

# ANALYTICAL REPORT

## PREPARED FOR

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## JOB DESCRIPTION

RED-HILL  
Weekly: Ka'amilo Wells P1  
RUSH Weekly Red Hill

## JOB NUMBER

380-209775-1

# Eurofins Pomona

## Job Notes

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

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

## Compliance Statement

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

## Authorization



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## Definitions/Glossary

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

Job ID: 380-209775-1  
SDG: Weekly: Ka'amilo Wells P1

### 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 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: 380-209775-1

**Job ID: 380-209775-1**

**Eurofins Pomona**

## Job Narrative 380-209775-1

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 4/22/2026 10:22 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.7°C.

### GC/MS Semi VOA

Method 625.1 SIM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 570-729809 and analytical batch 570-729996 were outside control limits. Sample matrix interference is suspected.

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

### Gasoline Range Organics

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

### Diesel Range Organics

Method 8015B: The method reporting limit check (MRL) for preparation batch 570-728927 and analytical batch 570-732313 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.

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# Detection Summary

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

Job ID: 380-209775-1  
SDG: Weekly: Ka'amilo Wells P1

**Client Sample ID: Ka'amilo Wells P1 (331-031-WL008)**  
**PWSID Number: HI0000331**

**Lab Sample ID: 380-209775-1**

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Dieldrin	0.079		0.0097	ug/L	1		525.2	Total/NA
Heptachlor epoxide (isomer B)	0.016		0.0097	ug/L	1		525.2	Total/NA

**Client Sample ID: TB: Ka'amilo Wells P1 (331-031-WL008)**

**Lab Sample ID: 380-209775-2**

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: 380-209775-1  
SDG: Weekly: Ka'amilo Wells P1

**Client Sample ID: Ka'amilo Wells P1 (331-031-WL008)**

**Lab Sample ID: 380-209775-1**

Date Collected: 04/20/26 12:34

Matrix: Water

Date Received: 04/22/26 10:22

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		04/29/26 09:51	04/30/26 12:37	1
2,4'-DDD	<0.097		0.097	ug/L		04/29/26 09:51	04/30/26 12:37	1
2,4'-DDE	<0.097		0.097	ug/L		04/29/26 09:51	04/30/26 12:37	1
2,4'-DDT	<0.097		0.097	ug/L		04/29/26 09:51	04/30/26 12:37	1
2,4-Dinitrotoluene	<0.097		0.097	ug/L		04/29/26 09:51	04/30/26 12:37	1
2,6-Dinitrotoluene	<0.097		0.097	ug/L		04/29/26 09:51	04/30/26 12:37	1
2-Methylnaphthalene	<0.097		0.097	ug/L		04/29/26 09:51	04/30/26 12:37	1
4,4'-DDD	<0.097		0.097	ug/L		04/29/26 09:51	04/30/26 12:37	1
4,4'-DDE	<0.097		0.097	ug/L		04/29/26 09:51	04/30/26 12:37	1
4,4'-DDT	<0.097		0.097	ug/L		04/29/26 09:51	04/30/26 12:37	1
Acenaphthene	<0.097		0.097	ug/L		04/29/26 09:51	04/30/26 12:37	1
Acenaphthylene	<0.097		0.097	ug/L		04/29/26 09:51	04/30/26 12:37	1
Acetochlor	<0.097		0.097	ug/L		04/29/26 09:51	04/30/26 12:37	1
Alachlor	<0.049		0.049	ug/L		04/29/26 09:51	04/30/26 12:37	1
alpha-BHC	<0.097		0.097	ug/L		04/29/26 09:51	04/30/26 12:37	1
alpha-Chlordane	<0.049		0.049	ug/L		04/29/26 09:51	04/30/26 12:37	1
Anthracene	<0.019		0.019	ug/L		04/29/26 09:51	04/30/26 12:37	1
Atrazine	<0.049		0.049	ug/L		04/29/26 09:51	04/30/26 12:37	1
Benz(a)anthracene	<0.049		0.049	ug/L		04/29/26 09:51	04/30/26 12:37	1
Benzo[a]pyrene	<0.019		0.019	ug/L		04/29/26 09:51	04/30/26 12:37	1
Benzo[b]fluoranthene	<0.019		0.019	ug/L		04/29/26 09:51	04/30/26 12:37	1
Benzo[g,h,i]perylene	<0.049		0.049	ug/L		04/29/26 09:51	04/30/26 12:37	1
Benzo[k]fluoranthene	<0.019		0.019	ug/L		04/29/26 09:51	04/30/26 12:37	1
beta-BHC	<0.097		0.097	ug/L		04/29/26 09:51	04/30/26 12:37	1
Bis(2-ethylhexyl) phthalate	<0.58		0.58	ug/L		04/29/26 09:51	04/30/26 12:37	1
Bromacil	<0.097		0.097	ug/L		04/29/26 09:51	04/30/26 12:37	1
Butachlor	<0.049		0.049	ug/L		04/29/26 09:51	04/30/26 12:37	1
Butylbenzylphthalate	<0.49		0.49	ug/L		04/29/26 09:51	04/30/26 12:37	1
Chlorobenzilate	<0.097		0.097	ug/L		04/29/26 09:51	04/30/26 12:37	1
Chloroneb	<0.097		0.097	ug/L		04/29/26 09:51	04/30/26 12:37	1
Chlorothalonil (Draconil, Bravo)	<0.097		0.097	ug/L		04/29/26 09:51	04/30/26 12:37	1
Chlorpyrifos	<0.049		0.049	ug/L		04/29/26 09:51	04/30/26 12:37	1
Chrysene	<0.019		0.019	ug/L		04/29/26 09:51	04/30/26 12:37	1
delta-BHC	<0.097		0.097	ug/L		04/29/26 09:51	04/30/26 12:37	1
Di(2-ethylhexyl)adipate	<0.58		0.58	ug/L		04/29/26 09:51	04/30/26 12:37	1
Dibenz(a,h)anthracene	<0.049		0.049	ug/L		04/29/26 09:51	04/30/26 12:37	1
Diclorvos (DDVP)	<0.049		0.049	ug/L		04/29/26 09:51	04/30/26 12:37	1
<b>Dieldrin</b>	<b>0.079</b>		0.0097	ug/L		04/29/26 09:51	04/30/26 12:37	1
Diethylphthalate	<0.49		0.49	ug/L		04/29/26 09:51	04/30/26 12:37	1
Dimethylphthalate	<0.49		0.49	ug/L		04/29/26 09:51	04/30/26 12:37	1
Di-n-butyl phthalate	<0.97		0.97	ug/L		04/29/26 09:51	04/30/26 12:37	1
Di-n-octyl phthalate	<0.097		0.097	ug/L		04/29/26 09:51	04/30/26 12:37	1
Endosulfan I (Alpha)	<0.097		0.097	ug/L		04/29/26 09:51	04/30/26 12:37	1
Endosulfan II (Beta)	<0.097		0.097	ug/L		04/29/26 09:51	04/30/26 12:37	1
Endosulfan sulfate	<0.097		0.097	ug/L		04/29/26 09:51	04/30/26 12:37	1
Endrin	<0.0097		0.0097	ug/L		04/29/26 09:51	04/30/26 12:37	1
Endrin aldehyde	<0.097		0.097	ug/L		04/29/26 09:51	04/30/26 12:37	1
EPTC	<0.097		0.097	ug/L		04/29/26 09:51	04/30/26 12:37	1
Fluoranthene	<0.097		0.097	ug/L		04/29/26 09:51	04/30/26 12:37	1

# Client Sample Results

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

Job ID: 380-209775-1  
SDG: Weekly: Ka'amilo Wells P1

**Client Sample ID: Ka'amilo Wells P1 (331-031-WL008)**

**Lab Sample ID: 380-209775-1**

Date Collected: 04/20/26 12:34

Matrix: Water

Date Received: 04/22/26 10:22

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		04/29/26 09:51	04/30/26 12:37	1
gamma-Chlordane	<0.049		0.049	ug/L		04/29/26 09:51	04/30/26 12:37	1
Heptachlor	<0.0097		0.0097	ug/L		04/29/26 09:51	04/30/26 12:37	1
<b>Heptachlor epoxide (isomer B)</b>	<b>0.016</b>		0.0097	ug/L		04/29/26 09:51	04/30/26 12:37	1
Hexachlorobenzene	<0.049		0.049	ug/L		04/29/26 09:51	04/30/26 12:37	1
Hexachlorocyclopentadiene	<0.049		0.049	ug/L		04/29/26 09:51	04/30/26 12:37	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049	ug/L		04/29/26 09:51	04/30/26 12:37	1
Isophorone	<0.097		0.097	ug/L		04/29/26 09:51	04/30/26 12:37	1
Lindane	<0.0097		0.0097	ug/L		04/29/26 09:51	04/30/26 12:37	1
Malathion	<0.097		0.097	ug/L		04/29/26 09:51	04/30/26 12:37	1
Methoxychlor	<0.049	^3+	0.049	ug/L		04/29/26 09:51	04/30/26 12:37	1
Metolachlor	<0.049		0.049	ug/L		04/29/26 09:51	04/30/26 12:37	1
Molinate	<0.097		0.097	ug/L		04/29/26 09:51	04/30/26 12:37	1
Naphthalene	<0.097		0.097	ug/L		04/29/26 09:51	04/30/26 12:37	1
Parathion	<0.097		0.097	ug/L		04/29/26 09:51	04/30/26 12:37	1
Pendimethalin (Penoxaline)	<0.097		0.097	ug/L		04/29/26 09:51	04/30/26 12:37	1
Phenanthrene	<0.039		0.039	ug/L		04/29/26 09:51	04/30/26 12:37	1
Propachlor	<0.049		0.049	ug/L		04/29/26 09:51	04/30/26 12:37	1
Pyrene	<0.049		0.049	ug/L		04/29/26 09:51	04/30/26 12:37	1
Simazine	<0.049		0.049	ug/L		04/29/26 09:51	04/30/26 12:37	1
Terbacil	<0.097		0.097	ug/L		04/29/26 09:51	04/30/26 12:37	1
Terbutylazine	<0.097		0.097	ug/L		04/29/26 09:51	04/30/26 12:37	1
Thiobencarb	<0.097		0.097	ug/L		04/29/26 09:51	04/30/26 12:37	1
Total Permethrin (mixed isomers)	<0.19		0.19	ug/L		04/29/26 09:51	04/30/26 12:37	1
trans-Nonachlor	<0.049		0.049	ug/L		04/29/26 09:51	04/30/26 12:37	1
Trifluralin	<0.097		0.097	ug/L		04/29/26 09:51	04/30/26 12:37	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	04/29/26 09:51	04/30/26 12:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	99		70 - 130	04/29/26 09:51	04/30/26 12:37	1
Perylene-d12	89		70 - 130	04/29/26 09:51	04/30/26 12:37	1
Triphenylphosphate	109		70 - 130	04/29/26 09:51	04/30/26 12:37	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		04/25/26 08:24	04/26/26 08:27	1
2-Methylnaphthalene	<0.19		0.19	ug/L		04/25/26 08:24	04/26/26 08:27	1
Acenaphthene	<0.19		0.19	ug/L		04/25/26 08:24	04/26/26 08:27	1
Acenaphthylene	<0.19		0.19	ug/L		04/25/26 08:24	04/26/26 08:27	1
Anthracene	<0.19		0.19	ug/L		04/25/26 08:24	04/26/26 08:27	1
Benzo[a]anthracene	<0.19		0.19	ug/L		04/25/26 08:24	04/26/26 08:27	1
Benzo[a]pyrene	<0.19		0.19	ug/L		04/25/26 08:24	04/26/26 08:27	1
Benzo[b]fluoranthene	<0.19		0.19	ug/L		04/25/26 08:24	04/26/26 08:27	1
Benzo[g,h,i]perylene	<0.19		0.19	ug/L		04/25/26 08:24	04/26/26 08:27	1
Benzo[k]fluoranthene	<0.19		0.19	ug/L		04/25/26 08:24	04/26/26 08:27	1
Chrysene	<0.19		0.19	ug/L		04/25/26 08:24	04/26/26 08:27	1
Dibenz(a,h)anthracene	<0.19		0.19	ug/L		04/25/26 08:24	04/26/26 08:27	1
Fluoranthene	<0.19		0.19	ug/L		04/25/26 08:24	04/26/26 08:27	1

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# Client Sample Results

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

Job ID: 380-209775-1  
SDG: Weekly: Ka'amilo Wells P1

**Client Sample ID: Ka'amilo Wells P1 (331-031-WL008)**

**Lab Sample ID: 380-209775-1**

Date Collected: 04/20/26 12:34

Matrix: Water

Date Received: 04/22/26 10:22

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		04/25/26 08:24	04/26/26 08:27	1
Indeno[1,2,3-cd]pyrene	<0.19		0.19	ug/L		04/25/26 08:24	04/26/26 08:27	1
Naphthalene	<0.19		0.19	ug/L		04/25/26 08:24	04/26/26 08:27	1
Phenanthrene	<0.19		0.19	ug/L		04/25/26 08:24	04/26/26 08:27	1
Pyrene	<0.19		0.19	ug/L		04/25/26 08:24	04/26/26 08:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	92		28 - 127	04/25/26 08:24	04/26/26 08:27	1
2-Fluorobiphenyl (Surr)	76		31 - 120	04/25/26 08:24	04/26/26 08:27	1
2-Fluorophenol (Surr)	46		17 - 120	04/25/26 08:24	04/26/26 08:27	1
Nitrobenzene-d5 (Surr)	82		27 - 120	04/25/26 08:24	04/26/26 08:27	1
Phenol-d6 (Surr)	28		10 - 120	04/25/26 08:24	04/26/26 08:27	1
p-Terphenyl-d14 (Surr)	66		45 - 120	04/25/26 08:24	04/26/26 08:27	1

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

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	04/25/26 08:24	04/30/26 09:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	47		33 - 139	04/25/26 08:24	04/30/26 09:09	1
2-Fluorobiphenyl (Surr)	74		33 - 126	04/25/26 08:24	04/30/26 09:09	1
2-Fluorophenol (Surr)	42		12 - 120	04/25/26 08:24	04/30/26 09:09	1
Nitrobenzene-d5 (Surr)	66		36 - 120	04/25/26 08:24	04/30/26 09:09	1
Phenol-d6 (Surr)	23		10 - 120	04/25/26 08:24	04/30/26 09:09	1
p-Terphenyl-d14 (Surr)	64		47 - 131	04/25/26 08:24	04/30/26 09:09	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			05/01/26 22:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		38 - 134		05/01/26 22:13	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		04/24/26 09:13	05/01/26 03:59	1
Motor Oil Range Organics [C24-C36]	<26		26	ug/L		04/24/26 09:13	05/01/26 03:59	1
C8-C18	<26		26	ug/L		04/24/26 09:13	05/01/26 03:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	112		60 - 130	04/24/26 09:13	05/01/26 03:59	1

**Client Sample ID: TB: Ka'amilo Wells P1 (331-031-WL008)**

**Lab Sample ID: 380-209775-2**

Date Collected: 04/20/26 12:34

Matrix: Water

Date Received: 04/22/26 10:22

**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			05/01/26 20:16	1

# Client Sample Results

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

Job ID: 380-209775-1  
SDG: Weekly: Ka'amilo Wells P1

**Client Sample ID: TB: Ka'amilo Wells P1 (331-031-WL008)**

**Lab Sample ID: 380-209775-2**

Date Collected: 04/20/26 12:34

Matrix: Water

Date Received: 04/22/26 10:22

<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)	98		38 - 134		05/01/26 20:16	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: 380-209775-1  
SDG: Weekly: Ka'amilo Wells P1

**Client Sample ID: Ka'amilo Wells P1 (331-031-WL008)**

**Lab Sample ID: 380-209775-1**

**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)	0.016		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	^3+	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: 380-209775-1  
SDG: Weekly: Ka'amilo Wells P1

## 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)
380-209764-I-1-A DU	Duplicate	95	91	114
380-209769-I-1-A MS	Matrix Spike	98	88	109
380-209775-1	Ka'amilo Wells P1 (331-031-WL008)	99	89	109
LCS 380-223780/23-A	Lab Control Sample	95	96	107
MB 380-223780/21-A	Method Blank	96	87	101
MRL 380-223780/22-A	Lab Control Sample	95	91	105

**Surrogate Legend**

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

## 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)
380-209775-1	Ka'amilo Wells P1 (331-031-WL008)	47	74	42	66	23	64
MB 570-729809/1-A	Method Blank	42	70	44	67	26	65

**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)
380-209775-1	Ka'amilo Wells P1 (331-031-WL008)	92	76	46	82	28	66
380-209810-A-2-A MS	Matrix Spike	71	62	42	63	28	46
380-209810-A-2-B MSD	Matrix Spike Duplicate	83	72	47	71	32	60
LCS 570-729809/2-A	Lab Control Sample	72	73	54	66	34	71
LCS 570-729809/3-A	Lab Control Sample Dup	78	76	58	68	37	73
MB 570-729809/1-A	Method Blank	93	82	58	90	35	77

**Surrogate Legend**

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

# Surrogate Summary

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

Job ID: 380-209775-1  
 SDG: Weekly: Ka'amilo Wells P1

## 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)
380-209764-B-1 MS	Matrix Spike	88
380-209764-B-1 MSD	Matrix Spike Duplicate	93
380-209775-1	Ka'amilo Wells P1 (331-031-WL008)	93
380-209775-2	TB: Ka'amilo Wells P1 (331-031-WL008)	98
LCS 570-732721/3	Lab Control Sample	86
LCSD 570-732721/4	Lab Control Sample Dup	77
MB 570-732721/6	Method Blank	92
MRL 570-732721/5	Lab Control Sample	88

**Surrogate Legend**

BFB = 4-Bromofluorobenzene (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)
380-209764-C-1-A MS	Matrix Spike	116
380-209764-C-1-B MSD	Matrix Spike Duplicate	102
380-209775-1	Ka'amilo Wells P1 (331-031-WL008)	112
LCS 570-728927/2-A	Lab Control Sample	128
LCSD 570-728927/3-A	Lab Control Sample Dup	102
MB 570-728927/1-A	Method Blank	95
MRL 570-728927/4-A	Lab Control Sample	130

**Surrogate Legend**

OTCSN = n-Octacosane (Surr)

# QC Sample Results

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

Job ID: 380-209775-1  
SDG: Weekly: Ka'amilo Wells P1

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

**Lab Sample ID: MB 380-223780/21-A**  
**Matrix: Water**  
**Analysis Batch: 224002**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 223780**

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
1-Methylnaphthalene	<0.099		0.099	ug/L		04/29/26 09:51	04/30/26 07:10	1
2,4'-DDD	<0.099		0.099	ug/L		04/29/26 09:51	04/30/26 07:10	1
2,4'-DDE	<0.099		0.099	ug/L		04/29/26 09:51	04/30/26 07:10	1
2,4'-DDT	<0.099		0.099	ug/L		04/29/26 09:51	04/30/26 07:10	1
2,4-Dinitrotoluene	<0.099		0.099	ug/L		04/29/26 09:51	04/30/26 07:10	1
2,6-Dinitrotoluene	<0.099		0.099	ug/L		04/29/26 09:51	04/30/26 07:10	1
2-Methylnaphthalene	<0.099		0.099	ug/L		04/29/26 09:51	04/30/26 07:10	1
4,4'-DDD	<0.099		0.099	ug/L		04/29/26 09:51	04/30/26 07:10	1
4,4'-DDE	<0.099		0.099	ug/L		04/29/26 09:51	04/30/26 07:10	1
4,4'-DDT	<0.099		0.099	ug/L		04/29/26 09:51	04/30/26 07:10	1
Acenaphthene	<0.099		0.099	ug/L		04/29/26 09:51	04/30/26 07:10	1
Acenaphthylene	<0.099		0.099	ug/L		04/29/26 09:51	04/30/26 07:10	1
Acetochlor	<0.099		0.099	ug/L		04/29/26 09:51	04/30/26 07:10	1
Alachlor	<0.049		0.049	ug/L		04/29/26 09:51	04/30/26 07:10	1
alpha-BHC	<0.099		0.099	ug/L		04/29/26 09:51	04/30/26 07:10	1
alpha-Chlordane	<0.049		0.049	ug/L		04/29/26 09:51	04/30/26 07:10	1
Anthracene	<0.020		0.020	ug/L		04/29/26 09:51	04/30/26 07:10	1
Atrazine	<0.049		0.049	ug/L		04/29/26 09:51	04/30/26 07:10	1
Benz(a)anthracene	<0.049		0.049	ug/L		04/29/26 09:51	04/30/26 07:10	1
Benzo[a]pyrene	<0.020		0.020	ug/L		04/29/26 09:51	04/30/26 07:10	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L		04/29/26 09:51	04/30/26 07:10	1
Benzo[g,h,i]perylene	<0.049		0.049	ug/L		04/29/26 09:51	04/30/26 07:10	1
Benzo[k]fluoranthene	<0.020		0.020	ug/L		04/29/26 09:51	04/30/26 07:10	1
beta-BHC	<0.099		0.099	ug/L		04/29/26 09:51	04/30/26 07:10	1
Bis(2-ethylhexyl) phthalate	<0.59		0.59	ug/L		04/29/26 09:51	04/30/26 07:10	1
Bromacil	<0.099		0.099	ug/L		04/29/26 09:51	04/30/26 07:10	1
Butachlor	<0.049		0.049	ug/L		04/29/26 09:51	04/30/26 07:10	1
Butylbenzylphthalate	<0.49		0.49	ug/L		04/29/26 09:51	04/30/26 07:10	1
Chlorobenzilate	<0.099		0.099	ug/L		04/29/26 09:51	04/30/26 07:10	1
Chloroneb	<0.099		0.099	ug/L		04/29/26 09:51	04/30/26 07:10	1
Chlorothalonil (Draconil, Bravo)	<0.099		0.099	ug/L		04/29/26 09:51	04/30/26 07:10	1
Chlorpyrifos	<0.049		0.049	ug/L		04/29/26 09:51	04/30/26 07:10	1
Chrysene	<0.020		0.020	ug/L		04/29/26 09:51	04/30/26 07:10	1
delta-BHC	<0.099		0.099	ug/L		04/29/26 09:51	04/30/26 07:10	1
Di(2-ethylhexyl)adipate	<0.59		0.59	ug/L		04/29/26 09:51	04/30/26 07:10	1
Dibenz(a,h)anthracene	<0.049		0.049	ug/L		04/29/26 09:51	04/30/26 07:10	1
Diclorvos (DDVP)	<0.049		0.049	ug/L		04/29/26 09:51	04/30/26 07:10	1
Dieldrin	<0.0099		0.0099	ug/L		04/29/26 09:51	04/30/26 07:10	1
Diethylphthalate	<0.49		0.49	ug/L		04/29/26 09:51	04/30/26 07:10	1
Dimethylphthalate	<0.49		0.49	ug/L		04/29/26 09:51	04/30/26 07:10	1
Di-n-butyl phthalate	<0.99		0.99	ug/L		04/29/26 09:51	04/30/26 07:10	1
Di-n-octyl phthalate	<0.099		0.099	ug/L		04/29/26 09:51	04/30/26 07:10	1
Endosulfan I (Alpha)	<0.099		0.099	ug/L		04/29/26 09:51	04/30/26 07:10	1
Endosulfan II (Beta)	<0.099		0.099	ug/L		04/29/26 09:51	04/30/26 07:10	1
Endosulfan sulfate	<0.099		0.099	ug/L		04/29/26 09:51	04/30/26 07:10	1
Endrin	<0.0099		0.0099	ug/L		04/29/26 09:51	04/30/26 07:10	1
Endrin aldehyde	<0.099		0.099	ug/L		04/29/26 09:51	04/30/26 07:10	1
EPTC	<0.099		0.099	ug/L		04/29/26 09:51	04/30/26 07:10	1

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# QC Sample Results

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

Job ID: 380-209775-1  
SDG: Weekly: Ka'amilo Wells P1

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

**Lab Sample ID: MB 380-223780/21-A**  
**Matrix: Water**  
**Analysis Batch: 224002**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 223780**

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Fluoranthene	<0.099		0.099	ug/L		04/29/26 09:51	04/30/26 07:10	1
Fluorene	<0.049		0.049	ug/L		04/29/26 09:51	04/30/26 07:10	1
gamma-Chlordane	<0.049		0.049	ug/L		04/29/26 09:51	04/30/26 07:10	1
Heptachlor	<0.0099		0.0099	ug/L		04/29/26 09:51	04/30/26 07:10	1
Heptachlor epoxide (isomer B)	<0.0099		0.0099	ug/L		04/29/26 09:51	04/30/26 07:10	1
Hexachlorobenzene	<0.049		0.049	ug/L		04/29/26 09:51	04/30/26 07:10	1
Hexachlorocyclopentadiene	<0.049		0.049	ug/L		04/29/26 09:51	04/30/26 07:10	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049	ug/L		04/29/26 09:51	04/30/26 07:10	1
Isophorone	<0.099		0.099	ug/L		04/29/26 09:51	04/30/26 07:10	1
Lindane	<0.0099		0.0099	ug/L		04/29/26 09:51	04/30/26 07:10	1
Malathion	<0.099		0.099	ug/L		04/29/26 09:51	04/30/26 07:10	1
Methoxychlor	<0.049	^3+	0.049	ug/L		04/29/26 09:51	04/30/26 07:10	1
Metolachlor	<0.049		0.049	ug/L		04/29/26 09:51	04/30/26 07:10	1
Molinate	<0.099		0.099	ug/L		04/29/26 09:51	04/30/26 07:10	1
Naphthalene	<0.099		0.099	ug/L		04/29/26 09:51	04/30/26 07:10	1
Parathion	<0.099		0.099	ug/L		04/29/26 09:51	04/30/26 07:10	1
Pendimethalin (Penoxaline)	<0.099		0.099	ug/L		04/29/26 09:51	04/30/26 07:10	1
Phenanthrene	<0.040		0.040	ug/L		04/29/26 09:51	04/30/26 07:10	1
Propachlor	<0.049		0.049	ug/L		04/29/26 09:51	04/30/26 07:10	1
Pyrene	<0.049		0.049	ug/L		04/29/26 09:51	04/30/26 07:10	1
Simazine	<0.049		0.049	ug/L		04/29/26 09:51	04/30/26 07:10	1
Terbacil	<0.099		0.099	ug/L		04/29/26 09:51	04/30/26 07:10	1
Terbutylazine	<0.099		0.099	ug/L		04/29/26 09:51	04/30/26 07:10	1
Thiobencarb	<0.099		0.099	ug/L		04/29/26 09:51	04/30/26 07:10	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		04/29/26 09:51	04/30/26 07:10	1
trans-Nonachlor	<0.049		0.049	ug/L		04/29/26 09:51	04/30/26 07:10	1
Trifluralin	<0.099		0.099	ug/L		04/29/26 09:51	04/30/26 07:10	1

Tentatively Identified Compound	MB	MB	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
	Est. Result	Qualifier							
Undecane	3.69	T J N	ug/L		3.12	1120-21-4	04/29/26 09:51	04/30/26 07:10	1
9-Octadecenamides, (Z)-	0.852	T J N	ug/L		7.86	301-02-0	04/29/26 09:51	04/30/26 07:10	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2-Nitro-m-xylene	96		70 - 130	04/29/26 09:51	04/30/26 07:10	1
Perylene-d12	87		70 - 130	04/29/26 09:51	04/30/26 07:10	1
Triphenylphosphate	101		70 - 130	04/29/26 09:51	04/30/26 07:10	1

**Lab Sample ID: LCS 380-223780/23-A**  
**Matrix: Water**  
**Analysis Batch: 224002**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 223780**

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
1-Methylnaphthalene	1.97	1.92		ug/L		98	70 - 130
2,4'-DDD	1.97	2.07		ug/L		105	70 - 130
2,4'-DDE	1.97	1.99		ug/L		101	70 - 130
2,4'-DDT	1.97	2.02		ug/L		103	70 - 130
2,4-Dinitrotoluene	1.97	2.10		ug/L		106	70 - 130
2,6-Dinitrotoluene	1.97	2.07		ug/L		105	70 - 130

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# QC Sample Results

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

Job ID: 380-209775-1  
 SDG: Weekly: Ka'amilo Wells P1

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

Lab Sample ID: LCS 380-223780/23-A

Matrix: Water

Analysis Batch: 224002

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 223780

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec Limits
	Added	Result	Qualifier				
2-Methylnaphthalene	1.97	1.98		ug/L		101	70 - 130
4,4'-DDD	1.97	2.21		ug/L		112	70 - 130
4,4'-DDE	1.97	1.96		ug/L		99	70 - 130
4,4'-DDT	1.97	2.21		ug/L		112	70 - 130
Acenaphthene	1.97	2.02		ug/L		103	70 - 130
Acenaphthylene	1.97	2.02		ug/L		103	70 - 130
Acetochlor	1.97	2.04		ug/L		104	70 - 130
Alachlor	1.97	2.02		ug/L		102	70 - 130
alpha-BHC	1.97	2.09		ug/L		106	70 - 130
alpha-Chlordane	1.97	2.20		ug/L		112	70 - 130
Anthracene	1.97	1.76		ug/L		89	70 - 130
Atrazine	1.97	2.05		ug/L		104	70 - 130
Benz(a)anthracene	1.97	2.25		ug/L		114	70 - 130
Benzo[a]pyrene	1.97	2.07		ug/L		105	70 - 130
Benzo[b]fluoranthene	1.97	2.21		ug/L		112	70 - 130
Benzo[g,h,i]perylene	1.97	2.10		ug/L		106	70 - 130
Benzo[k]fluoranthene	1.97	2.06		ug/L		104	70 - 130
beta-BHC	1.97	2.17		ug/L		110	70 - 130
Bis(2-ethylhexyl) phthalate	1.97	2.00		ug/L		101	70 - 130
Bromacil	1.97	2.00		ug/L		101	70 - 130
Butachlor	1.97	2.09		ug/L		106	70 - 130
Butylbenzylphthalate	1.97	2.19		ug/L		111	70 - 130
Chlorobenzilate	1.97	2.13		ug/L		108	70 - 130
Chloroneb	1.97	2.16		ug/L		109	70 - 130
Chlorothalonil (Draconil, Bravo)	1.97	1.96		ug/L		99	70 - 130
Chlorpyrifos	1.97	2.08		ug/L		105	70 - 130
Chrysene	1.97	2.27		ug/L		115	70 - 130
delta-BHC	1.97	2.03		ug/L		103	70 - 130
Di(2-ethylhexyl)adipate	1.97	2.14		ug/L		109	70 - 130
Dibenz(a,h)anthracene	1.97	2.07		ug/L		105	70 - 130
Diclorvos (DDVP)	1.97	2.17		ug/L		110	70 - 130
Dieldrin	1.97	2.22		ug/L		112	70 - 130
Diethylphthalate	1.97	2.19		ug/L		111	70 - 130
Dimethylphthalate	1.97	2.12		ug/L		108	70 - 130
Di-n-butyl phthalate	3.94	4.36		ug/L		111	70 - 130
Di-n-octyl phthalate	1.97	1.99		ug/L		101	70 - 130
Endosulfan I (Alpha)	1.97	2.22		ug/L		112	70 - 130
Endosulfan II (Beta)	1.97	2.22		ug/L		113	70 - 130
Endosulfan sulfate	1.97	2.06		ug/L		105	70 - 130
Endrin	1.97	2.34		ug/L		119	70 - 130
Endrin aldehyde	1.97	2.08		ug/L		106	60 - 130
EPTC	1.97	2.17		ug/L		110	70 - 130
Fluoranthene	1.97	2.11		ug/L		107	70 - 130
Fluorene	1.97	2.16		ug/L		110	70 - 130
gamma-Chlordane	1.97	2.30		ug/L		117	70 - 130
Heptachlor	1.97	2.14		ug/L		109	70 - 130
Heptachlor epoxide (isomer B)	1.97	2.11		ug/L		107	70 - 130
Hexachlorobenzene	1.97	2.06		ug/L		105	70 - 130
Hexachlorocyclopentadiene	1.97	1.94		ug/L		98	70 - 130

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# QC Sample Results

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

Job ID: 380-209775-1  
SDG: Weekly: Ka'amilo Wells P1

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

**Lab Sample ID: LCS 380-223780/23-A**

**Matrix: Water**

**Analysis Batch: 224002**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 223780**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Indeno[1,2,3-cd]pyrene	1.97	2.12		ug/L		107	70 - 130
Isophorone	1.97	1.93		ug/L		98	70 - 130
Lindane	1.97	2.18		ug/L		111	70 - 130
Malathion	1.97	2.03		ug/L		103	70 - 130
Methoxychlor	1.97	2.19		ug/L		111	70 - 130
Metolachlor	1.97	2.04		ug/L		104	70 - 130
Molinate	1.97	2.18		ug/L		110	70 - 130
Naphthalene	1.97	1.93		ug/L		98	70 - 130
Parathion	1.97	2.17		ug/L		110	70 - 130
Pendimethalin (Penoxaline)	1.97	2.04		ug/L		104	70 - 130
Phenanthrene	1.97	2.06		ug/L		105	70 - 130
Propachlor	1.97	2.07		ug/L		105	70 - 130
Pyrene	1.97	2.11		ug/L		107	70 - 130
Simazine	1.97	2.05		ug/L		104	70 - 130
Terbacil	1.97	2.10		ug/L		106	70 - 130
Terbutylazine	1.97	2.11		ug/L		107	70 - 130
Thiobencarb	1.97	2.04		ug/L		104	70 - 130
trans-Nonachlor	1.97	2.05		ug/L		104	70 - 130
Trifluralin	1.97	2.05		ug/L		104	70 - 130

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Nitro-m-xylene	95		70 - 130
Perylene-d12	96		70 - 130
Triphenylphosphate	107		70 - 130

**Lab Sample ID: MRL 380-223780/22-A**

**Matrix: Water**

**Analysis Batch: 224002**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 223780**

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	0.0988	0.113		ug/L		114	50 - 150
2,4'-DDD	0.0988	0.111		ug/L		112	50 - 150
2,4'-DDE	0.0988	0.121		ug/L		122	50 - 150
2,4'-DDT	0.0988	0.123		ug/L		125	50 - 150
2,4-Dinitrotoluene	0.0988	0.125		ug/L		126	50 - 150
2,6-Dinitrotoluene	0.0988	0.141		ug/L		142	50 - 150
2-Methylnaphthalene	0.0988	0.106		ug/L		107	50 - 150
4,4'-DDD	0.0988	0.124		ug/L		126	50 - 150
4,4'-DDE	0.0988	0.109		ug/L		110	50 - 150
4,4'-DDT	0.0988	0.135		ug/L		137	50 - 150
Acenaphthene	0.0988	0.102		ug/L		103	50 - 150
Acenaphthylene	0.0988	0.0924	J	ug/L		94	50 - 150
Acetochlor	0.0988	0.135		ug/L		137	50 - 150
Alachlor	0.0494	0.0699		ug/L		142	50 - 150
alpha-BHC	0.0988	0.109		ug/L		111	50 - 150
alpha-Chlordane	0.0247	0.0321	J	ug/L		130	50 - 150
Anthracene	0.0198	0.0285		ug/L		144	50 - 150
Atrazine	0.0494	0.0740		ug/L		150	50 - 150

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# QC Sample Results

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

Job ID: 380-209775-1  
SDG: Weekly: Ka'amilo Wells P1

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

Lab Sample ID: MRL 380-223780/22-A

Matrix: Water

Analysis Batch: 224002

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 223780

Analyte	Spike	MRL	MRL	Unit	D	%Rec	%Rec Limits
	Added	Result	Qualifier				
Benz(a)anthracene	0.0494	0.0604		ug/L		122	50 - 150
Benzo[a]pyrene	0.0198	0.0267		ug/L		135	50 - 150
Benzo[b]fluoranthene	0.0198	0.0261		ug/L		132	50 - 150
Benzo[g,h,i]perylene	0.0494	0.0630		ug/L		128	50 - 150
Benzo[k]fluoranthene	0.0198	0.0256		ug/L		129	50 - 150
beta-BHC	0.0988	0.115		ug/L		117	50 - 150
Bis(2-ethylhexyl) phthalate	0.593	0.655		ug/L		111	50 - 150
Bromacil	0.0988	0.118		ug/L		119	50 - 150
Butachlor	0.0494	0.0719		ug/L		146	50 - 150
Butylbenzylphthalate	0.494	0.623		ug/L		126	50 - 150
Chlorobenzilate	0.0988	0.121		ug/L		122	50 - 150
Chloroneb	0.0988	0.116		ug/L		117	50 - 150
Chlorothalonil (Draconil, Bravo)	0.0988	0.111		ug/L		112	50 - 150
Chlorpyrifos	0.0494	0.0678		ug/L		137	50 - 150
Chrysene	0.0198	0.0259		ug/L		131	50 - 150
delta-BHC	0.0988	0.111		ug/L		112	50 - 150
Di(2-ethylhexyl)adipate	0.593	0.759		ug/L		128	50 - 150
Dibenz(a,h)anthracene	0.0494	0.0686		ug/L		139	50 - 150
Diclorvos (DDVP)	0.0494	0.0581		ug/L		118	50 - 150
Dieldrin	0.00988	0.00916	J	ug/L		93	50 - 150
Diethylphthalate	0.494	0.590		ug/L		119	50 - 150
Dimethylphthalate	0.494	0.573		ug/L		116	50 - 150
Di-n-butyl phthalate	0.494	0.663	J	ug/L		134	49 - 243
Di-n-octyl phthalate	0.0988	0.104		ug/L		105	50 - 150
Endosulfan I (Alpha)	0.0988	0.101		ug/L		103	50 - 150
Endosulfan II (Beta)	0.0988	0.113		ug/L		114	50 - 150
Endosulfan sulfate	0.0988	0.126		ug/L		128	50 - 150
Endrin	0.00988	0.0133		ug/L		135	50 - 150
Endrin aldehyde	0.0988	0.127		ug/L		128	50 - 150
EPTC	0.0988	0.111		ug/L		112	50 - 150
Fluoranthene	0.0988	0.114		ug/L		115	50 - 150
Fluorene	0.0494	0.0584		ug/L		118	50 - 150
gamma-Chlordane	0.0247	0.0299	J	ug/L		121	50 - 150
Heptachlor	0.00988	0.0125		ug/L		126	50 - 150
Heptachlor epoxide (isomer B)	0.00988	0.0141		ug/L		143	50 - 150
Hexachlorobenzene	0.0494	0.0578		ug/L		117	50 - 150
Hexachlorocyclopentadiene	0.0494	0.0444	J	ug/L		90	50 - 150
Indeno[1,2,3-cd]pyrene	0.0494	0.0667		ug/L		135	50 - 150
Isophorone	0.0988	0.117		ug/L		118	50 - 150
Lindane	0.00988	0.0146		ug/L		148	50 - 150
Malathion	0.0988	0.107		ug/L		108	50 - 150
Methoxychlor	0.0494	0.0779	^3+	ug/L		158	50 - 150
Metolachlor	0.0494	0.0699		ug/L		141	50 - 150
Molinate	0.0988	0.118		ug/L		119	50 - 150
Naphthalene	0.0988	0.0940	J	ug/L		95	50 - 150
Parathion	0.0988	0.100		ug/L		101	50 - 150
Pendimethalin (Penoxaline)	0.0988	0.111		ug/L		112	50 - 150
Phenanthrene	0.0395	0.0445		ug/L		113	50 - 150
Propachlor	0.0494	0.0659		ug/L		133	50 - 150

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# QC Sample Results

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

Job ID: 380-209775-1  
SDG: Weekly: Ka'amilo Wells P1

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

**Lab Sample ID: MRL 380-223780/22-A**  
**Matrix: Water**  
**Analysis Batch: 224002**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 223780**

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Pyrene	0.0494	0.0665		ug/L		135	50 - 150
Simazine	0.0494	0.0681		ug/L		138	50 - 150
Terbacil	0.0988	0.110		ug/L		112	50 - 150
Terbutylazine	0.0988	0.118		ug/L		120	50 - 150
Thiobencarb	0.0988	0.120		ug/L		122	50 - 150
trans-Nonachlor	0.0247	0.0336	J	ug/L		136	50 - 150
Trifluralin	0.0988	0.118		ug/L		119	50 - 150

Surrogate	MRL %Recovery	MRL Qualifier	Limits
2-Nitro-m-xylene	95		70 - 130
Perylene-d12	91		70 - 130
Triphenylphosphate	105		70 - 130

**Lab Sample ID: 380-209769-I-1-A MS**  
**Matrix: Water**  
**Analysis Batch: 224002**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**  
**Prep Batch: 223780**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	<0.098		1.97	2.01		ug/L		102	70 - 130
2,4'-DDD	<0.098		1.97	2.10		ug/L		107	70 - 130
2,4'-DDE	<0.098		1.97	2.05		ug/L		104	70 - 130
2,4'-DDT	<0.098		1.97	2.08		ug/L		106	70 - 130
2,4-Dinitrotoluene	<0.098		1.97	2.26		ug/L		115	70 - 130
2,6-Dinitrotoluene	<0.098		1.97	2.23		ug/L		113	70 - 130
2-Methylnaphthalene	<0.098		1.97	2.07		ug/L		105	70 - 130
4,4'-DDD	<0.098		1.97	2.27		ug/L		115	70 - 130
4,4'-DDE	<0.098		1.97	1.97		ug/L		100	70 - 130
4,4'-DDT	<0.098		1.97	2.29		ug/L		116	70 - 130
Acenaphthene	<0.098		1.97	2.07		ug/L		105	70 - 130
Acenaphthylene	<0.098		1.97	2.00		ug/L		101	70 - 130
Acetochlor	<0.098		1.97	2.08		ug/L		106	70 - 130
Alachlor	<0.049		1.97	2.08		ug/L		105	70 - 130
alpha-BHC	<0.098		1.97	2.23		ug/L		113	70 - 130
alpha-Chlordane	<0.049		1.97	2.27		ug/L		115	70 - 130
Anthracene	<0.020	F1	1.97	0.0918	F1	ug/L		5	70 - 130
Atrazine	<0.049		1.97	2.22		ug/L		113	70 - 130
Benz(a)anthracene	<0.049		1.97	1.47		ug/L		75	70 - 130
Benzo[a]pyrene	<0.020	F1	1.97	0.874	F1	ug/L		44	70 - 130
Benzo[b]fluoranthene	<0.020		1.97	2.22		ug/L		113	70 - 130
Benzo[g,h,i]perylene	<0.049		1.97	2.11		ug/L		107	70 - 130
Benzo[k]fluoranthene	<0.020		1.97	2.10		ug/L		106	70 - 130
beta-BHC	<0.098		1.97	2.34		ug/L		118	70 - 130
Bis(2-ethylhexyl) phthalate	<0.59		1.97	2.04		ug/L		104	70 - 130
Bromacil	<0.098		1.97	2.11		ug/L		107	70 - 130
Butachlor	<0.049		1.97	2.16		ug/L		109	70 - 130
Butylbenzylphthalate	<0.49		1.97	2.26		ug/L		115	70 - 130
Chlorobenzilate	<0.098		1.97	2.17		ug/L		110	70 - 130
Chloroneb	<0.098		1.97	2.27		ug/L		115	70 - 130

# QC Sample Results

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

Job ID: 380-209775-1  
SDG: Weekly: Ka'amilo Wells P1

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

**Lab Sample ID: 380-209769-I-1-A MS**

**Client Sample ID: Matrix Spike**

**Matrix: Water**

**Prep Type: Total/NA**

**Analysis Batch: 224002**

**Prep Batch: 223780**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier	Added	Result	Qualifier				
Chlorothalonil (Draconil, Bravo)	<0.098		1.97	2.08		ug/L		106	70 - 130
Chlorpyrifos	<0.049		1.97	2.20		ug/L		112	70 - 130
Chrysene	<0.020		1.97	2.26		ug/L		115	70 - 130
delta-BHC	<0.098		1.97	2.06		ug/L		105	70 - 130
Di(2-ethylhexyl)adipate	<0.59		1.97	2.20		ug/L		112	70 - 130
Dibenz(a,h)anthracene	<0.049		1.97	2.10		ug/L		106	70 - 130
Diclorvos (DDVP)	<0.049		1.97	2.27		ug/L		115	70 - 130
Dieldrin	<0.0098		1.97	2.20		ug/L		112	70 - 130
Diethylphthalate	<0.49		1.97	2.31		ug/L		117	70 - 130
Dimethylphthalate	<0.49		1.97	2.24		ug/L		113	70 - 130
Di-n-butyl phthalate	<0.98		3.94	4.37		ug/L		111	70 - 130
Di-n-octyl phthalate	<0.098		1.97	2.01		ug/L		102	70 - 130
Endosulfan I (Alpha)	<0.098		1.97	2.26		ug/L		115	70 - 130
Endosulfan II (Beta)	<0.098		1.97	2.34		ug/L		119	70 - 130
Endosulfan sulfate	<0.098		1.97	2.13		ug/L		108	70 - 130
Endrin	<0.0098		1.97	2.39		ug/L		121	70 - 130
Endrin aldehyde	<0.098		1.97	1.80		ug/L		91	60 - 130
EPTC	<0.098		1.97	2.26		ug/L		115	70 - 130
Fluoranthene	<0.098		1.97	2.12		ug/L		108	70 - 130
Fluorene	<0.049		1.97	2.27		ug/L		115	70 - 130
gamma-Chlordane	<0.049		1.97	2.35		ug/L		119	70 - 130
Heptachlor	<0.0098		1.97	2.20		ug/L		112	70 - 130
Heptachlor epoxide (isomer B)	<0.0098		1.97	2.22		ug/L		113	70 - 130
Hexachlorobenzene	<0.049		1.97	2.15		ug/L		109	70 - 130
Hexachlorocyclopentadiene	<0.049		1.97	2.05		ug/L		104	70 - 130
Indeno[1,2,3-cd]pyrene	<0.049		1.97	2.16		ug/L		110	70 - 130
Isophorone	<0.098		1.97	2.01		ug/L		102	70 - 130
Lindane	<0.0098		1.97	2.33		ug/L		118	70 - 130
Malathion	<0.098		1.97	2.07		ug/L		105	70 - 130
Methoxychlor	<0.049	^3+	1.97	2.22		ug/L		113	70 - 130
Metolachlor	<0.049		1.97	2.12		ug/L		108	70 - 130
Molinate	<0.098		1.97	2.30		ug/L		117	70 - 130
Naphthalene	<0.098		1.97	2.03		ug/L		103	70 - 130
Parathion	<0.098		1.97	2.28		ug/L		116	70 - 130
Pendimethalin (Penoxaline)	<0.098		1.97	2.22		ug/L		113	70 - 130
Phenanthrene	<0.039		1.97	2.11		ug/L		107	70 - 130
Propachlor	<0.049		1.97	2.20		ug/L		112	70 - 130
Pyrene	<0.049		1.97	2.06		ug/L		104	70 - 130
Simazine	<0.049		1.97	2.20		ug/L		111	70 - 130
Terbacil	<0.098		1.97	2.13		ug/L		108	70 - 130
Terbutylazine	<0.098		1.97	2.24		ug/L		114	70 - 130
Thiobencarb	<0.098		1.97	2.08		ug/L		106	70 - 130
trans-Nonachlor	<0.049		1.97	2.19		ug/L		111	70 - 130
Trifluralin	<0.098		1.97	2.17		ug/L		110	70 - 130

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
2-Nitro-m-xylene	98		70 - 130
Perylene-d12	88		70 - 130

# QC Sample Results

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

Job ID: 380-209775-1  
SDG: Weekly: Ka'amilo Wells P1

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

**Lab Sample ID: 380-209769-I-1-A MS**  
**Matrix: Water**  
**Analysis Batch: 224002**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**  
**Prep Batch: 223780**

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
Triphenylphosphate	109		70 - 130

**Lab Sample ID: 380-209764-I-1-A DU**  
**Matrix: Water**  
**Analysis Batch: 224002**

**Client Sample ID: Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 223780**

Analyte	Sample Result	Sample Qualifier	DU DU		Unit	D	RPD	Limit
			Result	Qualifier				
1-Methylnaphthalene	<0.098		<0.098		ug/L		NC	20
2,4'-DDD	<0.098		<0.098		ug/L		NC	20
2,4'-DDE	<0.098		<0.098		ug/L		NC	20
2,4'-DDT	<0.098		<0.098		ug/L		NC	20
2,4-Dinitrotoluene	<0.098		<0.098		ug/L		NC	20
2,6-Dinitrotoluene	<0.098		<0.098		ug/L		NC	20
2-Methylnaphthalene	<0.098		<0.098		ug/L		NC	20
4,4'-DDD	<0.098		<0.098		ug/L		NC	20
4,4'-DDE	<0.098		<0.098		ug/L		NC	20
4,4'-DDT	<0.098		<0.098		ug/L		NC	20
Acenaphthene	<0.098		<0.098		ug/L		NC	20
Acenaphthylene	<0.098		<0.098		ug/L		NC	20
Acetochlor	<0.098		<0.098		ug/L		NC	20
Alachlor	<0.049		<0.049		ug/L		NC	20
alpha-BHC	<0.098		<0.098		ug/L		NC	20
alpha-Chlordane	<0.049		<0.049		ug/L		NC	20
Anthracene	<0.020		<0.020		ug/L		NC	20
Atrazine	<0.049		<0.049		ug/L		NC	20
Benz(a)anthracene	<0.049		<0.049		ug/L		NC	20
Benzo[a]pyrene	<0.020		<0.020		ug/L		NC	20
Benzo[b]fluoranthene	<0.020		<0.020		ug/L		NC	20
Benzo[g,h,i]perylene	<0.049		<0.049		ug/L		NC	20
Benzo[k]fluoranthene	<0.020		<0.020		ug/L		NC	20
beta-BHC	<0.098		<0.098		ug/L		NC	20
Bis(2-ethylhexyl) phthalate	<0.59		<0.59		ug/L		NC	20
Bromacil	<0.098		<0.098		ug/L		NC	20
Butachlor	<0.049		<0.049		ug/L		NC	20
Butylbenzylphthalate	<0.49		<0.49		ug/L		NC	20
Chlorobenzilate	<0.098		<0.098		ug/L		NC	20
Chloroneb	<0.098		<0.098		ug/L		NC	20
Chlorothalonil (Draconil, Bravo)	<0.098		<0.098		ug/L		NC	20
Chlorpyrifos	<0.049		<0.049		ug/L		NC	20
Chrysene	<0.020		<0.020		ug/L		NC	20
delta-BHC	<0.098		<0.098		ug/L		NC	20
Di(2-ethylhexyl)adipate	<0.59		<0.59		ug/L		NC	20
Dibenz(a,h)anthracene	<0.049		<0.049		ug/L		NC	20
Diclorvos (DDVP)	<0.049		<0.049		ug/L		NC	20
Dieldrin	0.038		0.0375		ug/L		3	20
Diethylphthalate	<0.49		<0.49		ug/L		NC	20
Dimethylphthalate	<0.49		<0.49		ug/L		NC	20
Di-n-butyl phthalate	<0.98		<0.98		ug/L		NC	20

# QC Sample Results

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

Job ID: 380-209775-1  
SDG: Weekly: Ka'amilo Wells P1

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

**Lab Sample ID: 380-209764-I-1-A DU**  
**Matrix: Water**  
**Analysis Batch: 224002**

**Client Sample ID: Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 223780**

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Di-n-octyl phthalate	<0.098		<0.098		ug/L		NC	20
Endosulfan I (Alpha)	<0.098		<0.098		ug/L		NC	20
Endosulfan II (Beta)	<0.098		<0.098		ug/L		NC	20
Endosulfan sulfate	<0.098		<0.098		ug/L		NC	20
Endrin	<0.0098		<0.0098		ug/L		NC	20
Endrin aldehyde	<0.098		<0.098		ug/L		NC	20
EPTC	<0.098		<0.098		ug/L		NC	20
Fluoranthene	<0.098		<0.098		ug/L		NC	20
Fluorene	<0.049		<0.049		ug/L		NC	20
gamma-Chlordane	<0.049		<0.049		ug/L		NC	20
Heptachlor	<0.0098		<0.0098		ug/L		NC	20
Heptachlor epoxide (isomer B)	0.017		0.0149		ug/L		11	20
Hexachlorobenzene	<0.049		<0.049		ug/L		NC	20
Hexachlorocyclopentadiene	<0.049		<0.049		ug/L		NC	20
Indeno[1,2,3-cd]pyrene	<0.049		<0.049		ug/L		NC	20
Isophorone	<0.098		<0.098		ug/L		NC	20
Lindane	<0.0098		<0.0098		ug/L		NC	20
Malathion	<0.098		<0.098		ug/L		NC	20
Methoxychlor	<0.049	^3+	<0.049		ug/L		NC	20
Metolachlor	<0.049		<0.049		ug/L		NC	20
Molinate	<0.098		<0.098		ug/L		NC	20
Naphthalene	<0.098		<0.098		ug/L		NC	20
Parathion	<0.098		<0.098		ug/L		NC	20
Pendimethalin (Penoxaline)	<0.098		<0.098		ug/L		NC	20
Phenanthrene	<0.039		<0.039		ug/L		NC	20
Propachlor	<0.049		<0.049		ug/L		NC	20
Pyrene	<0.049		<0.049		ug/L		NC	20
Simazine	<0.049		<0.049		ug/L		NC	20
Terbacil	<0.098		<0.098		ug/L		NC	20
Terbutylazine	<0.098		<0.098		ug/L		NC	20
Thiobencarb	<0.098		<0.098		ug/L		NC	20
Total Permethrin (mixed isomers)	<0.20		<0.20		ug/L		NC	20
trans-Nonachlor	<0.049		<0.049		ug/L		NC	20
Trifluralin	<0.098		<0.098		ug/L		NC	20

  

Surrogate	DU	DU	Limits
	%Recovery	Qualifier	
2-Nitro-m-xylene	95		70 - 130
Perylene-d12	91		70 - 130
Triphenylphosphate	114		70 - 130

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

**Lab Sample ID: MB 570-729809/1-A**  
**Matrix: Water**  
**Analysis Batch: 732019**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 729809**

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	04/25/26 08:24	04/30/26 08:45	1

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# QC Sample Results

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

Job ID: 380-209775-1  
SDG: Weekly: Ka'amilo Wells P1

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

**Lab Sample ID: MB 570-729809/1-A**  
**Matrix: Water**  
**Analysis Batch: 732019**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 729809**

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2,4,6-Tribromophenol (Surr)	42		33 - 139	04/25/26 08:24	04/30/26 08:45	1
2-Fluorobiphenyl (Surr)	70		33 - 126	04/25/26 08:24	04/30/26 08:45	1
2-Fluorophenol (Surr)	44		12 - 120	04/25/26 08:24	04/30/26 08:45	1
Nitrobenzene-d5 (Surr)	67		36 - 120	04/25/26 08:24	04/30/26 08:45	1
Phenol-d6 (Surr)	26		10 - 120	04/25/26 08:24	04/30/26 08:45	1
p-Terphenyl-d14 (Surr)	65		47 - 131	04/25/26 08:24	04/30/26 08:45	1

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

**Lab Sample ID: MB 570-729809/1-A**  
**Matrix: Water**  
**Analysis Batch: 729996**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 729809**

Analyte	MB MB		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
1-Methylnaphthalene	<0.20		0.20	ug/L		04/25/26 08:24	04/26/26 06:16	1
2-Methylnaphthalene	<0.20		0.20	ug/L		04/25/26 08:24	04/26/26 06:16	1
Acenaphthene	<0.20		0.20	ug/L		04/25/26 08:24	04/26/26 06:16	1
Acenaphthylene	<0.20		0.20	ug/L		04/25/26 08:24	04/26/26 06:16	1
Anthracene	<0.20		0.20	ug/L		04/25/26 08:24	04/26/26 06:16	1
Benzo[a]anthracene	<0.20		0.20	ug/L		04/25/26 08:24	04/26/26 06:16	1
Benzo[a]pyrene	<0.20		0.20	ug/L		04/25/26 08:24	04/26/26 06:16	1
Benzo[b]fluoranthene	<0.20		0.20	ug/L		04/25/26 08:24	04/26/26 06:16	1
Benzo[g,h,i]perylene	<0.20		0.20	ug/L		04/25/26 08:24	04/26/26 06:16	1
Benzo[k]fluoranthene	<0.20		0.20	ug/L		04/25/26 08:24	04/26/26 06:16	1
Chrysene	<0.20		0.20	ug/L		04/25/26 08:24	04/26/26 06:16	1
Dibenz(a,h)anthracene	<0.20		0.20	ug/L		04/25/26 08:24	04/26/26 06:16	1
Fluoranthene	<0.20		0.20	ug/L		04/25/26 08:24	04/26/26 06:16	1
Fluorene	<0.20		0.20	ug/L		04/25/26 08:24	04/26/26 06:16	1
Indeno[1,2,3-cd]pyrene	<0.20		0.20	ug/L		04/25/26 08:24	04/26/26 06:16	1
Naphthalene	<0.20		0.20	ug/L		04/25/26 08:24	04/26/26 06:16	1
Phenanthrene	<0.20		0.20	ug/L		04/25/26 08:24	04/26/26 06:16	1
Pyrene	<0.20		0.20	ug/L		04/25/26 08:24	04/26/26 06:16	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2,4,6-Tribromophenol (Surr)	93		28 - 127	04/25/26 08:24	04/26/26 06:16	1
2-Fluorobiphenyl (Surr)	82		31 - 120	04/25/26 08:24	04/26/26 06:16	1
2-Fluorophenol (Surr)	58		17 - 120	04/25/26 08:24	04/26/26 06:16	1
Nitrobenzene-d5 (Surr)	90		27 - 120	04/25/26 08:24	04/26/26 06:16	1
Phenol-d6 (Surr)	35		10 - 120	04/25/26 08:24	04/26/26 06:16	1
p-Terphenyl-d14 (Surr)	77		45 - 120	04/25/26 08:24	04/26/26 06:16	1

**Lab Sample ID: LCS 570-729809/2-A**  
**Matrix: Water**  
**Analysis Batch: 729996**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 729809**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2-Methylnaphthalene	20.0	12.5		ug/L		62	43 - 120

# QC Sample Results

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

Job ID: 380-209775-1  
SDG: Weekly: Ka'amilo Wells P1

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

**Lab Sample ID: LCS 570-729809/2-A**

**Matrix: Water**

**Analysis Batch: 729996**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 729809**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	20.0	15.4		ug/L		77	60 - 132
Acenaphthylene	20.0	15.4		ug/L		77	54 - 126
Anthracene	20.0	15.1		ug/L		76	43 - 120
Benzo[a]anthracene	20.0	14.8		ug/L		74	42 - 133
Benzo[a]pyrene	20.0	16.8		ug/L		84	32 - 148
Benzo[b]fluoranthene	20.0	16.2		ug/L		81	42 - 140
Benzo[g,h,i]perylene	20.0	15.8		ug/L		79	1 - 195
Benzo[k]fluoranthene	20.0	15.8		ug/L		79	25 - 146
Chrysene	20.0	15.3		ug/L		76	44 - 140
Dibenz(a,h)anthracene	20.0	16.3		ug/L		81	1 - 200
Fluoranthene	20.0	15.4		ug/L		77	43 - 121
Fluorene	20.0	15.5		ug/L		77	70 - 120
Indeno[1,2,3-cd]pyrene	20.0	16.1		ug/L		81	1 - 151
Naphthalene	20.0	13.2		ug/L		66	36 - 120
Phenanthrene	20.0	15.5		ug/L		77	65 - 120
Pyrene	20.0	15.2		ug/L		76	70 - 120

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	72		28 - 127
2-Fluorobiphenyl (Surr)	73		31 - 120
2-Fluorophenol (Surr)	54		17 - 120
Nitrobenzene-d5 (Surr)	66		27 - 120
Phenol-d6 (Surr)	34		10 - 120
p-Terphenyl-d14 (Surr)	71		45 - 120

**Lab Sample ID: LCSD 570-729809/3-A**

**Matrix: Water**

**Analysis Batch: 729996**

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

**Prep Type: Total/NA**

**Prep Batch: 729809**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	
								RPD	Limit
1-Methylnaphthalene	20.0	13.3		ug/L		67	47 - 120	4	20
2-Methylnaphthalene	20.0	13.5		ug/L		67	43 - 120	8	20
Acenaphthene	20.0	16.0		ug/L		80	60 - 132	4	29
Acenaphthylene	20.0	16.1		ug/L		80	54 - 126	5	45
Anthracene	20.0	16.2		ug/L		81	43 - 120	7	40
Benzo[a]anthracene	20.0	16.0		ug/L		80	42 - 133	8	32
Benzo[a]pyrene	20.0	18.1		ug/L		90	32 - 148	7	43
Benzo[b]fluoranthene	20.0	17.7		ug/L		89	42 - 140	9	43
Benzo[g,h,i]perylene	20.0	16.2		ug/L		81	1 - 195	2	61
Benzo[k]fluoranthene	20.0	16.8		ug/L		84	25 - 146	6	38
Chrysene	20.0	15.9		ug/L		80	44 - 140	4	53
Dibenz(a,h)anthracene	20.0	16.9		ug/L		85	1 - 200	4	75
Fluoranthene	20.0	16.7		ug/L		84	43 - 121	8	40
Fluorene	20.0	16.6		ug/L		83	70 - 120	7	23
Indeno[1,2,3-cd]pyrene	20.0	16.6		ug/L		83	1 - 151	3	60
Naphthalene	20.0	13.5		ug/L		68	36 - 120	3	39
Phenanthrene	20.0	16.3		ug/L		81	65 - 120	5	24
Pyrene	20.0	15.9		ug/L		80	70 - 120	5	30

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# QC Sample Results

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

Job ID: 380-209775-1  
SDG: Weekly: Ka'amilo Wells P1

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

**Lab Sample ID: LCSD 570-729809/3-A**

**Matrix: Water**

**Analysis Batch: 729996**

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

**Prep Type: Total/NA**

**Prep Batch: 729809**

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	78		28 - 127
2-Fluorobiphenyl (Surr)	76		31 - 120
2-Fluorophenol (Surr)	58		17 - 120
Nitrobenzene-d5 (Surr)	68		27 - 120
Phenol d6 (Surr)	37		10 - 120
p-Terphenyl-d14 (Surr)	73		45 - 120

**Lab Sample ID: 380-209810-A-2-A MS**

**Matrix: Water**

**Analysis Batch: 729996**

**Client Sample ID: Matrix Spike**

**Prep Type: Total/NA**

**Prep Batch: 729809**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec
	Result	Qualifier	Added	Result	Qualifier				
1-Methylnaphthalene	<0.21		20.6	13.1		ug/L		64	36 - 120
2-Methylnaphthalene	<0.21		20.6	12.7		ug/L		62	32 - 124
Acenaphthene	<0.21		20.6	13.8		ug/L		67	47 - 145
Acenaphthylene	<0.21		20.6	12.9		ug/L		62	33 - 145
Anthracene	<0.21		20.6	13.2		ug/L		64	27 - 133
Benzo[a]anthracene	<0.21		20.6	11.8		ug/L		57	33 - 143
Benzo[a]pyrene	<0.21		20.6	12.9		ug/L		63	17 - 163
Benzo[b]fluoranthene	<0.21		20.6	13.0		ug/L		63	24 - 159
Benzo[g,h,i]perylene	<0.21		20.6	12.3		ug/L		60	1 - 219
Benzo[k]fluoranthene	<0.21		20.6	12.8		ug/L		62	11 - 162
Chrysene	<0.21		20.6	12.3		ug/L		60	17 - 168
Dibenz(a,h)anthracene	<0.21		20.6	12.9		ug/L		62	1 - 227
Fluoranthene	<0.21		20.6	13.7		ug/L		67	26 - 137
Fluorene	<0.21		20.6	13.9		ug/L		67	59 - 121
Indeno[1,2,3-cd]pyrene	<0.21		20.6	12.8		ug/L		62	1 - 171
Naphthalene	0.32		20.6	13.1		ug/L		62	21 - 133
Phenanthrene	<0.21		20.6	13.9		ug/L		68	54 - 120
Pyrene	<0.21	F1	20.6	10.4	F1	ug/L		51	52 - 120

Surrogate	MS		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	71		28 - 127
2-Fluorobiphenyl (Surr)	62		31 - 120
2-Fluorophenol (Surr)	42		17 - 120
Nitrobenzene-d5 (Surr)	63		27 - 120
Phenol-d6 (Surr)	28		10 - 120
p-Terphenyl-d14 (Surr)	46		45 - 120

**Lab Sample ID: 380-209810-A-2-B MSD**

**Matrix: Water**

**Analysis Batch: 729996**

**Client Sample ID: Matrix Spike Duplicate**

**Prep Type: Total/NA**

**Prep Batch: 729809**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
1-Methylnaphthalene	<0.21		20.6	16.1		ug/L		78	36 - 120	20	30
2-Methylnaphthalene	<0.21		20.6	15.4		ug/L		75	32 - 124	19	30
Acenaphthene	<0.21		20.6	16.2		ug/L		78	47 - 145	16	48
Acenaphthylene	<0.21		20.6	15.1		ug/L		73	33 - 145	16	74

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# QC Sample Results

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

Job ID: 380-209775-1  
SDG: Weekly: Ka'amilo Wells P1

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

Lab Sample ID: 380-209810-A-2-B MSD

Matrix: Water

Analysis Batch: 729996

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 729809

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		
Anthracene	<0.21		20.6	15.4		ug/L		74	27 - 133	15	66
Benzo[a]anthracene	<0.21		20.6	14.3		ug/L		69	33 - 143	19	53
Benzo[a]pyrene	<0.21		20.6	14.9		ug/L		72	17 - 163	15	72
Benzo[b]fluoranthene	<0.21		20.6	15.2		ug/L		73	24 - 159	16	71
Benzo[g,h,i]perylene	<0.21		20.6	14.5		ug/L		70	1 - 219	16	97
Benzo[k]fluoranthene	<0.21		20.6	14.8		ug/L		72	11 - 162	15	63
Chrysene	<0.21		20.6	14.9		ug/L		72	17 - 168	19	87
Dibenz(a,h)anthracene	<0.21		20.6	14.9		ug/L		72	1 - 227	15	126
Fluoranthene	<0.21		20.6	16.0		ug/L		78	26 - 137	16	66
Fluorene	<0.21		20.6	16.9		ug/L		82	59 - 121	19	38
Indeno[1,2,3-cd]pyrene	<0.21		20.6	14.9		ug/L		72	1 - 171	15	99
Naphthalene	0.32		20.6	15.6		ug/L		74	21 - 133	17	65
Phenanthrene	<0.21		20.6	16.0		ug/L		78	54 - 120	14	39
Pyrene	<0.21	F1	20.6	13.0		ug/L		63	52 - 120	22	49

  

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	83		28 - 127
2-Fluorobiphenyl (Surr)	72		31 - 120
2-Fluorophenol (Surr)	47		17 - 120
Nitrobenzene-d5 (Surr)	71		27 - 120
Phenol-d6 (Surr)	32		10 - 120
p-Terphenyl-d14 (Surr)	60		45 - 120

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

Lab Sample ID: MB 570-732721/6

Matrix: Water

Analysis Batch: 732721

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			05/01/26 12:30	1

  

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	92		38 - 134		05/01/26 12:30	1

Lab Sample ID: LCS 570-732721/3

Matrix: Water

Analysis Batch: 732721

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec
		Result	Qualifier				Limits
Gasoline Range Organics (C4-C13)	400	403		ug/L		101	78 - 120

  

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	86		38 - 134

# QC Sample Results

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

Job ID: 380-209775-1  
SDG: Weekly: Ka'amilo Wells P1

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

**Lab Sample ID: LCSD 570-732721/4**  
**Matrix: Water**  
**Analysis Batch: 732721**

**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	421		ug/L		105	78 - 120	4	10
<b>Surrogate</b>		<b>LCSD %Recovery</b>	<b>LCSD Qualifier</b>				<b>Limits</b>		
4-Bromofluorobenzene (Surr)		77					38 - 134		

**Lab Sample ID: MRL 570-732721/5**  
**Matrix: Water**  
**Analysis Batch: 732721**

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (C4-C13)	10.0	12.9		ug/L		129	50 - 150		
<b>Surrogate</b>		<b>MRL %Recovery</b>	<b>MRL Qualifier</b>				<b>Limits</b>		
4-Bromofluorobenzene (Surr)		88					38 - 134		

**Lab Sample ID: 380-209764-B-1 MS**  
**Matrix: Water**  
**Analysis Batch: 732721**

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (C4-C13)	<10		400	424		ug/L		106	68 - 122		
<b>Surrogate</b>		<b>MS %Recovery</b>		<b>MS Qualifier</b>					<b>Limits</b>		
4-Bromofluorobenzene (Surr)		88							38 - 134		

**Lab Sample ID: 380-209764-B-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 732721**

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (C4-C13)	<10		400	428		ug/L		107	68 - 122	1	18
<b>Surrogate</b>		<b>MSD %Recovery</b>		<b>MSD Qualifier</b>					<b>Limits</b>		
4-Bromofluorobenzene (Surr)		93							38 - 134		

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

**Lab Sample ID: MB 570-728927/1-A**  
**Matrix: Water**  
**Analysis Batch: 732313**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 728927**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	<25		25	ug/L		04/23/26 13:58	04/30/26 22:36	1
Motor Oil Range Organics [C24-C36]	<25		25	ug/L		04/23/26 13:58	04/30/26 22:36	1
C8-C18	<25		25	ug/L		04/23/26 13:58	04/30/26 22:36	1

Eurofins Pomona

# QC Sample Results

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

Job ID: 380-209775-1  
SDG: Weekly: Ka'amilo Wells P1

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

	<i>MB</i>	<i>MB</i>					
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>	
<i>n-Octacosane (Surr)</i>	95		60 - 130	04/23/26 13:58	04/30/26 22:36	1	

**Lab Sample ID: LCS 570-728927/2-A**  
**Matrix: Water**  
**Analysis Batch: 732313**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 728927**

<i>Analyte</i>	<i>Spike Added</i>	<i>LCS Result</i>	<i>LCS Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec Limits</i>		
C10-C28	1600	1690		ug/L		106	56 - 127		

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>n-Octacosane (Surr)</i>	128		60 - 130

**Lab Sample ID: LCSD 570-728927/3-A**  
**Matrix: Water**  
**Analysis Batch: 732313**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 728927**

<i>Analyte</i>	<i>Spike Added</i>	<i>LCSD Result</i>	<i>LCSD Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec Limits</i>	<i>RPD</i>	<i>RPD Limit</i>	
C10-C28	1600	1540		ug/L		96	56 - 127	9	23	

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>n-Octacosane (Surr)</i>	102		60 - 130

**Lab Sample ID: MRL 570-728927/4-A**  
**Matrix: Water**  
**Analysis Batch: 732313**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 728927**

<i>Analyte</i>	<i>Spike Added</i>	<i>MRL Result</i>	<i>MRL Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec Limits</i>		
C10-C28	0.0200	0.0312	^3+	mg/L		156	50 - 150		

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

**Lab Sample ID: 380-209764-C-1-A MS**  
**Matrix: Water**  
**Analysis Batch: 732313**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**  
**Prep Batch: 728927**

<i>Analyte</i>	<i>Sample Result</i>	<i>Sample Qualifier</i>	<i>Spike Added</i>	<i>MS Result</i>	<i>MS Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec Limits</i>
C10-C28	<26	^3+	1700	1540		ug/L		91	70 - 130

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>n-Octacosane (Surr)</i>	116		60 - 130

**Lab Sample ID: 380-209764-C-1-B MSD**  
**Matrix: Water**  
**Analysis Batch: 732313**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 728927**

<i>Analyte</i>	<i>Sample Result</i>	<i>Sample Qualifier</i>	<i>Spike Added</i>	<i>MSD Result</i>	<i>MSD Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec Limits</i>	<i>RPD</i>	<i>RPD Limit</i>
C10-C28	<26	^3+	1680	1540		ug/L		91	70 - 130	1	20

# QC Sample Results

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

Job ID: 380-209775-1  
SDG: Weekly: Ka'amilo Wells P1

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

Lab Sample ID: 380-209764-C-1-B MSD

Matrix: Water

Analysis Batch: 732313

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 728927

<i>Surrogate</i>	<i>MSD</i>	<i>MSD</i>	<i>Limits</i>
	<i>%Recovery</i>	<i>Qualifier</i>	
<i>n-Octacosane (Surr)</i>	102		60 - 130

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# QC Association Summary

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

Job ID: 380-209775-1  
 SDG: Weekly: Ka'amilo Wells P1

## GC/MS Semi VOA

### Prep Batch: 223780

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-209775-1	Ka'amilo Wells P1 (331-031-WL008)	Total/NA	Water	525.2	
MB 380-223780/21-A	Method Blank	Total/NA	Water	525.2	
LCS 380-223780/23-A	Lab Control Sample	Total/NA	Water	525.2	
MRL 380-223780/22-A	Lab Control Sample	Total/NA	Water	525.2	
380-209769-I-1-A MS	Matrix Spike	Total/NA	Water	525.2	
380-209764-I-1-A DU	Duplicate	Total/NA	Water	525.2	

### Analysis Batch: 224002

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-209775-1	Ka'amilo Wells P1 (331-031-WL008)	Total/NA	Water	525.2	223780
MB 380-223780/21-A	Method Blank	Total/NA	Water	525.2	223780
LCS 380-223780/23-A	Lab Control Sample	Total/NA	Water	525.2	223780
MRL 380-223780/22-A	Lab Control Sample	Total/NA	Water	525.2	223780
380-209769-I-1-A MS	Matrix Spike	Total/NA	Water	525.2	223780
380-209764-I-1-A DU	Duplicate	Total/NA	Water	525.2	223780

### Prep Batch: 729809

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-209775-1	Ka'amilo Wells P1 (331-031-WL008)	Total/NA	Water	625.1	
MB 570-729809/1-A	Method Blank	Total/NA	Water	625.1	
LCS 570-729809/2-A	Lab Control Sample	Total/NA	Water	625.1	
LCSD 570-729809/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	
380-209810-A-2-A MS	Matrix Spike	Total/NA	Water	625.1	
380-209810-A-2-B MSD	Matrix Spike Duplicate	Total/NA	Water	625.1	

### Analysis Batch: 729996

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-209775-1	Ka'amilo Wells P1 (331-031-WL008)	Total/NA	Water	625.1 SIM	729809
MB 570-729809/1-A	Method Blank	Total/NA	Water	625.1 SIM	729809
LCS 570-729809/2-A	Lab Control Sample	Total/NA	Water	625.1 SIM	729809
LCSD 570-729809/3-A	Lab Control Sample Dup	Total/NA	Water	625.1 SIM	729809
380-209810-A-2-A MS	Matrix Spike	Total/NA	Water	625.1 SIM	729809
380-209810-A-2-B MSD	Matrix Spike Duplicate	Total/NA	Water	625.1 SIM	729809

### Analysis Batch: 732019

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-209775-1	Ka'amilo Wells P1 (331-031-WL008)	Total/NA	Water	625.1	729809
MB 570-729809/1-A	Method Blank	Total/NA	Water	625.1	729809

## GC VOA

### Analysis Batch: 732721

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-209775-1	Ka'amilo Wells P1 (331-031-WL008)	Total/NA	Water	8015B GRO LL	
380-209775-2	TB: Ka'amilo Wells P1 (331-031-WL008)	Total/NA	Water	8015B GRO LL	
MB 570-732721/6	Method Blank	Total/NA	Water	8015B GRO LL	
LCS 570-732721/3	Lab Control Sample	Total/NA	Water	8015B GRO LL	
LCSD 570-732721/4	Lab Control Sample Dup	Total/NA	Water	8015B GRO LL	
MRL 570-732721/5	Lab Control Sample	Total/NA	Water	8015B GRO LL	
380-209764-B-1 MS	Matrix Spike	Total/NA	Water	8015B GRO LL	
380-209764-B-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8015B GRO LL	

# QC Association Summary

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

Job ID: 380-209775-1  
 SDG: Weekly: Ka'amilo Wells P1

## GC Semi VOA

### Prep Batch: 728927

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-209775-1	Ka'amilo Wells P1 (331-031-WL008)	Total/NA	Water	3510C	
MB 570-728927/1-A	Method Blank	Total/NA	Water	3510C	
LCS 570-728927/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 570-728927/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MRL 570-728927/4-A	Lab Control Sample	Total/NA	Water	3510C	
380-209764-C-1-A MS	Matrix Spike	Total/NA	Water	3510C	
380-209764-C-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	3510C	

### Analysis Batch: 732313

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-209775-1	Ka'amilo Wells P1 (331-031-WL008)	Total/NA	Water	8015B	728927
MB 570-728927/1-A	Method Blank	Total/NA	Water	8015B	728927
LCS 570-728927/2-A	Lab Control Sample	Total/NA	Water	8015B	728927
LCSD 570-728927/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	728927
MRL 570-728927/4-A	Lab Control Sample	Total/NA	Water	8015B	728927
380-209764-C-1-A MS	Matrix Spike	Total/NA	Water	8015B	728927
380-209764-C-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	8015B	728927

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## Lab Chronicle

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

Job ID: 380-209775-1  
SDG: Weekly: Ka'amilo Wells P1

**Client Sample ID: Ka'amilo Wells P1 (331-031-WL008)**

**Lab Sample ID: 380-209775-1**

Date Collected: 04/20/26 12:34

Matrix: Water

Date Received: 04/22/26 10:22

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	525.2			223780	L9UA	EA POM	04/29/26 09:51
Total/NA	Analysis	525.2		1	224002	Q8LA	EA POM	04/30/26 12:37
Total/NA	Prep	625.1			729809	KLZQ	EET CAL 4	04/25/26 08:24
Total/NA	Analysis	625.1		1	732019	PQS1	EET CAL 4	04/30/26 09:09
Total/NA	Prep	625.1			729809	KLZQ	EET CAL 4	04/25/26 08:24
Total/NA	Analysis	625.1 SIM		1	729996	PQS1	EET CAL 4	04/26/26 08:27
Total/NA	Analysis	8015B GRO LL		1	732721	A9VE	EET CAL 4	05/01/26 22:13
Total/NA	Prep	3510C			728927	EP2G	EET CAL 4	04/24/26 09:13
Total/NA	Analysis	8015B		1	732313	NR	EET CAL 4	05/01/26 03:59

**Client Sample ID: TB: Ka'amilo Wells P1 (331-031-WL008)**

**Lab Sample ID: 380-209775-2**

Date Collected: 04/20/26 12:34

Matrix: Water

Date Received: 04/22/26 10:22

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015B GRO LL		1	732721	A9VE	EET CAL 4	05/01/26 20:16

**Laboratory References:**

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

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

# Accreditation/Certification Summary

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

Job ID: 380-209775-1  
 SDG: Weekly: Ka'amilo Wells P1

## Laboratory: Eurofins Pomona

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

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

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

Analysis Method	Prep Method	Matrix	Analyte
525.2	525.2	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
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
A2LA	ISO/IEC 17025	7296.01	11-30-26
Alaska (UST)	State	25-005	03-02-27
Arizona	State	AZ0830	11-17-26
California	Los Angeles County Sanitation Districts	9257304	07-31-26
California	SCAQMD LAP	17LA0919	11-30-26

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

# Accreditation/Certification Summary

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

Job ID: 380-209775-1  
SDG: Weekly: Ka'amilo Wells P1

## 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	02-02-27
USDA	US Federal Programs	525-23-159-97150	06-08-26
Utah	NELAP	CA00111	02-28-27
Washington	State	C916	10-12-26

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# Method Summary

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

Job ID: 380-209775-1  
SDG: Weekly: Ka'amilo Wells P1

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

#### Protocol References:

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

EPA = US Environmental Protection Agency

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

#### Laboratory References:

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

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

# Sample Summary

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

Job ID: 380-209775-1  
SDG: Weekly: Ka'amilo Wells P1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	PWSID Number
380-209775-1	Ka'amilo Wells P1 (331-031-WL008)	Water	04/20/26 12:34	04/22/26 10:22	HI0000331
380-209775-2	TB: Ka'amilo Wells P1 (331-031-WL008)	Water	04/20/26 12:34	04/22/26 10:22	

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## Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-209775-1  
SDG Number: Weekly: Ka'amilo Wells P1

**Login Number: 209775**

**List Number: 1**

**Creator: Ngo, Theodore**

**List Source: Eurofins Pomona**

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



## Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-209775-1  
SDG Number: Weekly: Ka'amilo Wells P1

**Login Number: 209775**  
**List Number: 2**  
**Creator: Khana, Piyush**

**List Source: Eurofins Calscience**  
**List Creation: 04/23/26 02:41 PM**

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.6
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	fgf5
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	