 380-177174-1  
 SDG: Weekly: Moanalua Wells

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

**Lab Sample ID: 380-177174-2**

Date Collected: 10/13/25 10:03

Matrix: Water

Date Received: 10/15/25 10:27

<u>Surrogate</u>	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Dil Fac</u>
4-Bromofluorobenzene (Surr)	85		38 - 134		10/25/25 18:32	1

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

# Action Limit Summary

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

Job ID: 380-177174-1  
SDG: Weekly: Moanalua Wells

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

**Lab Sample ID: 380-177174-1**

**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	<0.019		ug/L	0.2	0.019	525.2	Total/NA
Bis(2-ethylhexyl) phthalate	<0.58		ug/L	6	0.58	525.2	Total/NA
Di(2-ethylhexyl)adipate	<0.58		ug/L	400	0.58	525.2	Total/NA
Endrin	<0.0097		ug/L	2	0.0097	525.2	Total/NA
Heptachlor	<0.0097		ug/L	0.4	0.0097	525.2	Total/NA
Heptachlor epoxide (isomer B)	<0.0097		ug/L	0.2	0.0097	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	<0.0097		ug/L	0.2	0.0097	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: 380-177174-1  
SDG: Weekly: Moanalua Wells

## 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)
380-177174-1	MOANALUA WELLS (331-223-TP2C	100	86	106

**Surrogate Legend**

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

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		2NMX (70-130)	PRY (70-130)	TPP (70-130)
380-177804-A-3-B MS	Matrix Spike	96	101	114
380-177804-A-3-C MSD	Matrix Spike Duplicate	98	101	118
LCS 380-181132/21-A	Lab Control Sample	97	97	105
LCSD 380-181132/22-A	Lab Control Sample Dup	99	96	108
MB 380-181132/19-A	Method Blank	99	85	103
MRL 380-181132/20-A	Lab Control Sample	99	86	102

**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)
380-177174-1	MOANALUA WELLS (331-223-TP2C	81	88	57	93	34	84

**Surrogate Legend**

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

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (33-139)	FBP (33-126)	2FP (12-120)	NBZ (36-120)	PHL6 (10-120)	TPHd14 (47-131)
MB 570-642969/1-A	Method Blank	89	87	60	93	34	83

**Surrogate Legend**

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

# Surrogate Summary

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

Job ID: 380-177174-1  
 SDG: Weekly: Moanalua Wells

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)
380-177174-1	MOANALUA WELLS (331-223-TP2C	76	67	46	76	31	79

**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)
380-177173-A-1-A MS	Matrix Spike	48	44	29	44	20	50
380-177173-A-1-B MSD	Matrix Spike Duplicate	84	75	53	82	36	84
LCS 570-642969/2-A	Lab Control Sample	78	71	53	77	37	83
LCSd 570-642969/3-A	Lab Control Sample Dup	81	75	58	70	40	83
MB 570-642969/1-A	Method Blank	76	68	50	78	33	73

**Surrogate Legend**

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

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

Matrix: Drinking Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)
		BFB1 (38-134)
380-177174-1	MOANALUA WELLS (331-223-TP2C	82

**Surrogate Legend**

BFB = 4-Bromofluorobenzene (Surr)

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)
		BFB1 (38-134)
380-177174-2	TB: MOANALUA WELLS (331-223-1	85
380-178070-B-1 MS	Matrix Spike	81

# Surrogate Summary

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

Job ID: 380-177174-1  
SDG: Weekly: Moanalua Wells

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

Matrix: Water

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB1 (38-134)
380-178070-B-1 MSD	Matrix Spike Duplicate	83
LCS 570-646066/4	Lab Control Sample	78
LCSD 570-646066/5	Lab Control Sample Dup	81
MB 570-646066/6	Method Blank	79
MRL 570-646066/3	Lab Control Sample	80

#### 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)
380-177174-1	MOANALUA WELLS (331-223-TP2)	108

#### Surrogate Legend

OTCSN = n-Octacosane (Surr)

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

Matrix: Water

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	OTCSN1 (60-130)
380-177173-C-1-A MS	Matrix Spike	120
380-177173-C-1-B MSD	Matrix Spike Duplicate	121
LCS 570-642248/2-A	Lab Control Sample	120
LCSD 570-642248/3-A	Lab Control Sample Dup	106
MB 570-642248/1-A	Method Blank	111
MRL 570-642248/4-A	Lab Control Sample	135

#### Surrogate Legend

OTCSN = n-Octacosane (Surr)

# QC Sample Results

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

Job ID: 380-177174-1  
 SDG: Weekly: Moanalua Wells

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

**Lab Sample ID: MB 380-181132/19-A**  
**Matrix: Water**  
**Analysis Batch: 181462**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 181132**

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
1-Methylnaphthalene	<0.097		0.097	ug/L		10/21/25 13:08	10/22/25 15:01	1
2,4'-DDD	<0.097		0.097	ug/L		10/21/25 13:08	10/22/25 15:01	1
2,4'-DDE	<0.097		0.097	ug/L		10/21/25 13:08	10/22/25 15:01	1
2,4'-DDT	<0.097		0.097	ug/L		10/21/25 13:08	10/22/25 15:01	1
2,4-Dinitrotoluene	<0.097		0.097	ug/L		10/21/25 13:08	10/22/25 15:01	1
2,6-Dinitrotoluene	<0.097		0.097	ug/L		10/21/25 13:08	10/22/25 15:01	1
2-Methylnaphthalene	<0.097		0.097	ug/L		10/21/25 13:08	10/22/25 15:01	1
4,4'-DDD	<0.097		0.097	ug/L		10/21/25 13:08	10/22/25 15:01	1
4,4'-DDE	<0.097		0.097	ug/L		10/21/25 13:08	10/22/25 15:01	1
4,4'-DDT	<0.097		0.097	ug/L		10/21/25 13:08	10/22/25 15:01	1
Acenaphthene	<0.097		0.097	ug/L		10/21/25 13:08	10/22/25 15:01	1
Acenaphthylene	<0.097		0.097	ug/L		10/21/25 13:08	10/22/25 15:01	1
Acetochlor	<0.097		0.097	ug/L		10/21/25 13:08	10/22/25 15:01	1
Alachlor	<0.049		0.049	ug/L		10/21/25 13:08	10/22/25 15:01	1
alpha-BHC	<0.097		0.097	ug/L		10/21/25 13:08	10/22/25 15:01	1
alpha-Chlordane	<0.049		0.049	ug/L		10/21/25 13:08	10/22/25 15:01	1
Anthracene	<0.019		0.019	ug/L		10/21/25 13:08	10/22/25 15:01	1
Atrazine	<0.049		0.049	ug/L		10/21/25 13:08	10/22/25 15:01	1
Benz(a)anthracene	<0.049		0.049	ug/L		10/21/25 13:08	10/22/25 15:01	1
Benzo[a]pyrene	<0.019		0.019	ug/L		10/21/25 13:08	10/22/25 15:01	1
Benzo[b]fluoranthene	<0.019		0.019	ug/L		10/21/25 13:08	10/22/25 15:01	1
Benzo[g,h,i]perylene	<0.049		0.049	ug/L		10/21/25 13:08	10/22/25 15:01	1
Benzo[k]fluoranthene	<0.019		0.019	ug/L		10/21/25 13:08	10/22/25 15:01	1
beta-BHC	<0.097		0.097	ug/L		10/21/25 13:08	10/22/25 15:01	1
Bis(2-ethylhexyl) phthalate	<0.58		0.58	ug/L		10/21/25 13:08	10/22/25 15:01	1
Bromacil	<0.097		0.097	ug/L		10/21/25 13:08	10/22/25 15:01	1
Butachlor	<0.049		0.049	ug/L		10/21/25 13:08	10/22/25 15:01	1
Butylbenzylphthalate	<0.49		0.49	ug/L		10/21/25 13:08	10/22/25 15:01	1
Chlorobenzilate	<0.097		0.097	ug/L		10/21/25 13:08	10/22/25 15:01	1
Chloroneb	<0.097		0.097	ug/L		10/21/25 13:08	10/22/25 15:01	1
Chlorothalonil (Draconil, Bravo)	<0.097		0.097	ug/L		10/21/25 13:08	10/22/25 15:01	1
Chlorpyrifos	<0.049		0.049	ug/L		10/21/25 13:08	10/22/25 15:01	1
Chrysene	<0.019		0.019	ug/L		10/21/25 13:08	10/22/25 15:01	1
delta-BHC	<0.097		0.097	ug/L		10/21/25 13:08	10/22/25 15:01	1
Di(2-ethylhexyl)adipate	<0.58		0.58	ug/L		10/21/25 13:08	10/22/25 15:01	1
Dibenz(a,h)anthracene	<0.049		0.049	ug/L		10/21/25 13:08	10/22/25 15:01	1
Diclorvos (DDVP)	<0.049		0.049	ug/L		10/21/25 13:08	10/22/25 15:01	1
Dieldrin	<0.0097		0.0097	ug/L		10/21/25 13:08	10/22/25 15:01	1
Diethylphthalate	<0.49		0.49	ug/L		10/21/25 13:08	10/22/25 15:01	1
Dimethylphthalate	<0.49		0.49	ug/L		10/21/25 13:08	10/22/25 15:01	1
Di-n-butyl phthalate	<0.97		0.97	ug/L		10/21/25 13:08	10/22/25 15:01	1
Di-n-octyl phthalate	<0.097		0.097	ug/L		10/21/25 13:08	10/22/25 15:01	1
Endosulfan I (Alpha)	<0.097		0.097	ug/L		10/21/25 13:08	10/22/25 15:01	1
Endosulfan II (Beta)	<0.097		0.097	ug/L		10/21/25 13:08	10/22/25 15:01	1
Endosulfan sulfate	<0.097		0.097	ug/L		10/21/25 13:08	10/22/25 15:01	1
Endrin	<0.0097		0.0097	ug/L		10/21/25 13:08	10/22/25 15:01	1
Endrin aldehyde	<0.097		0.097	ug/L		10/21/25 13:08	10/22/25 15:01	1
EPTC	<0.097		0.097	ug/L		10/21/25 13:08	10/22/25 15:01	1

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# QC Sample Results

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

Job ID: 380-177174-1  
SDG: Weekly: Moanalua Wells

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

Lab Sample ID: MB 380-181132/19-A

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 181462

Prep Batch: 181132

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Fluoranthene	<0.097		0.097	ug/L		10/21/25 13:08	10/22/25 15:01	1
Fluorene	<0.049		0.049	ug/L		10/21/25 13:08	10/22/25 15:01	1
gamma-Chlordane	<0.049		0.049	ug/L		10/21/25 13:08	10/22/25 15:01	1
Heptachlor	<0.0097		0.0097	ug/L		10/21/25 13:08	10/22/25 15:01	1
Heptachlor epoxide (isomer B)	<0.0097		0.0097	ug/L		10/21/25 13:08	10/22/25 15:01	1
Hexachlorobenzene	<0.049		0.049	ug/L		10/21/25 13:08	10/22/25 15:01	1
Hexachlorocyclopentadiene	<0.049		0.049	ug/L		10/21/25 13:08	10/22/25 15:01	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049	ug/L		10/21/25 13:08	10/22/25 15:01	1
Isophorone	<0.097		0.097	ug/L		10/21/25 13:08	10/22/25 15:01	1
Lindane	<0.0097		0.0097	ug/L		10/21/25 13:08	10/22/25 15:01	1
Malathion	<0.097		0.097	ug/L		10/21/25 13:08	10/22/25 15:01	1
Methoxychlor	<0.049		0.049	ug/L		10/21/25 13:08	10/22/25 15:01	1
Metolachlor	<0.049		0.049	ug/L		10/21/25 13:08	10/22/25 15:01	1
Molinate	<0.097		0.097	ug/L		10/21/25 13:08	10/22/25 15:01	1
Naphthalene	<0.097		0.097	ug/L		10/21/25 13:08	10/22/25 15:01	1
Parathion	<0.097		0.097	ug/L		10/21/25 13:08	10/22/25 15:01	1
Pendimethalin (Penoxaline)	<0.097		0.097	ug/L		10/21/25 13:08	10/22/25 15:01	1
Phenanthrene	<0.039		0.039	ug/L		10/21/25 13:08	10/22/25 15:01	1
Propachlor	<0.049		0.049	ug/L		10/21/25 13:08	10/22/25 15:01	1
Pyrene	<0.049		0.049	ug/L		10/21/25 13:08	10/22/25 15:01	1
Simazine	<0.049		0.049	ug/L		10/21/25 13:08	10/22/25 15:01	1
Terbacil	<0.097		0.097	ug/L		10/21/25 13:08	10/22/25 15:01	1
Terbutylazine	<0.097		0.097	ug/L		10/21/25 13:08	10/22/25 15:01	1
Thiobencarb	<0.097		0.097	ug/L		10/21/25 13:08	10/22/25 15:01	1
Total Permethrin (mixed isomers)	<0.19		0.19	ug/L		10/21/25 13:08	10/22/25 15:01	1
trans-Nonachlor	<0.049		0.049	ug/L		10/21/25 13:08	10/22/25 15:01	1
Trifluralin	<0.097		0.097	ug/L		10/21/25 13:08	10/22/25 15:01	1

Tentatively Identified Compound	MB	MB	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
	Est. Result	Qualifier							
Undecane	1.64	T J N	ug/L		3.13	1120-21-4	10/21/25 13:08	10/22/25 15:01	1
Phenol, p-tert-butyl-	1.21	T J N	ug/L		3.86	98-54-4	10/21/25 13:08	10/22/25 15:01	1
Phenol, 4-(1,1-dimethylpropyl)-	0.540	T J N	ug/L		4.26	80-46-6	10/21/25 13:08	10/22/25 15:01	1
Unknown	0.685	T J	ug/L		14.92	N/A	10/21/25 13:08	10/22/25 15:01	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2-Nitro-m-xylene	99		70 - 130	10/21/25 13:08	10/22/25 15:01	1
Perylene-d12	85		70 - 130	10/21/25 13:08	10/22/25 15:01	1
Triphenylphosphate	103		70 - 130	10/21/25 13:08	10/22/25 15:01	1

Lab Sample ID: LCS 380-181132/21-A

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 181462

Prep Batch: 181132

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
1-Methylnaphthalene	1.95	1.81		ug/L		93	70 - 130
2,4'-DDD	1.95	1.98		ug/L		102	70 - 130
2,4'-DDE	1.95	2.01		ug/L		103	70 - 130
2,4'-DDT	1.95	1.96		ug/L		101	70 - 130

Eurofins Eaton Analytical Pomona

# QC Sample Results

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

Job ID: 380-177174-1  
SDG: Weekly: Moanalua Wells

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

**Lab Sample ID: LCS 380-181132/21-A**

**Matrix: Water**

**Analysis Batch: 181462**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 181132**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4-Dinitrotoluene	1.95	1.92		ug/L		99	70 - 130
2,6-Dinitrotoluene	1.95	1.92		ug/L		99	70 - 130
2-Methylnaphthalene	1.95	1.81		ug/L		93	70 - 130
4,4'-DDD	1.95	2.00		ug/L		103	70 - 130
4,4'-DDE	1.95	2.04		ug/L		105	70 - 130
4,4'-DDT	1.95	1.78		ug/L		91	70 - 130
Acenaphthene	1.95	1.91		ug/L		98	70 - 130
Acenaphthylene	1.95	1.82		ug/L		93	70 - 130
Acetochlor	1.95	2.15		ug/L		110	70 - 130
Alachlor	1.95	2.12		ug/L		109	70 - 130
alpha-BHC	1.95	1.96		ug/L		101	70 - 130
alpha-Chlordane	1.95	1.97		ug/L		101	70 - 130
Anthracene	1.95	1.90		ug/L		97	70 - 130
Atrazine	1.95	2.00		ug/L		102	70 - 130
Benz(a)anthracene	1.95	1.76		ug/L		90	70 - 130
Benzo[a]pyrene	1.95	1.83		ug/L		94	70 - 130
Benzo[b]fluoranthene	1.95	1.94		ug/L		100	70 - 130
Benzo[g,h,i]perylene	1.95	1.95		ug/L		100	70 - 130
Benzo[k]fluoranthene	1.95	1.81		ug/L		93	70 - 130
beta-BHC	1.95	1.94		ug/L		100	70 - 130
Bis(2-ethylhexyl) phthalate	1.95	2.12		ug/L		109	70 - 130
Bromacil	1.95	2.11		ug/L		108	70 - 130
Butachlor	1.95	2.09		ug/L		107	70 - 130
Butylbenzylphthalate	1.95	2.13		ug/L		109	70 - 130
Chlorobenzilate	1.95	2.18		ug/L		112	70 - 130
Chloroneb	1.95	1.81		ug/L		93	70 - 130
Chlorothalonil (Draconil, Bravo)	1.95	2.04		ug/L		105	70 - 130
Chlorpyrifos	1.95	2.07		ug/L		106	70 - 130
Chrysene	1.95	1.80		ug/L		92	70 - 130
delta-BHC	1.95	1.96		ug/L		101	70 - 130
Di(2-ethylhexyl)adipate	1.95	2.22		ug/L		114	70 - 130
Dibenz(a,h)anthracene	1.95	1.93		ug/L		99	70 - 130
Diclorvos (DDVP)	1.95	1.94		ug/L		100	70 - 130
Dieldrin	1.95	1.92		ug/L		99	70 - 130
Diethylphthalate	1.95	2.07		ug/L		106	70 - 130
Dimethylphthalate	1.95	2.04		ug/L		105	70 - 130
Di-n-butyl phthalate	3.89	4.28		ug/L		110	70 - 130
Di-n-octyl phthalate	1.95	2.16		ug/L		111	70 - 130
Endosulfan I (Alpha)	1.95	1.88		ug/L		97	70 - 130
Endosulfan II (Beta)	1.95	1.97		ug/L		101	70 - 130
Endosulfan sulfate	1.95	2.02		ug/L		104	70 - 130
Endrin	1.95	2.01		ug/L		103	70 - 130
Endrin aldehyde	1.95	2.05		ug/L		105	60 - 130
EPTC	1.95	2.05		ug/L		105	70 - 130
Fluoranthene	1.95	2.03		ug/L		104	70 - 130
Fluorene	1.95	1.95		ug/L		100	70 - 130
gamma-Chlordane	1.95	2.00		ug/L		103	70 - 130
Heptachlor	1.95	1.99		ug/L		102	70 - 130
Heptachlor epoxide (isomer B)	1.95	2.03		ug/L		104	70 - 130

Eurofins Eaton Analytical Pomona

# QC Sample Results

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

Job ID: 380-177174-1  
SDG: Weekly: Moanalua Wells

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

Lab Sample ID: LCS 380-181132/21-A

Matrix: Water

Analysis Batch: 181462

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 181132

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Hexachlorobenzene	1.95	2.00		ug/L		102	70 - 130
Hexachlorocyclopentadiene	1.95	1.84		ug/L		94	70 - 130
Indeno[1,2,3-cd]pyrene	1.95	2.02		ug/L		104	70 - 130
Isophorone	1.95	1.99		ug/L		102	70 - 130
Lindane	1.95	1.90		ug/L		98	70 - 130
Malathion	1.95	1.99		ug/L		102	70 - 130
Methoxychlor	1.95	1.88		ug/L		96	70 - 130
Metolachlor	1.95	2.03		ug/L		104	70 - 130
Molinate	1.95	2.02		ug/L		104	70 - 130
Naphthalene	1.95	1.93		ug/L		99	70 - 130
Parathion	1.95	2.15		ug/L		110	70 - 130
Pendimethalin (Penoxaline)	1.95	1.91		ug/L		98	70 - 130
Phenanthrene	1.95	1.92		ug/L		99	70 - 130
Propachlor	1.95	2.11		ug/L		108	70 - 130
Pyrene	1.95	2.02		ug/L		104	70 - 130
Simazine	1.95	1.99		ug/L		102	70 - 130
Terbacil	1.95	2.11		ug/L		108	70 - 130
Terbutylazine	1.95	2.12		ug/L		109	70 - 130
Thiobencarb	1.95	2.07		ug/L		107	70 - 130
trans-Nonachlor	1.95	1.86		ug/L		96	70 - 130
Trifluralin	1.95	1.93		ug/L		99	70 - 130

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

Lab Sample ID: LCSD 380-181132/22-A

Matrix: Water

Analysis Batch: 181462

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 181132

Analyte	Spike Added	LCSD	LCSD	Unit	D	%Rec	%Rec Limits	RPD	
		Result	Qualifier					RPD	Limit
1-Methylnaphthalene	1.95	1.82		ug/L		94	70 - 130	1	20
2,4'-DDD	1.95	2.03		ug/L		105	70 - 130	3	20
2,4'-DDE	1.95	2.08		ug/L		107	70 - 130	3	20
2,4'-DDT	1.95	1.98		ug/L		102	70 - 130	1	20
2,4-Dinitrotoluene	1.95	2.06		ug/L		106	70 - 130	7	20
2,6-Dinitrotoluene	1.95	2.10		ug/L		108	70 - 130	8	20
2-Methylnaphthalene	1.95	1.84		ug/L		94	70 - 130	1	20
4,4'-DDD	1.95	2.05		ug/L		105	70 - 130	2	20
4,4'-DDE	1.95	2.09		ug/L		107	70 - 130	2	20
4,4'-DDT	1.95	1.84		ug/L		95	70 - 130	3	20
Acenaphthene	1.95	1.89		ug/L		97	70 - 130	1	20
Acenaphthylene	1.95	1.84		ug/L		94	70 - 130	1	20
Acetochlor	1.95	2.14		ug/L		110	70 - 130	0	20
Alachlor	1.95	2.19		ug/L		112	70 - 130	3	20
alpha-BHC	1.95	2.04		ug/L		105	70 - 130	4	20
alpha-Chlordane	1.95	2.02		ug/L		104	70 - 130	3	20

Eurofins Eaton Analytical Pomona

# QC Sample Results

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

Job ID: 380-177174-1  
SDG: Weekly: Moanalua Wells

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

Lab Sample ID: LCSD 380-181132/22-A

Matrix: Water

Analysis Batch: 181462

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 181132

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec	RPD	RPD
	Added	Result	Qualifier				Limits		Limit
Anthracene	1.95	1.93		ug/L		99	70 - 130	2	20
Atrazine	1.95	2.17		ug/L		111	70 - 130	8	20
Benz(a)anthracene	1.95	1.81		ug/L		93	70 - 130	3	20
Benzo[a]pyrene	1.95	1.86		ug/L		95	70 - 130	1	20
Benzo[b]fluoranthene	1.95	1.93		ug/L		99	70 - 130	1	20
Benzo[g,h,i]perylene	1.95	1.95		ug/L		100	70 - 130	0	20
Benzo[k]fluoranthene	1.95	1.90		ug/L		98	70 - 130	5	20
beta-BHC	1.95	1.99		ug/L		102	70 - 130	2	20
Bis(2-ethylhexyl) phthalate	1.95	2.16		ug/L		111	70 - 130	2	20
Bromacil	1.95	2.24		ug/L		115	70 - 130	6	20
Butachlor	1.95	2.11		ug/L		109	70 - 130	1	20
Butylbenzylphthalate	1.95	2.22		ug/L		114	70 - 130	4	20
Chlorobenzilate	1.95	2.20		ug/L		113	70 - 130	1	20
Chloroneb	1.95	1.86		ug/L		96	70 - 130	3	20
Chlorothalonil (Draconil, Bravo)	1.95	2.17		ug/L		112	70 - 130	7	20
Chlorpyrifos	1.95	2.15		ug/L		110	70 - 130	4	20
Chrysene	1.95	1.80		ug/L		93	70 - 130	0	20
delta-BHC	1.95	2.00		ug/L		103	70 - 130	2	20
Di(2-ethylhexyl)adipate	1.95	2.28		ug/L		117	70 - 130	3	20
Dibenz(a,h)anthracene	1.95	1.95		ug/L		100	70 - 130	1	20
Diclorvos (DDVP)	1.95	2.08		ug/L		107	70 - 130	7	20
Dieldrin	1.95	1.97		ug/L		101	70 - 130	3	20
Diethylphthalate	1.95	2.17		ug/L		111	70 - 130	5	20
Dimethylphthalate	1.95	2.14		ug/L		110	70 - 130	5	20
Di-n-butyl phthalate	3.89	4.41		ug/L		113	70 - 130	3	20
Di-n-octyl phthalate	1.95	2.18		ug/L		112	70 - 130	1	20
Endosulfan I (Alpha)	1.95	1.90		ug/L		98	70 - 130	1	20
Endosulfan II (Beta)	1.95	1.95		ug/L		100	70 - 130	1	20
Endosulfan sulfate	1.95	2.07		ug/L		107	70 - 130	3	20
Endrin	1.95	2.09		ug/L		108	70 - 130	4	20
Endrin aldehyde	1.95	2.03		ug/L		104	60 - 130	1	20
EPTC	1.95	2.09		ug/L		107	70 - 130	2	20
Fluoranthene	1.95	2.06		ug/L		106	70 - 130	1	20
Fluorene	1.95	1.96		ug/L		101	70 - 130	1	20
gamma-Chlordane	1.95	2.07		ug/L		106	70 - 130	3	20
Heptachlor	1.95	2.10		ug/L		108	70 - 130	5	20
Heptachlor epoxide (isomer B)	1.95	2.03		ug/L		104	70 - 130	0	20
Hexachlorobenzene	1.95	2.02		ug/L		104	70 - 130	1	20
Hexachlorocyclopentadiene	1.95	1.92		ug/L		99	70 - 130	4	20
Indeno[1,2,3-cd]pyrene	1.95	2.04		ug/L		105	70 - 130	1	20
Isophorone	1.95	2.03		ug/L		105	70 - 130	2	20
Lindane	1.95	1.96		ug/L		101	70 - 130	3	20
Malathion	1.95	2.07		ug/L		106	70 - 130	4	20
Methoxychlor	1.95	1.96		ug/L		101	70 - 130	4	20
Metolachlor	1.95	2.03		ug/L		104	70 - 130	0	20
Molinate	1.95	2.10		ug/L		108	70 - 130	4	20
Naphthalene	1.95	1.92		ug/L		98	70 - 130	1	20
Parathion	1.95	2.23		ug/L		115	70 - 130	4	20
Pendimethalin (Penoxaline)	1.95	2.00		ug/L		103	70 - 130	5	20

Eurofins Eaton Analytical Pomona

# QC Sample Results

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

Job ID: 380-177174-1  
SDG: Weekly: Moanalua Wells

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

**Lab Sample ID: LCSD 380-181132/22-A**

**Matrix: Water**

**Analysis Batch: 181462**

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

**Prep Type: Total/NA**

**Prep Batch: 181132**

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec	RPD	RPD
	Added	Result	Qualifier				Limits		Limit
Phenanthrene	1.95	1.92		ug/L		99	70 - 130	0	20
Propachlor	1.95	2.20		ug/L		113	70 - 130	4	20
Pyrene	1.95	2.03		ug/L		104	70 - 130	1	20
Simazine	1.95	2.13		ug/L		109	70 - 130	7	20
Terbacil	1.95	2.28		ug/L		117	70 - 130	8	20
Terbutylazine	1.95	2.23		ug/L		115	70 - 130	5	20
Thiobencarb	1.95	2.18		ug/L		112	70 - 130	5	20
trans-Nonachlor	1.95	1.87		ug/L		96	70 - 130	0	20
Trifluralin	1.95	2.02		ug/L		104	70 - 130	4	20

Surrogate	LCSD	LCSD	Limits
	%Recovery	Qualifier	
2-Nitro-m-xylene	99		70 - 130
Perylene-d12	96		70 - 130
Triphenylphosphate	108		70 - 130

**Lab Sample ID: MRL 380-181132/20-A**

**Matrix: Water**

**Analysis Batch: 181462**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 181132**

Analyte	Spike	MRL	MRL	Unit	D	%Rec	%Rec
	Added	Result	Qualifier				Limits
1-Methylnaphthalene	0.0975	0.124		ug/L		127	50 - 150
2,4'-DDD	0.0975	0.0949	J	ug/L		97	50 - 150
2,4'-DDE	0.0975	0.106		ug/L		109	50 - 150
2,4'-DDT	0.0975	0.100		ug/L		103	50 - 150
2,4-Dinitrotoluene	0.0975	0.105		ug/L		108	50 - 150
2,6-Dinitrotoluene	0.0975	0.121		ug/L		124	50 - 150
2-Methylnaphthalene	0.0975	0.114		ug/L		117	50 - 150
4,4'-DDD	0.0975	0.107		ug/L		110	50 - 150
4,4'-DDE	0.0975	0.0956	J	ug/L		98	50 - 150
4,4'-DDT	0.0975	0.111		ug/L		114	50 - 150
Acenaphthene	0.0975	0.0947	J	ug/L		97	50 - 150
Acenaphthylene	0.0975	0.0942	J	ug/L		97	50 - 150
Acetochlor	0.0975	0.130		ug/L		133	50 - 150
Alachlor	0.0487	0.0572		ug/L		117	50 - 150
alpha-BHC	0.0975	0.116		ug/L		119	50 - 150
alpha-Chlordane	0.0244	<0.028		ug/L		111	50 - 150
Anthracene	0.0195	0.0239		ug/L		123	50 - 150
Atrazine	0.0487	0.0612		ug/L		126	50 - 150
Benz(a)anthracene	0.0487	0.0555		ug/L		114	50 - 150
Benzo[a]pyrene	0.0195	0.0226		ug/L		116	50 - 150
Benzo[b]fluoranthene	0.0195	0.0216		ug/L		111	50 - 150
Benzo[g,h,i]perylene	0.0487	0.0488	J	ug/L		100	50 - 150
Benzo[k]fluoranthene	0.0195	0.0230		ug/L		118	50 - 150
beta-BHC	0.0975	0.124		ug/L		127	50 - 150
Bis(2-ethylhexyl) phthalate	0.585	0.699		ug/L		120	50 - 150
Bromacil	0.0975	0.142		ug/L		146	50 - 150
Butachlor	0.0487	0.0705		ug/L		145	50 - 150
Butylbenzylphthalate	0.487	0.628		ug/L		129	50 - 150

Eurofins Eaton Analytical Pomona

# QC Sample Results

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

Job ID: 380-177174-1  
SDG: Weekly: Moanalua Wells

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

**Lab Sample ID: MRL 380-181132/20-A**

**Matrix: Water**

**Analysis Batch: 181462**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 181132**

Analyte	Spike	MRL	MRL	Unit	D	%Rec	%Rec Limits
	Added	Result	Qualifier				
Chlorobenzilate	0.0975	0.125		ug/L		128	50 - 150
Chloroneb	0.0975	0.117		ug/L		120	50 - 150
Chlorothalonil (Draconil, Bravo)	0.0975	0.0944	J	ug/L		97	50 - 150
Chlorpyrifos	0.0487	0.0583		ug/L		120	50 - 150
Chrysene	0.0195	0.0212		ug/L		109	50 - 150
delta-BHC	0.0975	0.111		ug/L		114	50 - 150
Di(2-ethylhexyl)adipate	0.585	0.764		ug/L		131	50 - 150
Dibenz(a,h)anthracene	0.0487	0.0498		ug/L		102	50 - 150
Diclorvos (DDVP)	0.0487	0.0639		ug/L		131	50 - 150
Dieldrin	0.00975	0.0111		ug/L		114	50 - 150
Diethylphthalate	0.487	0.612		ug/L		126	50 - 150
Dimethylphthalate	0.487	0.592		ug/L		122	50 - 150
Di-n-butyl phthalate	0.487	0.659	J	ug/L		135	49 - 243
Di-n-octyl phthalate	0.0975	0.104		ug/L		107	50 - 150
Endosulfan I (Alpha)	0.0975	0.100		ug/L		103	50 - 150
Endosulfan II (Beta)	0.0975	0.122		ug/L		125	50 - 150
Endosulfan sulfate	0.0975	0.0938	J	ug/L		96	50 - 150
Endrin	0.00975	0.0115		ug/L		118	50 - 150
Endrin aldehyde	0.0975	0.128		ug/L		131	50 - 150
EPTC	0.0975	0.114		ug/L		117	50 - 150
Fluoranthene	0.0975	0.116		ug/L		119	50 - 150
Fluorene	0.0487	0.0587		ug/L		120	50 - 150
gamma-Chlordane	0.0244	0.0281	J	ug/L		115	50 - 150
Heptachlor	0.00975	0.0102		ug/L		104	50 - 150
Heptachlor epoxide (isomer B)	0.00975	0.0115		ug/L		118	50 - 150
Hexachlorobenzene	0.0487	0.0510		ug/L		105	50 - 150
Hexachlorocyclopentadiene	0.0487	0.0454	J	ug/L		93	50 - 150
Indeno[1,2,3-cd]pyrene	0.0487	0.0534		ug/L		109	50 - 150
Isophorone	0.0975	0.126		ug/L		130	50 - 150
Lindane	0.00975	0.0104		ug/L		107	50 - 150
Malathion	0.0975	0.120		ug/L		123	50 - 150
Methoxychlor	0.0487	0.0576		ug/L		118	50 - 150
Metolachlor	0.0487	0.0664		ug/L		136	50 - 150
Molinate	0.0975	0.119		ug/L		122	50 - 150
Naphthalene	0.0975	0.110		ug/L		113	50 - 150
Parathion	0.0975	0.102		ug/L		105	50 - 150
Pendimethalin (Penoxaline)	0.0975	0.0958	J	ug/L		98	50 - 150
Phenanthrene	0.0390	0.0432		ug/L		111	50 - 150
Propachlor	0.0487	0.0650		ug/L		133	50 - 150
Pyrene	0.0487	0.0565		ug/L		116	50 - 150
Simazine	0.0487	0.0527		ug/L		108	50 - 150
Terbacil	0.0975	0.139		ug/L		143	50 - 150
Terbutylazine	0.0975	0.122		ug/L		125	50 - 150
Thiobencarb	0.0975	0.120		ug/L		123	50 - 150
trans-Nonachlor	0.0244	0.0260	J	ug/L		107	50 - 150
Trifluralin	0.0975	0.107		ug/L		110	50 - 150

# QC Sample Results

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

Job ID: 380-177174-1  
SDG: Weekly: Moanalua Wells

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

**Lab Sample ID: MRL 380-181132/20-A**  
**Matrix: Water**  
**Analysis Batch: 181462**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 181132**

Surrogate	MRL %Recovery	MRL Qualifier	Limits
2-Nitro-m-xylene	99		70 - 130
Perylene-d12	86		70 - 130
Triphenylphosphate	102		70 - 130

**Lab Sample ID: 380-177804-A-3-B MS**  
**Matrix: Water**  
**Analysis Batch: 181462**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**  
**Prep Batch: 181132**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier	Added	Result	Qualifier				
1-Methylnaphthalene	<0.098		1.94	1.76		ug/L		90	70 - 130
2,4'-DDD	<0.098		1.94	2.09		ug/L		107	70 - 130
2,4'-DDE	<0.098		1.94	2.01		ug/L		103	70 - 130
2,4'-DDT	<0.098		1.94	2.04		ug/L		105	70 - 130
2,4-Dinitrotoluene	<0.098		1.94	2.27		ug/L		117	70 - 130
2,6-Dinitrotoluene	<0.098		1.94	2.20		ug/L		113	70 - 130
2-Methylnaphthalene	<0.098		1.94	1.81		ug/L		93	70 - 130
4,4'-DDD	<0.098		1.94	2.17		ug/L		112	70 - 130
4,4'-DDE	<0.098		1.94	1.97		ug/L		102	70 - 130
4,4'-DDT	<0.098		1.94	1.83		ug/L		94	70 - 130
Acenaphthene	<0.098		1.94	1.89		ug/L		97	70 - 130
Acenaphthylene	<0.098		1.94	1.99		ug/L		103	70 - 130
Acetochlor	<0.098		1.94	2.14		ug/L		110	70 - 130
Alachlor	<0.049		1.94	2.21		ug/L		113	70 - 130
alpha-BHC	<0.098		1.94	1.97		ug/L		101	70 - 130
alpha-Chlordane	<0.049		1.94	2.03		ug/L		104	70 - 130
Anthracene	<0.020		1.94	1.97		ug/L		101	70 - 130
Atrazine	<0.049		1.94	1.93		ug/L		99	70 - 130
Benz(a)anthracene	<0.049		1.94	1.90		ug/L		98	70 - 130
Benzo[a]pyrene	<0.020		1.94	2.13		ug/L		110	70 - 130
Benzo[b]fluoranthene	<0.020		1.94	2.08		ug/L		107	70 - 130
Benzo[g,h,i]perylene	<0.049		1.94	1.91		ug/L		98	70 - 130
Benzo[k]fluoranthene	<0.020		1.94	1.98		ug/L		102	70 - 130
beta-BHC	<0.098		1.94	2.06		ug/L		106	70 - 130
Bis(2-ethylhexyl) phthalate	<0.59		1.94	1.79		ug/L		92	70 - 130
Bromacil	<0.098		1.94	2.27		ug/L		117	70 - 130
Butachlor	<0.049		1.94	2.20		ug/L		113	70 - 130
Butylbenzylphthalate	<0.49		1.94	2.33		ug/L		120	70 - 130
Chlorobenzilate	<0.098		1.94	2.36		ug/L		121	70 - 130
Chloroneb	<0.098		1.94	1.84		ug/L		95	70 - 130
Chlorothalonil (Draconil, Bravo)	<0.098		1.94	2.27		ug/L		117	70 - 130
Chlorpyrifos	<0.049		1.94	2.18		ug/L		112	70 - 130
Chrysene	<0.020		1.94	1.87		ug/L		96	70 - 130
delta-BHC	<0.098		1.94	1.94		ug/L		100	70 - 130
Di(2-ethylhexyl)adipate	<0.59		1.94	1.92		ug/L		99	70 - 130
Dibenz(a,h)anthracene	<0.049		1.94	1.91		ug/L		98	70 - 130
Diclorvos (DDVP)	<0.049		1.94	2.02		ug/L		104	70 - 130
Dieldrin	<0.0098		1.94	2.06		ug/L		106	70 - 130
Diethylphthalate	<0.49		1.94	2.23		ug/L		112	70 - 130

# QC Sample Results

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

Job ID: 380-177174-1  
SDG: Weekly: Moanalua Wells

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

**Lab Sample ID: 380-177804-A-3-B MS**

**Client Sample ID: Matrix Spike**

**Matrix: Water**

**Prep Type: Total/NA**

**Analysis Batch: 181462**

**Prep Batch: 181132**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec
	Result	Qualifier	Added	Result	Qualifier				
Dimethylphthalate	<0.49		1.94	2.15		ug/L		110	70 - 130
Di-n-butyl phthalate	<0.98		3.89	4.70		ug/L		112	70 - 130
Di-n-octyl phthalate	<0.098		1.94	1.65		ug/L		85	70 - 130
Endosulfan I (Alpha)	<0.098		1.94	2.04		ug/L		105	70 - 130
Endosulfan II (Beta)	<0.098		1.94	1.93		ug/L		99	70 - 130
Endosulfan sulfate	<0.098		1.94	2.23		ug/L		114	70 - 130
Endrin	<0.0098		1.94	1.95		ug/L		100	70 - 130
Endrin aldehyde	<0.098	F1	1.94	0.768	F1	ug/L		39	60 - 130
EPTC	<0.098		1.94	2.02		ug/L		104	70 - 130
Fluoranthene	<0.098		1.94	2.16		ug/L		111	70 - 130
Fluorene	<0.049		1.94	1.97		ug/L		101	70 - 130
gamma-Chlordane	<0.049		1.94	2.10		ug/L		108	70 - 130
Heptachlor	<0.0098		1.94	2.14		ug/L		110	70 - 130
Heptachlor epoxide (isomer B)	<0.0098		1.94	2.03		ug/L		105	70 - 130
Hexachlorobenzene	<0.049		1.94	2.01		ug/L		104	70 - 130
Hexachlorocyclopentadiene	<0.049		1.94	1.95		ug/L		100	70 - 130
Indeno[1,2,3-cd]pyrene	<0.049		1.94	2.06		ug/L		106	70 - 130
Isophorone	<0.098		1.94	1.95		ug/L		100	70 - 130
Lindane	<0.0098		1.94	1.94		ug/L		100	70 - 130
Malathion	<0.098		1.94	2.14		ug/L		110	70 - 130
Methoxychlor	<0.049		1.94	2.19		ug/L		113	70 - 130
Metolachlor	<0.049		1.94	2.05		ug/L		105	70 - 130
Molinate	<0.098		1.94	2.09		ug/L		107	70 - 130
Naphthalene	<0.098		1.94	1.86		ug/L		95	70 - 130
Parathion	<0.098	F1	1.94	2.37		ug/L		122	70 - 130
Pendimethalin (Penoxaline)	<0.098	F1	1.94	2.46		ug/L		126	70 - 130
Phenanthrene	<0.039		1.94	1.93		ug/L		99	70 - 130
Propachlor	<0.049		1.94	2.22		ug/L		114	70 - 130
Pyrene	<0.049		1.94	2.12		ug/L		109	70 - 130
Simazine	<0.049		1.94	1.80		ug/L		93	70 - 130
Terbacil	<0.098		1.94	2.17		ug/L		111	70 - 130
Terbutylazine	<0.098		1.94	2.08		ug/L		107	70 - 130
Thiobencarb	<0.098		1.94	2.23		ug/L		115	70 - 130
trans-Nonachlor	<0.049		1.94	1.86		ug/L		96	70 - 130
Trifluralin	<0.098		1.94	2.34		ug/L		120	70 - 130

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
2-Nitro-m-xylene	96		70 - 130
Perylene-d12	101		70 - 130
Triphenylphosphate	114		70 - 130

**Lab Sample ID: 380-177804-A-3-C MSD**

**Client Sample ID: Matrix Spike Duplicate**

**Matrix: Water**

**Prep Type: Total/NA**

**Analysis Batch: 181462**

**Prep Batch: 181132**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	
	Result	Qualifier	Added	Result	Qualifier					Limits	RPD
1-Methylnaphthalene	<0.098		1.98	1.86		ug/L		93	70 - 130	5	20
2,4'-DDD	<0.098		1.98	2.19		ug/L		111	70 - 130	5	20

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# QC Sample Results

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

Job ID: 380-177174-1  
SDG: Weekly: Moanalua Wells

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

**Lab Sample ID: 380-177804-A-3-C MSD**

**Client Sample ID: Matrix Spike Duplicate**

**Matrix: Water**

**Prep Type: Total/NA**

**Analysis Batch: 181462**

**Prep Batch: 181132**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		Limit
2,4'-DDE	<0.098		1.98	2.08		ug/L		105	70 - 130	3	20
2,4'-DDT	<0.098		1.98	2.11		ug/L		107	70 - 130	4	20
2,4-Dinitrotoluene	<0.098		1.98	2.43		ug/L		123	70 - 130	7	20
2,6-Dinitrotoluene	<0.098		1.98	2.38		ug/L		120	70 - 130	8	20
2-Methylnaphthalene	<0.098		1.98	1.89		ug/L		95	70 - 130	4	20
4,4'-DDD	<0.098		1.98	2.27		ug/L		115	70 - 130	5	20
4,4'-DDE	<0.098		1.98	2.06		ug/L		104	70 - 130	4	20
4,4'-DDT	<0.098		1.98	1.91		ug/L		97	70 - 130	4	20
Acenaphthene	<0.098		1.98	1.96		ug/L		99	70 - 130	4	20
Acenaphthylene	<0.098		1.98	2.12		ug/L		107	70 - 130	6	20
Acetochlor	<0.098		1.98	2.28		ug/L		115	70 - 130	6	20
Alachlor	<0.049		1.98	2.33		ug/L		118	70 - 130	5	20
alpha-BHC	<0.098		1.98	2.00		ug/L		101	70 - 130	1	20
alpha-Chlordane	<0.049		1.98	2.14		ug/L		108	70 - 130	5	20
Anthracene	<0.020		1.98	2.06		ug/L		104	70 - 130	5	20
Atrazine	<0.049		1.98	1.98		ug/L		100	70 - 130	3	20
Benz(a)anthracene	<0.049		1.98	2.01		ug/L		102	70 - 130	6	20
Benzo[a]pyrene	<0.020		1.98	2.21		ug/L		112	70 - 130	4	20
Benzo[b]fluoranthene	<0.020		1.98	2.17		ug/L		110	70 - 130	4	20
Benzo[g,h,i]perylene	<0.049		1.98	1.92		ug/L		97	70 - 130	1	20
Benzo[k]fluoranthene	<0.020		1.98	2.01		ug/L		102	70 - 130	2	20
beta-BHC	<0.098		1.98	2.08		ug/L		105	70 - 130	1	20
Bis(2-ethylhexyl) phthalate	<0.59		1.98	1.89		ug/L		96	70 - 130	6	20
Bromacil	<0.098		1.98	2.43		ug/L		123	70 - 130	7	20
Butachlor	<0.049		1.98	2.34		ug/L		118	70 - 130	6	20
Butylbenzylphthalate	<0.49		1.98	2.46		ug/L		124	70 - 130	5	20
Chlorobenzilate	<0.098		1.98	2.47		ug/L		125	70 - 130	5	20
Chloroneb	<0.098		1.98	1.91		ug/L		97	70 - 130	4	20
Chlorothalonil (Draconil, Bravo)	<0.098		1.98	2.36		ug/L		120	70 - 130	4	20
Chlorpyrifos	<0.049		1.98	2.25		ug/L		114	70 - 130	3	20
Chrysene	<0.020		1.98	1.91		ug/L		97	70 - 130	2	20
delta-BHC	<0.098		1.98	1.96		ug/L		99	70 - 130	1	20
Di(2-ethylhexyl)adipate	<0.59		1.98	2.02		ug/L		102	70 - 130	5	20
Dibenz(a,h)anthracene	<0.049		1.98	2.01		ug/L		102	70 - 130	5	20
Diclorvos (DDVP)	<0.049		1.98	2.19		ug/L		111	70 - 130	8	20
Dieldrin	<0.0098		1.98	2.11		ug/L		107	70 - 130	2	20
Diethylphthalate	<0.49		1.98	2.31		ug/L		115	70 - 130	3	20
Dimethylphthalate	<0.49		1.98	2.24		ug/L		114	70 - 130	4	20
Di-n-butyl phthalate	<0.98		3.95	4.99		ug/L		118	70 - 130	6	20
Di-n-octyl phthalate	<0.098		1.98	1.72		ug/L		87	70 - 130	4	20
Endosulfan I (Alpha)	<0.098		1.98	2.05		ug/L		104	70 - 130	1	20
Endosulfan II (Beta)	<0.098		1.98	2.09		ug/L		106	70 - 130	8	20
Endosulfan sulfate	<0.098		1.98	2.29		ug/L		116	70 - 130	3	20
Endrin	<0.0098		1.98	2.06		ug/L		104	70 - 130	6	20
Endrin aldehyde	<0.098	F1	1.98	0.796	F1	ug/L		40	60 - 130	4	20
EPTC	<0.098		1.98	2.14		ug/L		108	70 - 130	6	20
Fluoranthene	<0.098		1.98	2.26		ug/L		114	70 - 130	4	20
Fluorene	<0.049		1.98	2.03		ug/L		103	70 - 130	3	20
gamma-Chlordane	<0.049		1.98	2.20		ug/L		112	70 - 130	5	20

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# QC Sample Results

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

Job ID: 380-177174-1  
SDG: Weekly: Moanalua Wells

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

Lab Sample ID: 380-177804-A-3-C MSD

Client Sample ID: Matrix Spike Duplicate

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 181462

Prep Batch: 181132

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		
Heptachlor	<0.0098		1.98	2.24		ug/L		113	70 - 130	4	20
Heptachlor epoxide (isomer B)	<0.0098		1.98	2.14		ug/L		108	70 - 130	5	20
Hexachlorobenzene	<0.049		1.98	2.06		ug/L		104	70 - 130	2	20
Hexachlorocyclopentadiene	<0.049		1.98	2.09		ug/L		106	70 - 130	7	20
Indeno[1,2,3-cd]pyrene	<0.049		1.98	2.15		ug/L		109	70 - 130	4	20
Isophorone	<0.098		1.98	2.14		ug/L		109	70 - 130	9	20
Lindane	<0.0098		1.98	1.99		ug/L		101	70 - 130	3	20
Malathion	<0.098		1.98	2.28		ug/L		115	70 - 130	6	20
Methoxychlor	<0.049		1.98	2.33		ug/L		118	70 - 130	6	20
Metolachlor	<0.049		1.98	2.18		ug/L		110	70 - 130	6	20
Molinate	<0.098		1.98	2.20		ug/L		111	70 - 130	5	20
Naphthalene	<0.098		1.98	1.94		ug/L		98	70 - 130	5	20
Parathion	<0.098	F1	1.98	2.62	F1	ug/L		133	70 - 130	10	20
Pendimethalin (Penoxaline)	<0.098	F1	1.98	2.68	F1	ug/L		136	70 - 130	9	20
Phenanthrene	<0.039		1.98	2.03		ug/L		103	70 - 130	5	20
Propachlor	<0.049		1.98	2.32		ug/L		118	70 - 130	5	20
Pyrene	<0.049		1.98	2.21		ug/L		112	70 - 130	4	20
Simazine	<0.049		1.98	1.88		ug/L		95	70 - 130	4	20
Terbacil	<0.098		1.98	2.37		ug/L		120	70 - 130	9	20
Terbutylazine	<0.098		1.98	2.14		ug/L		108	70 - 130	3	20
Thiobencarb	<0.098		1.98	2.35		ug/L		119	70 - 130	5	20
trans-Nonachlor	<0.049		1.98	1.98		ug/L		100	70 - 130	6	20
Trifluralin	<0.098		1.98	2.53		ug/L		128	70 - 130	8	20

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
2-Nitro-m-xylene	98		70 - 130
Perylene-d12	101		70 - 130
Triphenylphosphate	118		70 - 130

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

Lab Sample ID: MB 570-642969/1-A

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 646232

Prep Batch: 642969

Tentatively Identified Compound	MB	MB	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
	Est. Result	Qualifier							
Tentatively Identified Compound	None		ug/L			N/A	10/20/25 06:11	10/26/25 04:12	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2,4,6-Tribromophenol (Surr)	89		33 - 139	10/20/25 06:11	10/26/25 04:12	1
2-Fluorobiphenyl (Surr)	87		33 - 126	10/20/25 06:11	10/26/25 04:12	1
2-Fluorophenol (Surr)	60		12 - 120	10/20/25 06:11	10/26/25 04:12	1
Nitrobenzene-d5 (Surr)	93		36 - 120	10/20/25 06:11	10/26/25 04:12	1
Phenol-d6 (Surr)	34		10 - 120	10/20/25 06:11	10/26/25 04:12	1
p-Terphenyl-d14 (Surr)	83		47 - 131	10/20/25 06:11	10/26/25 04:12	1

Eurofins Eaton Analytical Pomona

# QC Sample Results

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

Job ID: 380-177174-1  
SDG: Weekly: Moanalua Wells

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

**Lab Sample ID: MB 570-642969/1-A**  
**Matrix: Water**  
**Analysis Batch: 646236**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 642969**

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
1-Methylnaphthalene	<0.20		0.20	ug/L		10/20/25 06:11	10/26/25 01:40	1
2-Methylnaphthalene	<0.20		0.20	ug/L		10/20/25 06:11	10/26/25 01:40	1
Acenaphthene	<0.20		0.20	ug/L		10/20/25 06:11	10/26/25 01:40	1
Acenaphthylene	<0.20		0.20	ug/L		10/20/25 06:11	10/26/25 01:40	1
Anthracene	<0.20		0.20	ug/L		10/20/25 06:11	10/26/25 01:40	1
Benzo[a]anthracene	<0.20		0.20	ug/L		10/20/25 06:11	10/26/25 01:40	1
Benzo[a]pyrene	<0.20		0.20	ug/L		10/20/25 06:11	10/26/25 01:40	1
Benzo[b]fluoranthene	<0.20		0.20	ug/L		10/20/25 06:11	10/26/25 01:40	1
Benzo[g,h,i]perylene	<0.20		0.20	ug/L		10/20/25 06:11	10/26/25 01:40	1
Benzo[k]fluoranthene	<0.20		0.20	ug/L		10/20/25 06:11	10/26/25 01:40	1
Chrysene	<0.20		0.20	ug/L		10/20/25 06:11	10/26/25 01:40	1
Dibenz(a,h)anthracene	<0.20		0.20	ug/L		10/20/25 06:11	10/26/25 01:40	1
Fluoranthene	<0.20		0.20	ug/L		10/20/25 06:11	10/26/25 01:40	1
Fluorene	<0.20		0.20	ug/L		10/20/25 06:11	10/26/25 01:40	1
Indeno[1,2,3-cd]pyrene	<0.20		0.20	ug/L		10/20/25 06:11	10/26/25 01:40	1
Naphthalene	<0.20		0.20	ug/L		10/20/25 06:11	10/26/25 01:40	1
Phenanthrene	<0.20		0.20	ug/L		10/20/25 06:11	10/26/25 01:40	1
Pyrene	<0.20		0.20	ug/L		10/20/25 06:11	10/26/25 01:40	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2,4,6-Tribromophenol (Surr)	76		28 - 127	10/20/25 06:11	10/26/25 01:40	1
2-Fluorobiphenyl (Surr)	68		31 - 120	10/20/25 06:11	10/26/25 01:40	1
2-Fluorophenol (Surr)	50		17 - 120	10/20/25 06:11	10/26/25 01:40	1
Nitrobenzene-d5 (Surr)	78		27 - 120	10/20/25 06:11	10/26/25 01:40	1
Phenol-d6 (Surr)	33		10 - 120	10/20/25 06:11	10/26/25 01:40	1
p-Terphenyl-d14 (Surr)	73		45 - 120	10/20/25 06:11	10/26/25 01:40	1

**Lab Sample ID: LCS 570-642969/2-A**  
**Matrix: Water**  
**Analysis Batch: 646236**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 642969**

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
1-Methylnaphthalene	20.0	15.1		ug/L		76	47 - 120
2-Methylnaphthalene	20.0	14.9		ug/L		75	43 - 120
Acenaphthene	20.0	14.3		ug/L		71	60 - 132
Acenaphthylene	20.0	13.7		ug/L		68	54 - 126
Anthracene	20.0	13.1		ug/L		66	43 - 120
Benzo[a]anthracene	20.0	14.8		ug/L		74	42 - 133
Benzo[a]pyrene	20.0	11.1		ug/L		56	32 - 148
Benzo[b]fluoranthene	20.0	14.0		ug/L		70	42 - 140
Benzo[g,h,i]perylene	20.0	14.8		ug/L		74	1 - 195
Benzo[k]fluoranthene	20.0	13.4		ug/L		67	25 - 146
Chrysene	20.0	15.2		ug/L		76	44 - 140
Dibenz(a,h)anthracene	20.0	17.1		ug/L		85	1 - 200
Fluoranthene	20.0	15.5		ug/L		77	43 - 121
Fluorene	20.0	14.8		ug/L		74	70 - 120
Indeno[1,2,3-cd]pyrene	20.0	15.4		ug/L		77	1 - 151
Naphthalene	20.0	14.9		ug/L		74	36 - 120

Eurofins Eaton Analytical Pomona

# QC Sample Results

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

Job ID: 380-177174-1  
SDG: Weekly: Moanalua Wells

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

Lab Sample ID: LCS 570-642969/2-A

Matrix: Water

Analysis Batch: 646236

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 642969

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Phenanthrene	20.0	14.6		ug/L		73	65 - 120
Pyrene	20.0	16.2		ug/L		81	70 - 120

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	78		28 - 127
2-Fluorobiphenyl (Surr)	71		31 - 120
2-Fluorophenol (Surr)	53		17 - 120
Nitrobenzene-d5 (Surr)	77		27 - 120
Phenol-d6 (Surr)	37		10 - 120
p-Terphenyl-d14 (Surr)	83		45 - 120

Lab Sample ID: LCSD 570-642969/3-A

Matrix: Water

Analysis Batch: 646236

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 642969

Analyte	Spike Added	LCSD	LCSD	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
		Result	Qualifier						
1-Methylnaphthalene	20.0	13.6		ug/L		68	47 - 120	11	20
2-Methylnaphthalene	20.0	13.4		ug/L		67	43 - 120	10	20
Acenaphthene	20.0	15.0		ug/L		75	60 - 132	5	29
Acenaphthylene	20.0	15.2		ug/L		76	54 - 126	11	45
Anthracene	20.0	14.8		ug/L		74	43 - 120	12	40
Benzo[a]anthracene	20.0	15.5		ug/L		78	42 - 133	5	32
Benzo[a]pyrene	20.0	15.0		ug/L		75	32 - 148	30	43
Benzo[b]fluoranthene	20.0	15.5		ug/L		78	42 - 140	11	43
Benzo[g,h,i]perylene	20.0	13.9		ug/L		69	1 - 195	6	61
Benzo[k]fluoranthene	20.0	15.3		ug/L		76	25 - 146	13	38
Chrysene	20.0	15.7		ug/L		78	44 - 140	3	53
Dibenz(a,h)anthracene	20.0	14.4		ug/L		72	1 - 200	17	75
Fluoranthene	20.0	16.2		ug/L		81	43 - 121	4	40
Fluorene	20.0	15.5		ug/L		78	70 - 120	5	23
Indeno[1,2,3-cd]pyrene	20.0	14.2		ug/L		71	1 - 151	8	60
Naphthalene	20.0	13.0		ug/L		65	36 - 120	13	39
Phenanthrene	20.0	15.0		ug/L		75	65 - 120	2	24
Pyrene	20.0	16.6		ug/L		83	70 - 120	3	30

Surrogate	LCSD	LCSD	Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	81		28 - 127
2-Fluorobiphenyl (Surr)	75		31 - 120
2-Fluorophenol (Surr)	58		17 - 120
Nitrobenzene-d5 (Surr)	70		27 - 120
Phenol-d6 (Surr)	40		10 - 120
p-Terphenyl-d14 (Surr)	83		45 - 120

# QC Sample Results

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

Job ID: 380-177174-1  
SDG: Weekly: Moanalua Wells

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

**Lab Sample ID: 380-177173-A-1-A MS**

**Matrix: Water**

**Analysis Batch: 646236**

**Client Sample ID: Matrix Spike**

**Prep Type: Total/NA**

**Prep Batch: 642969**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier					
1-Methylnaphthalene	<0.19	F2	19.5	8.19		ug/L		42	36 - 120	
2-Methylnaphthalene	<0.19	F2	19.5	8.02		ug/L		41	32 - 124	
Acenaphthene	<0.19	F1 F2	19.5	8.72	F1	ug/L		45	47 - 145	
Acenaphthylene	<0.19		19.5	9.00		ug/L		46	33 - 145	
Anthracene	<0.19		19.5	8.84		ug/L		45	27 - 133	
Benzo[a]anthracene	<0.19		19.5	9.14		ug/L		47	33 - 143	
Benzo[a]pyrene	<0.19		19.5	8.73		ug/L		45	17 - 163	
Benzo[b]fluoranthene	<0.19		19.5	8.91		ug/L		46	24 - 159	
Benzo[g,h,i]perylene	<0.19		19.5	7.66		ug/L		39	1 - 219	
Benzo[k]fluoranthene	<0.19		19.5	8.88		ug/L		46	11 - 162	
Chrysene	<0.19		19.5	9.23		ug/L		47	17 - 168	
Dibenz(a,h)anthracene	<0.19		19.5	7.89		ug/L		40	1 - 227	
Fluoranthene	<0.19		19.5	9.71		ug/L		50	26 - 137	
Fluorene	<0.19	F1 F2	19.5	9.31	F1	ug/L		48	59 - 121	
Indeno[1,2,3-cd]pyrene	<0.19		19.5	7.75		ug/L		40	1 - 171	
Naphthalene	<0.19		19.5	7.81		ug/L		40	21 - 133	
Phenanthrene	<0.19	F1 F2	19.5	9.00	F1	ug/L		46	54 - 120	
Pyrene	<0.19	F1	19.5	9.98	F1	ug/L		51	52 - 120	

Surrogate	MS %Recovery	MS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	48		28 - 127
2-Fluorobiphenyl (Surr)	44		31 - 120
2-Fluorophenol (Surr)	29		17 - 120
Nitrobenzene-d5 (Surr)	44		27 - 120
Phenol-d6 (Surr)	20		10 - 120
p-Terphenyl-d14 (Surr)	50		45 - 120

**Lab Sample ID: 380-177173-A-1-B MSD**

**Matrix: Water**

**Analysis Batch: 646236**

**Client Sample ID: Matrix Spike Duplicate**

**Prep Type: Total/NA**

**Prep Batch: 642969**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier							
1-Methylnaphthalene	<0.19	F2	19.4	15.9	F2	ug/L		82	36 - 120	64	30	
2-Methylnaphthalene	<0.19	F2	19.4	15.8	F2	ug/L		81	32 - 124	65	30	
Acenaphthene	<0.19	F1 F2	19.4	14.9	F2	ug/L		77	47 - 145	52	48	
Acenaphthylene	<0.19		19.4	14.7		ug/L		76	33 - 145	48	74	
Anthracene	<0.19		19.4	14.6		ug/L		75	27 - 133	49	66	
Benzo[a]anthracene	<0.19		19.4	15.5		ug/L		80	33 - 143	51	53	
Benzo[a]pyrene	<0.19		19.4	14.3		ug/L		74	17 - 163	49	72	
Benzo[b]fluoranthene	<0.19		19.4	15.1		ug/L		78	24 - 159	52	71	
Benzo[g,h,i]perylene	<0.19		19.4	13.4		ug/L		69	1 - 219	54	97	
Benzo[k]fluoranthene	<0.19		19.4	14.7		ug/L		76	11 - 162	49	63	
Chrysene	<0.19		19.4	15.6		ug/L		80	17 - 168	51	87	
Dibenz(a,h)anthracene	<0.19		19.4	13.9		ug/L		72	1 - 227	55	126	
Fluoranthene	<0.19		19.4	16.4		ug/L		84	26 - 137	51	66	
Fluorene	<0.19	F1 F2	19.4	15.1	F2	ug/L		78	59 - 121	47	38	
Indeno[1,2,3-cd]pyrene	<0.19		19.4	13.7		ug/L		71	1 - 171	56	99	
Naphthalene	<0.19		19.4	15.3		ug/L		79	21 - 133	65	65	

Eurofins Eaton Analytical Pomona

# QC Sample Results

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

Job ID: 380-177174-1  
SDG: Weekly: Moanalua Wells

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

**Lab Sample ID: 380-177173-A-1-B MSD**

**Matrix: Water**

**Analysis Batch: 646236**

**Client Sample ID: Matrix Spike Duplicate**

**Prep Type: Total/NA**

**Prep Batch: 642969**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Phenanthrene	<0.19	F1 F2	19.4	15.1	F2	ug/L		78	54 - 120	50	39
Pyrene	<0.19	F1	19.4	16.4		ug/L		85	52 - 120	49	49

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	84		28 - 127
2-Fluorobiphenyl (Surr)	75		31 - 120
2-Fluorophenol (Surr)	53		17 - 120
Nitrobenzene-d5 (Surr)	82		27 - 120
Phenol-d6 (Surr)	36		10 - 120
p-Terphenyl-d14 (Surr)	84		45 - 120

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

**Lab Sample ID: MB 570-646066/6**

**Matrix: Water**

**Analysis Batch: 646066**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
GRO (C6-C10)	<10		10	ug/L			10/25/25 12:55	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	79		38 - 134		10/25/25 12:55	1

**Lab Sample ID: LCS 570-646066/4**

**Matrix: Water**

**Analysis Batch: 646066**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec	RPD	Limit
		Result	Qualifier				Limits		
Gasoline Range Organics (C4-C13)	400	361		ug/L		90	78 - 120		

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	78		38 - 134

**Lab Sample ID: LCSD 570-646066/5**

**Matrix: Water**

**Analysis Batch: 646066**

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

**Prep Type: Total/NA**

Analyte	Spike Added	LCSD	LCSD	Unit	D	%Rec	%Rec	RPD	Limit
		Result	Qualifier				Limits		
Gasoline Range Organics (C4-C13)	400	404	*1	ug/L		101	78 - 120	11	10

Surrogate	LCSD	LCSD	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	81		38 - 134

# QC Sample Results

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

Job ID: 380-177174-1  
SDG: Weekly: Moanalua Wells

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

**Lab Sample ID: MRL 570-646066/3**  
**Matrix: Water**  
**Analysis Batch: 646066**

**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	<7.9		ug/L		61	50 - 150
<b>Surrogate</b>		<b>MRL %Recovery</b>	<b>MRL Qualifier</b>				<b>Limits</b>
4-Bromofluorobenzene (Surr)		80					38 - 134

**Lab Sample ID: 380-178070-B-1 MS**  
**Matrix: Water**  
**Analysis Batch: 646066**

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (C4-C13)	<10	*1	400	359		ug/L		90	68 - 122
<b>Surrogate</b>		<b>MS %Recovery</b>		<b>MS Qualifier</b>					<b>Limits</b>
4-Bromofluorobenzene (Surr)		81							38 - 134

**Lab Sample ID: 380-178070-B-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 646066**

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (C4-C13)	<10	*1	400	394		ug/L		99	68 - 122	9	18
<b>Surrogate</b>		<b>MSD %Recovery</b>		<b>MSD Qualifier</b>					<b>Limits</b>		
4-Bromofluorobenzene (Surr)		83							38 - 134		

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

**Lab Sample ID: MB 570-642248/1-A**  
**Matrix: Water**  
**Analysis Batch: 646397**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 642248**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	<25		25	ug/L		10/17/25 15:31	10/26/25 17:58	1
Motor Oil Range Organics [C24-C36]	<25		25	ug/L		10/17/25 15:31	10/26/25 17:58	1
C8-C18	<25		25	ug/L		10/17/25 15:31	10/26/25 17:58	1
<b>Surrogate</b>		<b>MB %Recovery</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
n-Octacosane (Surr)		111				10/17/25 15:31	10/26/25 17:58	1

**Lab Sample ID: LCS 570-642248/2-A**  
**Matrix: Water**  
**Analysis Batch: 646397**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 642248**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
C10-C28	1600	1890		ug/L		118	56 - 127

Eurofins Eaton Analytical Pomona

# QC Sample Results

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

Job ID: 380-177174-1  
SDG: Weekly: Moanalua Wells

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

**Lab Sample ID: LCS 570-642248/2-A**  
**Matrix: Water**  
**Analysis Batch: 646397**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 642248**

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
<i>n-Octacosane (Surr)</i>	120		60 - 130

**Lab Sample ID: LCSD 570-642248/3-A**  
**Matrix: Water**  
**Analysis Batch: 646397**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 642248**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
C10-C28	1600	1660		ug/L		104	56 - 127	13	23	

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
<i>n-Octacosane (Surr)</i>	106		60 - 130

**Lab Sample ID: MRL 570-642248/4-A**  
**Matrix: Water**  
**Analysis Batch: 646397**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 642248**

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
C10-C28	0.0200	0.0319	^3+	mg/L		160	50 - 150			

	MRL	MRL	
Surrogate	%Recovery	Qualifier	Limits
<i>n-Octacosane (Surr)</i>	135		60 - 130

**Lab Sample ID: 380-177173-C-1-A MS**  
**Matrix: Water**  
**Analysis Batch: 646397**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**  
**Prep Batch: 642248**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
									Limits	RPD		
C10-C28	<26	^3+	1670	1960		ug/L		118	70 - 130			

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
<i>n-Octacosane (Surr)</i>	120		60 - 130

**Lab Sample ID: 380-177173-C-1-B MSD**  
**Matrix: Water**  
**Analysis Batch: 646397**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 642248**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
									Limits	RPD		
C10-C28	<26	^3+	1640	2040		ug/L		124	70 - 130	4	20	

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

# QC Association Summary

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

Job ID: 380-177174-1  
SDG: Weekly: Moanalua Wells

## GC/MS Semi VOA

### Prep Batch: 181132

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-177174-1	MOANALUA WELLS (331-223-TP202)	Total/NA	Drinking Water	525.2	
MB 380-181132/19-A	Method Blank	Total/NA	Water	525.2	
LCS 380-181132/21-A	Lab Control Sample	Total/NA	Water	525.2	
LCSD 380-181132/22-A	Lab Control Sample Dup	Total/NA	Water	525.2	
MRL 380-181132/20-A	Lab Control Sample	Total/NA	Water	525.2	
380-177804-A-3-B MS	Matrix Spike	Total/NA	Water	525.2	
380-177804-A-3-C MSD	Matrix Spike Duplicate	Total/NA	Water	525.2	

### Analysis Batch: 181462

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-177174-1	MOANALUA WELLS (331-223-TP202)	Total/NA	Drinking Water	525.2	181132
MB 380-181132/19-A	Method Blank	Total/NA	Water	525.2	181132
LCS 380-181132/21-A	Lab Control Sample	Total/NA	Water	525.2	181132
LCSD 380-181132/22-A	Lab Control Sample Dup	Total/NA	Water	525.2	181132
MRL 380-181132/20-A	Lab Control Sample	Total/NA	Water	525.2	181132
380-177804-A-3-B MS	Matrix Spike	Total/NA	Water	525.2	181132
380-177804-A-3-C MSD	Matrix Spike Duplicate	Total/NA	Water	525.2	181132

### Prep Batch: 642969

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-177174-1	MOANALUA WELLS (331-223-TP202)	Total/NA	Drinking Water	625.1	
MB 570-642969/1-A	Method Blank	Total/NA	Water	625.1	
LCS 570-642969/2-A	Lab Control Sample	Total/NA	Water	625.1	
LCSD 570-642969/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	
380-177173-A-1-A MS	Matrix Spike	Total/NA	Water	625.1	
380-177173-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	625.1	

### Analysis Batch: 646232

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-177174-1	MOANALUA WELLS (331-223-TP202)	Total/NA	Drinking Water	625.1	642969
MB 570-642969/1-A	Method Blank	Total/NA	Water	625.1	642969

### Analysis Batch: 646236

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-177174-1	MOANALUA WELLS (331-223-TP202)	Total/NA	Drinking Water	625.1 SIM	642969
MB 570-642969/1-A	Method Blank	Total/NA	Water	625.1 SIM	642969
LCS 570-642969/2-A	Lab Control Sample	Total/NA	Water	625.1 SIM	642969
LCSD 570-642969/3-A	Lab Control Sample Dup	Total/NA	Water	625.1 SIM	642969
380-177173-A-1-A MS	Matrix Spike	Total/NA	Water	625.1 SIM	642969
380-177173-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	625.1 SIM	642969

## GC VOA

### Analysis Batch: 646066

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-177174-1	MOANALUA WELLS (331-223-TP202)	Total/NA	Drinking Water	8015B GRO LL	
380-177174-2	TB: MOANALUA WELLS (331-223-TP202)	Total/NA	Water	8015B GRO LL	
MB 570-646066/6	Method Blank	Total/NA	Water	8015B GRO LL	
LCS 570-646066/4	Lab Control Sample	Total/NA	Water	8015B GRO LL	
LCSD 570-646066/5	Lab Control Sample Dup	Total/NA	Water	8015B GRO LL	
MRL 570-646066/3	Lab Control Sample	Total/NA	Water	8015B GRO LL	

# QC Association Summary

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

Job ID: 380-177174-1  
 SDG: Weekly: Moanalua Wells

## GC VOA (Continued)

### Analysis Batch: 646066 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-178070-B-1 MS	Matrix Spike	Total/NA	Water	8015B GRO LL	
380-178070-B-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8015B GRO LL	

## GC Semi VOA

### Prep Batch: 642248

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-177174-1	MOANALUA WELLS (331-223-TP202)	Total/NA	Drinking Water	3510C	
MB 570-642248/1-A	Method Blank	Total/NA	Water	3510C	
LCS 570-642248/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 570-642248/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MRL 570-642248/4-A	Lab Control Sample	Total/NA	Water	3510C	
380-177173-C-1-A MS	Matrix Spike	Total/NA	Water	3510C	
380-177173-C-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	3510C	

### Analysis Batch: 646397

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-177174-1	MOANALUA WELLS (331-223-TP202)	Total/NA	Drinking Water	8015B	642248
MB 570-642248/1-A	Method Blank	Total/NA	Water	8015B	642248
LCS 570-642248/2-A	Lab Control Sample	Total/NA	Water	8015B	642248
LCSD 570-642248/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	642248
MRL 570-642248/4-A	Lab Control Sample	Total/NA	Water	8015B	642248
380-177173-C-1-A MS	Matrix Spike	Total/NA	Water	8015B	642248
380-177173-C-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	8015B	642248



## Lab Chronicle

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

Job ID: 380-177174-1  
SDG: Weekly: Moanalua Wells

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

**Lab Sample ID: 380-177174-1**

Date Collected: 10/13/25 10:03

Matrix: Drinking Water

Date Received: 10/15/25 10:27

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			181132	IQ42	EA POM	10/21/25 13:08
Total/NA	Analysis	525.2		1	181462	Q8LA	EA POM	10/22/25 17:22
Total/NA	Prep	625.1			642969	H1SH	EET CAL 4	10/20/25 06:11
Total/NA	Analysis	625.1		1	646232	PQS1	EET CAL 4	10/26/25 05:48
Total/NA	Prep	625.1			642969	H1SH	EET CAL 4	10/20/25 06:11
Total/NA	Analysis	625.1 SIM		1	646236	PQS1	EET CAL 4	10/26/25 05:47
Total/NA	Analysis	8015B GRO LL		1	646066	YD9V	EET CAL 4	10/25/25 14:51
Total/NA	Prep	3510C			642248	TVD6	EET CAL 4	10/17/25 15:32
Total/NA	Analysis	8015B		1	646397	H6FE	EET CAL 4	10/26/25 20:48

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

**Lab Sample ID: 380-177174-2**

Date Collected: 10/13/25 10:03

Matrix: Water

Date Received: 10/15/25 10:27

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015B GRO LL		1	646066	YD9V	EET CAL 4	10/25/25 18:32

**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: 380-177174-1  
 SDG: Weekly: Moanalua Wells

## Laboratory: Eurofins Eaton Analytical Pomona

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

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

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

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

## Laboratory: Eurofins Calscience

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

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

# Accreditation/Certification Summary

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

Job ID: 380-177174-1  
SDG: Weekly: Moanalua Wells

## Laboratory: Eurofins Calscience (Continued)

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

Authority	Program	Identification Number	Expiration Date
California	State	3082	07-31-26
Kansas	NELAP	E-10420	07-31-26
Nevada	State	CA00111	07-31-26
Oregon	NELAP	4175	02-02-26
USDA	US Federal Programs	525-23-159-97150	06-08-26
Utah	NELAP	CA00111	02-28-26
Washington	State	C916	10-11-26

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# Method Summary

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

Job ID: 380-177174-1  
SDG: Weekly: Moanalua Wells

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: 380-177174-1  
SDG: Weekly: Moanalua Wells

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	PWSID Number
380-177174-1	MOANALUA WELLS (331-223-TP202)	Drinking Water	10/13/25 10:03	10/15/25 10:27	HI0000331
380-177174-2	TB: MOANALUA WELLS (331-223-TP202)	Water	10/13/25 10:03	10/15/25 10:27	

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**Eurofins Eaton Analytical Pomona**

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

**Chain of Custody Record**



eurofins

Loc: 380  
En **177174**

<b>Client Information (Sub Contract Lab)</b>		Sampler: N/A		Lab PM: Lopez, Maria		Carrier Tracking No(s): N/A		COC No: 380-265274.1	
Client Contact:		Phone: N/A		E-Mail: Maria.Lopez@et.eurofinsus.com		State of Origin: Hawaii		Page: Page 1 of 1	
<b>Shipping/Receiving</b>		Company: Eurofins Environment Testing Southwest		Accreditations Required (See note): State - Hawaii				Job #: 380-177174-1	
Address: 2841 Dow Avenue, Suite 100, Tustin, CA, 92780		Due Date Requested: 10/28/2025		TAT Requested (days): N/A		<b>Analysis Requested</b>		Preservation Codes:	
Phone: 714-895-5494(Tel)		PO #: N/A		Project #: 38001111		Field Filtered Sample (Yes or No) <input type="checkbox"/> Perform MS/MSD (Yes or No) <input type="checkbox"/> 626_1_SIN625_Prep(MOD) Extended PAH List 8015B_DRO_LL_CS2510C_LLHLH_Ranges: C10-C24/C24-C36/CB-C18 8015B_GRO_LL5030C(MOD) GRO		Other: N/A	
Email: N/A		WO #: N/A		SSOW#: N/A				Total Number of Containers:	
Project Name: RED-HILL		Project #: 38001111		Site: Honolulu BWS Sites				Special Instructions/Note:	
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 (W=water, S=solid, O=waterfall, BT=Tissue, A=Air)</b>	
								Preservation Code:	
MOANALUA WELLS (331-223-TP202) (380-177174-1)		10/13/25		10:03 Hawaiian		G Water		X X X	
TB: MOANALUA WELLS (331-223-TP202) (380-177174-2)		10/13/25		10:03 Hawaiian		G Water		X	
								MRLs are needed. Confirm any hits >RL.	
								MRLs are needed.	



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

<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 Vratich</i>		Date/Time: 10/16/25 1600	Company: <i>EEAP</i>	Received by: <i>Gini L</i>	
Relinquished by: <i>Erici L...</i>		Date/Time: 10/16/25 1707	Company: <i>WP</i>	Received by: <i>[Signature]</i>	
Relinquished by:		Date/Time:	Company:	Received by:	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 19/21 IR-2	



## Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-177174-1  
SDG Number: Weekly: Moanalua Wells

**Login Number: 177174**

**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: 380-177174-1  
SDG Number: Weekly: Moanalua Wells

**Login Number: 177174**

**List Number: 2**

**Creator: Khana, Piyush**

**List Source: Eurofins Calscience**

**List Creation: 10/16/25 06:50 PM**

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	False	