

# ANALYTICAL REPORT

## PREPARED FOR

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## JOB DESCRIPTION

RED-HILL  
Quarterly: Ka'amilo Wells P2

## JOB NUMBER

380-177798-1

# 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: 380-177798-1  
SDG: Quarterly: Ka'amilo Wells P2

## Qualifiers

### GC/MS VOA

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

### GC/MS 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/MS Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*1	LCS/LCSD RPD exceeds control limits.
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
^3+	Reporting Limit Check Standard is outside acceptance limits, high biased
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
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

### GC Semi VOA

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

### HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

### Metals

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

### General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
HF	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)

# Definitions/Glossary

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

Job ID: 380-177798-1  
SDG: Quarterly: Ka'amilo Wells P2

## Glossary (Continued)

**Abbreviation**      **These commonly used abbreviations may or may not be present in this report.**

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: 380-177798-1

**Job ID: 380-177798-1**

**Eurofins Eaton Analytical Pomona**

## Job Narrative 380-177798-1

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 10/17/2025 9:25 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 3.9°C.

### GC/MS VOA

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

### GC/MS Semi VOA

Method 625.1\_SIM: The laboratory control sample and/or the laboratory control sample duplicate (LCS/LCSD) for preparation batch 570-643951 and analytical batch 570-649432 recovered outside control limits for the following analyte(s): Aniline and Benzidine. Aniline and Benzidine have been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed.

Method 625.1\_SIM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 570-643951 and analytical batch 570-649432 recovered outside control limits for the following analytes: Aniline and Benzidine.

Method 625.1\_SIM: The matrix spike/matrix spike duplicate (MS/MSD) for preparation batch 570-643951 and analytical batch 570-649432 exceeded control limits for the following analyte(s): Aniline and Benzidine, Note that this analyte is a known poor performer when analyzed using this method.

Method 625.1\_SIM: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 570-643951 and analytical batch 570-649432 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.

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

### Gasoline Range Organics

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

### Diesel Range Organics

Method 8015B\_DRO\_LL\_CS: The method reporting limit check (MRL) for preparation batch 570-644924 and analytical batch 570-648248 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.

### GC Semi VOA

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

### Hydrocarbons

Method 8015B\_DAI: The method reporting limit check (MRL) for analytical batch 570-643985 recovered outside control limits for the following analytes: Ethanol. This analyte was biased high in the MRL and was not detected in the associated samples; therefore, the data have been reported. Ka'amilo Wells P2 (380-177798-1).

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# Case Narrative

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

Job ID: 380-177798-1

**Job ID: 380-177798-1 (Continued)**

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

### **Pesticides/PCBs**

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

### **HPLC/IC**

Method 300\_OF\_48H\_PREC: The following sample was diluted for Nitrite as N to prevent detector saturation due to high conductivity: Ka'amilo Wells P2 (380-177798-1). Elevated reporting limits (RLs) are provided.

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

### **Metals**

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

### **General Chemistry**

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



# Detection Summary

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

Job ID: 380-177798-1  
 SDG: Quarterly: Ka'amilo Wells P2

**Client Sample ID: Ka'amilo Wells P2**

**Lab Sample ID: 380-177798-1**

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Dieldrin	0.069		0.0097	ug/L	1		525.2	Total/NA
Heptachlor epoxide (isomer B)	0.018		0.0097	ug/L	1		525.2	Total/NA
Chlordane (n.o.s.)	0.37		0.10	ug/L	1		505	Total/NA
Bromide	440		25	ug/L	5		300.0	Total/NA
Chloride	120		2.5	mg/L	5		300.0	Total/NA
Nitrate as N	1.9		0.10	mg/L	2		300.0	Total/NA
Sulfate	28		0.50	mg/L	2		300.0	Total/NA
Calcium	21		0.10	mg/L	1		200.7 Rev 4.4	Total/NA
Magnesium	21		0.10	mg/L	1		200.7 Rev 4.4	Total/NA
Potassium	2.7		0.10	mg/L	1		200.7 Rev 4.4	Total/NA
Sodium	57		0.10	mg/L	1		200.7 Rev 4.4	Total/NA
Chromium	4.6		0.90	ug/L	1		200.8	Total/NA
Copper	2.6		1.0	ug/L	1		200.8	Total/NA
Nickel	1.6		1.0	ug/L	1		200.8	Total/NA
Selenium	4.0		2.0	ug/L	1		200.8	Total/NA
Zinc	14		5.0	ug/L	1		200.8	Total/NA
Alkalinity	75		4.0	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	75		4.0	mg/L	1		SM 2320B	Total/NA
Specific Conductance	600		2.0	umhos/cm	1		SM 2510B	Total/NA
Total Dissolved Solids	370		20	mg/L	1		SM 2540C	Total/NA
Fluoride	0.056		0.050	mg/L	1		SM 4500 F C	Total/NA
pH	7.8	HF		SU	1		SM 4500 H+ B	Total/NA

**Client Sample ID: TB: Ka'amilo Wells P2**

**Lab Sample ID: 380-177798-2**

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: 380-177798-1  
SDG: Quarterly: Ka'amilo Wells P2

**Client Sample ID: Ka'amilo Wells P2**

**Lab Sample ID: 380-177798-1**

Date Collected: 10/16/25 10:56

Matrix: Water

Date Received: 10/17/25 09:25

**Method: EPA-DW 524.2 - Total Trihalomethanes**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Trihalomethanes, Total	<0.50		0.50	ug/L			10/21/25 17:23	1

**Method: EPA-DW 524.2 - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.50		0.50	ug/L			10/21/25 17:23	1
1,1,1-Trichloroethane	<0.50		0.50	ug/L			10/21/25 17:23	1
1,1,2,2-Tetrachloroethane	<0.50		0.50	ug/L			10/21/25 17:23	1
1,1,2-Trichloroethane	<0.50		0.50	ug/L			10/21/25 17:23	1
Tertiary Butyl Alcohol (TBA)	<2.0		2.0	ug/L			10/21/25 17:23	1
1,1-Dichloroethylene	<0.50		0.50	ug/L			10/21/25 17:23	1
1,1-Dichloroethane	<0.50		0.50	ug/L			10/21/25 17:23	1
1,1-Dichloropropene	<0.50		0.50	ug/L			10/21/25 17:23	1
1,2,3-Trichlorobenzene	<0.50		0.50	ug/L			10/21/25 17:23	1
1,2,3-Trichloropropane	<0.50		0.50	ug/L			10/21/25 17:23	1
1,2,4-Trichlorobenzene	<0.50		0.50	ug/L			10/21/25 17:23	1
1,2,4-Trimethylbenzene	<0.50		0.50	ug/L			10/21/25 17:23	1
1,2-Dichloroethane	<0.50		0.50	ug/L			10/21/25 17:23	1
1,2-Dichloropropane	<0.50		0.50	ug/L			10/21/25 17:23	1
1,3,5-Trimethylbenzene	<0.50		0.50	ug/L			10/21/25 17:23	1
1,3-Dichloropropane	<0.50		0.50	ug/L			10/21/25 17:23	1
1,3-Dichloropropene, Total	<0.50		0.50	ug/L			10/21/25 17:23	1
2,2-Dichloropropane	<0.50		0.50	ug/L			10/21/25 17:23	1
2-Butanone (MEK)	<5.0		5.0	ug/L			10/21/25 17:23	1
4-Methyl-2-pentanone (MIBK)	<5.0		5.0	ug/L			10/21/25 17:23	1
Acetone	<500		500	ug/L			10/21/25 17:23	1
Benzene	<0.50		0.50	ug/L			10/21/25 17:23	1
Bromobenzene	<0.50		0.50	ug/L			10/21/25 17:23	1
Bromochloromethane	<0.50		0.50	ug/L			10/21/25 17:23	1
Bromodichloromethane	<0.50		0.50	ug/L			10/21/25 17:23	1
Bromoethane	<0.50		0.50	ug/L			10/21/25 17:23	1
Bromoform	<0.50		0.50	ug/L			10/21/25 17:23	1
Bromomethane (Methyl Bromide)	<0.50		0.50	ug/L			10/21/25 17:23	1
Carbon disulfide	<0.50		0.50	ug/L			10/21/25 17:23	1
Carbon tetrachloride	<0.50		0.50	ug/L			10/21/25 17:23	1
Chlorobenzene	<0.50		0.50	ug/L			10/21/25 17:23	1
Chlorodibromomethane	<0.50		0.50	ug/L			10/21/25 17:23	1
Chloroethane	<0.50		0.50	ug/L			10/21/25 17:23	1
Chloroform (Trichloromethane)	<0.50		0.50	ug/L			10/21/25 17:23	1
Chloromethane (methyl chloride)	<0.50		0.50	ug/L			10/21/25 17:23	1
cis-1,2-Dichloroethylene	<0.50		0.50	ug/L			10/21/25 17:23	1
cis-1,3-Dichloropropene	<0.50		0.50	ug/L			10/21/25 17:23	1
Dibromomethane	<0.50		0.50	ug/L			10/21/25 17:23	1
Dichlorodifluoromethane	<0.50		0.50	ug/L			10/21/25 17:23	1
Dichloromethane	<0.50		0.50	ug/L			10/21/25 17:23	1
Diisopropyl ether	<3.0		3.0	ug/L			10/21/25 17:23	1
Ethylbenzene	<0.50		0.50	ug/L			10/21/25 17:23	1
Hexachlorobutadiene	<0.50		0.50	ug/L			10/21/25 17:23	1
Isopropylbenzene	<0.50		0.50	ug/L			10/21/25 17:23	1
m,p-Xylenes	<0.50		0.50	ug/L			10/21/25 17:23	1
m-Dichlorobenzene (1,3-DCB)	<0.50		0.50	ug/L			10/21/25 17:23	1

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# Client Sample Results

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

Job ID: 380-177798-1  
SDG: Quarterly: Ka'amilo Wells P2

**Client Sample ID: Ka'amilo Wells P2**

**Lab Sample ID: 380-177798-1**

Date Collected: 10/16/25 10:56

Matrix: Water

Date Received: 10/17/25 09:25

**Method: EPA-DW 524.2 - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl-tert-butyl Ether (MTBE)	<0.50		0.50	ug/L			10/21/25 17:23	1
Naphthalene	<0.50		0.50	ug/L			10/21/25 17:23	1
n-Butylbenzene	<0.50		0.50	ug/L			10/21/25 17:23	1
N-Propylbenzene	<0.50		0.50	ug/L			10/21/25 17:23	1
o-Chlorotoluene	<0.50		0.50	ug/L			10/21/25 17:23	1
o-Dichlorobenzene (1,2-DCB)	<0.50		0.50	ug/L			10/21/25 17:23	1
o-Xylene	<0.50		0.50	ug/L			10/21/25 17:23	1
p-Chlorotoluene	<0.50		0.50	ug/L			10/21/25 17:23	1
p-Dichlorobenzene (1,4-DCB)	<0.50		0.50	ug/L			10/21/25 17:23	1
p-Isopropyltoluene	<0.50		0.50	ug/L			10/21/25 17:23	1
sec-Butylbenzene	<0.50		0.50	ug/L			10/21/25 17:23	1
Styrene	<0.50		0.50	ug/L			10/21/25 17:23	1
Tert-amyl methyl ether	<3.0		3.0	ug/L			10/21/25 17:23	1
Tert-butyl ethyl ether	<3.0		3.0	ug/L			10/21/25 17:23	1
tert-Butylbenzene	<0.50		0.50	ug/L			10/21/25 17:23	1
Tetrachloroethene (PCE)	<0.50		0.50	ug/L			10/21/25 17:23	1
Toluene	<0.50		0.50	ug/L			10/21/25 17:23	1
trans-1,2-Dichloroethylene	<0.50		0.50	ug/L			10/21/25 17:23	1
trans-1,3-Dichloropropene	<0.50		0.50	ug/L			10/21/25 17:23	1
Trichloroethylene (TCE)	<0.50		0.50	ug/L			10/21/25 17:23	1
Trichlorofluoromethane (Freon 11)	<0.50		0.50	ug/L			10/21/25 17:23	1
Trichlorotrifluoroethane	<0.50		0.50	ug/L			10/21/25 17:23	1
Vinyl Chloride (VC)	<0.30		0.30	ug/L			10/21/25 17:23	1
Xylenes, Total	<0.50		0.50	ug/L			10/21/25 17:23	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 17:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		70 - 130		10/21/25 17:23	1
4-Bromofluorobenzene (Surr)	101		70 - 130		10/21/25 17:23	1
Toluene-d8 (Surr)	93		70 - 130		10/21/25 17:23	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 130		10/21/25 17:23	1
4-Bromofluorobenzene (Surr)	101		70 - 130		10/21/25 17:23	1
Toluene-d8 (Surr)	93		70 - 130		10/21/25 17:23	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
2,4'-DDD	<0.097		0.097	ug/L		10/22/25 09:06	10/23/25 17:38	1
2,4'-DDE	<0.097		0.097	ug/L		10/22/25 09:06	10/23/25 17:38	1
2,4'-DDT	<0.097		0.097	ug/L		10/22/25 09:06	10/23/25 17:38	1
2,4-Dinitrotoluene	<0.097	^+	0.097	ug/L		10/22/25 09:06	10/23/25 17:38	1
2,6-Dinitrotoluene	<0.097	^3+	0.097	ug/L		10/22/25 09:06	10/23/25 17:38	1
4,4'-DDD	<0.097		0.097	ug/L		10/22/25 09:06	10/23/25 17:38	1
4,4'-DDE	<0.097		0.097	ug/L		10/22/25 09:06	10/23/25 17:38	1
4,4'-DDT	<0.097		0.097	ug/L		10/22/25 09:06	10/23/25 17:38	1
Acenaphthene	<0.097		0.097	ug/L		10/22/25 09:06	10/23/25 17:38	1
Acenaphthylene	<0.097		0.097	ug/L		10/22/25 09:06	10/23/25 17:38	1
Acetochlor	<0.097		0.097	ug/L		10/22/25 09:06	10/23/25 17:38	1
Alachlor	<0.049		0.049	ug/L		10/22/25 09:06	10/23/25 17:38	1

Eurofins Eaton Analytical Pomona

# Client Sample Results

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

Job ID: 380-177798-1  
SDG: Quarterly: Ka'amilo Wells P2

**Client Sample ID: Ka'amilo Wells P2**

**Lab Sample ID: 380-177798-1**

Date Collected: 10/16/25 10:56

Matrix: Water

Date Received: 10/17/25 09:25

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	<0.097		0.097	ug/L		10/22/25 09:06	10/23/25 17:38	1
alpha-Chlordane	<0.049		0.049	ug/L		10/22/25 09:06	10/23/25 17:38	1
Anthracene	<0.019		0.019	ug/L		10/22/25 09:06	10/23/25 17:38	1
Atrazine	<0.049		0.049	ug/L		10/22/25 09:06	10/23/25 17:38	1
Benz(a)anthracene	<0.049		0.049	ug/L		10/22/25 09:06	10/23/25 17:38	1
Benzo[a]pyrene	<0.019		0.019	ug/L		10/22/25 09:06	10/23/25 17:38	1
Benzo[b]fluoranthene	<0.019		0.019	ug/L		10/22/25 09:06	10/23/25 17:38	1
Benzo[g,h,i]perylene	<0.049		0.049	ug/L		10/22/25 09:06	10/23/25 17:38	1
Benzo[k]fluoranthene	<0.019		0.019	ug/L		10/22/25 09:06	10/23/25 17:38	1
beta-BHC	<0.097		0.097	ug/L		10/22/25 09:06	10/23/25 17:38	1
Bis(2-ethylhexyl) phthalate	<0.58		0.58	ug/L		10/22/25 09:06	10/23/25 17:38	1
Aldrin	<0.0097		0.0097	ug/L		10/22/25 09:06	10/23/25 17:38	1
Bromacil	<0.097		0.097	ug/L		10/22/25 09:06	10/23/25 17:38	1
Butachlor	<0.049	^3+	0.049	ug/L		10/22/25 09:06	10/23/25 17:38	1
Butylbenzylphthalate	<0.49	^3+	0.49	ug/L		10/22/25 09:06	10/23/25 17:38	1
Chlorobenzilate	<0.097		0.097	ug/L		10/22/25 09:06	10/23/25 17:38	1
Chloroneb	<0.097		0.097	ug/L		10/22/25 09:06	10/23/25 17:38	1
Chlorothalonil (Draconil, Bravo)	<0.097		0.097	ug/L		10/22/25 09:06	10/23/25 17:38	1
Chlorpyrifos	<0.049		0.049	ug/L		10/22/25 09:06	10/23/25 17:38	1
Chrysene	<0.019		0.019	ug/L		10/22/25 09:06	10/23/25 17:38	1
delta-BHC	<0.097		0.097	ug/L		10/22/25 09:06	10/23/25 17:38	1
Di(2-ethylhexyl)adipate	<0.58		0.58	ug/L		10/22/25 09:06	10/23/25 17:38	1
Dibenz(a,h)anthracene	<0.049		0.049	ug/L		10/22/25 09:06	10/23/25 17:38	1
Diclorvos (DDVP)	<0.049		0.049	ug/L		10/22/25 09:06	10/23/25 17:38	1
<b>Dieldrin</b>	<b>0.069</b>		0.0097	ug/L		10/22/25 09:06	10/23/25 17:38	1
Diethylphthalate	<0.49		0.49	ug/L		10/22/25 09:06	10/23/25 17:38	1
Dimethylphthalate	<0.49		0.49	ug/L		10/22/25 09:06	10/23/25 17:38	1
Di-n-butyl phthalate	<0.97		0.97	ug/L		10/22/25 09:06	10/23/25 17:38	1
Di-n-octyl phthalate	<0.097		0.097	ug/L		10/22/25 09:06	10/23/25 17:38	1
Endosulfan I (Alpha)	<0.097		0.097	ug/L		10/22/25 09:06	10/23/25 17:38	1
Endosulfan II (Beta)	<0.097		0.097	ug/L		10/22/25 09:06	10/23/25 17:38	1
Endosulfan sulfate	<0.097		0.097	ug/L		10/22/25 09:06	10/23/25 17:38	1
Endrin	<0.0097		0.0097	ug/L		10/22/25 09:06	10/23/25 17:38	1
Endrin aldehyde	<0.097		0.097	ug/L		10/22/25 09:06	10/23/25 17:38	1
EPTC	<0.097		0.097	ug/L		10/22/25 09:06	10/23/25 17:38	1
Fluoranthene	<0.097		0.097	ug/L		10/22/25 09:06	10/23/25 17:38	1
Fluorene	<0.049		0.049	ug/L		10/22/25 09:06	10/23/25 17:38	1
gamma-BHC (Lindane)	<0.0097		0.0097	ug/L		10/22/25 09:06	10/23/25 17:38	1
gamma-Chlordane	<0.049		0.049	ug/L		10/22/25 09:06	10/23/25 17:38	1
Heptachlor	<0.0097	^3+	0.0097	ug/L		10/22/25 09:06	10/23/25 17:38	1
<b>Heptachlor epoxide (isomer B)</b>	<b>0.018</b>		0.0097	ug/L		10/22/25 09:06	10/23/25 17:38	1
Hexachlorobenzene	<0.049		0.049	ug/L		10/22/25 09:06	10/23/25 17:38	1
Hexachlorocyclopentadiene	<0.049		0.049	ug/L		10/22/25 09:06	10/23/25 17:38	1
Indeno[1,2,3-cd]pyrene	<0.049		0.049	ug/L		10/22/25 09:06	10/23/25 17:38	1
Isophorone	<0.097		0.097	ug/L		10/22/25 09:06	10/23/25 17:38	1
Malathion	<0.097		0.097	ug/L		10/22/25 09:06	10/23/25 17:38	1
Methoxychlor	<0.049		0.049	ug/L		10/22/25 09:06	10/23/25 17:38	1
Metolachlor	<0.049	^3+	0.049	ug/L		10/22/25 09:06	10/23/25 17:38	1
Molinate	<0.097		0.097	ug/L		10/22/25 09:06	10/23/25 17:38	1

# Client Sample Results

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

Job ID: 380-177798-1  
SDG: Quarterly: Ka'amilo Wells P2

**Client Sample ID: Ka'amilo Wells P2**

**Lab Sample ID: 380-177798-1**

Date Collected: 10/16/25 10:56

Matrix: Water

Date Received: 10/17/25 09:25

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	<0.097		0.097	ug/L		10/22/25 09:06	10/23/25 17:38	1
Parathion	<0.097	^+	0.097	ug/L		10/22/25 09:06	10/23/25 17:38	1
Pendimethalin (Penoxaline)	<0.097		0.097	ug/L		10/22/25 09:06	10/23/25 17:38	1
Phenanthrene	<0.039		0.039	ug/L		10/22/25 09:06	10/23/25 17:38	1
Propachlor	<0.049		0.049	ug/L		10/22/25 09:06	10/23/25 17:38	1
Pyrene	<0.049		0.049	ug/L		10/22/25 09:06	10/23/25 17:38	1
Simazine	<0.049		0.049	ug/L		10/22/25 09:06	10/23/25 17:38	1
Terbacil	<0.097	^3+	0.097	ug/L		10/22/25 09:06	10/23/25 17:38	1
Terbutylazine	<0.097		0.097	ug/L		10/22/25 09:06	10/23/25 17:38	1
Thiobencarb	<0.097		0.097	ug/L		10/22/25 09:06	10/23/25 17:38	1
Total Permethrin (mixed isomers)	<0.19		0.19	ug/L		10/22/25 09:06	10/23/25 17:38	1
trans-Nonachlor	<0.049		0.049	ug/L		10/22/25 09:06	10/23/25 17:38	1
Trifluralin	<0.097		0.097	ug/L		10/22/25 09:06	10/23/25 17:38	1
1-Methylnaphthalene	<0.097		0.097	ug/L		10/22/25 09:06	10/23/25 17:38	1
2-Methylnaphthalene	<0.097		0.097	ug/L		10/22/25 09:06	10/23/25 17:38	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
9-Octadecenamide, (Z)-	2.2	T J N	ug/L		7.96	301-02-0	10/22/25 09:06	10/23/25 17:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	105		70 - 130	10/22/25 09:06	10/23/25 17:38	1
Perylene-d12	90		70 - 130	10/22/25 09:06	10/23/25 17:38	1
Triphenylphosphate	108		70 - 130	10/22/25 09:06	10/23/25 17:38	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		10/21/25 14:33	10/31/25 21:42	1
2,4,5-Trichlorophenol	<4.8		4.8	ug/L		10/21/25 14:33	10/31/25 21:42	1
2,4,6-Trichlorophenol	<0.96		0.96	ug/L		10/21/25 14:33	10/31/25 21:42	1
2,4-Dichlorophenol	<0.96		0.96	ug/L		10/21/25 14:33	10/31/25 21:42	1
2,4-Dinitrophenol	<4.8		4.8	ug/L		10/21/25 14:33	10/31/25 21:42	1
2,6-Dichlorophenol	<4.8		4.8	ug/L		10/21/25 14:33	10/31/25 21:42	1
2-Chloronaphthalene	<0.19		0.19	ug/L		10/21/25 14:33	10/31/25 21:42	1
2-Chlorophenol	<0.19		0.19	ug/L		10/21/25 14:33	10/31/25 21:42	1
2-Methylnaphthalene	<0.19		0.19	ug/L		10/21/25 14:33	10/31/25 21:42	1
2-Methylphenol	<0.96		0.96	ug/L		10/21/25 14:33	10/31/25 21:42	1
2-Nitroaniline	<4.8		4.8	ug/L		10/21/25 14:33	10/31/25 21:42	1
2-Nitrophenol	<4.8		4.8	ug/L		10/21/25 14:33	10/31/25 21:42	1
3/4-Methylphenol	<1.9		1.9	ug/L		10/21/25 14:33	10/31/25 21:42	1
3-Nitroaniline	<4.8		4.8	ug/L		10/21/25 14:33	10/31/25 21:42	1
4,6-Dinitro-2-methylphenol	<4.8		4.8	ug/L		10/21/25 14:33	10/31/25 21:42	1
4-Bromophenyl phenyl ether	<0.19		0.19	ug/L		10/21/25 14:33	10/31/25 21:42	1
4-Chloro-3-methylphenol	<0.96		0.96	ug/L		10/21/25 14:33	10/31/25 21:42	1
4-Chloroaniline	<4.8		4.8	ug/L		10/21/25 14:33	10/31/25 21:42	1
4-Chlorophenyl phenyl ether	<0.19		0.19	ug/L		10/21/25 14:33	10/31/25 21:42	1
4-Nitroaniline	<4.8		4.8	ug/L		10/21/25 14:33	10/31/25 21:42	1
4-Nitrophenol	<4.8		4.8	ug/L		10/21/25 14:33	10/31/25 21:42	1
Acenaphthene	<0.19		0.19	ug/L		10/21/25 14:33	10/31/25 21:42	1
Acenaphthylene	<0.19		0.19	ug/L		10/21/25 14:33	10/31/25 21:42	1
Aniline	<0.19	*- *1	0.19	ug/L		10/21/25 14:33	10/31/25 21:42	1

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# Client Sample Results

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

Job ID: 380-177798-1  
SDG: Quarterly: Ka'amilo Wells P2

**Client Sample ID: Ka'amilo Wells P2**

**Lab Sample ID: 380-177798-1**

**Date Collected: 10/16/25 10:56**

**Matrix: Water**

**Date Received: 10/17/25 09:25**

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	<0.19		0.19	ug/L		10/21/25 14:33	10/31/25 21:42	1
Benzidine	<4.8	*- *1	4.8	ug/L		10/21/25 14:33	10/31/25 21:42	1
Benzo[a]anthracene	<0.19		0.19	ug/L		10/21/25 14:33	10/31/25 21:42	1
Benzo[a]pyrene	<0.19		0.19	ug/L		10/21/25 14:33	10/31/25 21:42	1
Benzo[b]fluoranthene	<0.19		0.19	ug/L		10/21/25 14:33	10/31/25 21:42	1
Benzo[g,h,i]perylene	<0.19		0.19	ug/L		10/21/25 14:33	10/31/25 21:42	1
Benzo[k]fluoranthene	<0.19		0.19	ug/L		10/21/25 14:33	10/31/25 21:42	1
Benzoic acid	<9.6		9.6	ug/L		10/21/25 14:33	10/31/25 21:42	1
Benzyl alcohol	<0.96		0.96	ug/L		10/21/25 14:33	10/31/25 21:42	1
Bis(2-chloroethoxy)methane	<0.19		0.19	ug/L		10/21/25 14:33	10/31/25 21:42	1
Bis(2-chloroethyl)ether	<0.19		0.19	ug/L		10/21/25 14:33	10/31/25 21:42	1
bis (2-Chloroisopropyl) ether	<0.19		0.19	ug/L		10/21/25 14:33	10/31/25 21:42	1
Chrysene	<0.19		0.19	ug/L		10/21/25 14:33	10/31/25 21:42	1
Dibenz(a,h)anthracene	<0.19		0.19	ug/L		10/21/25 14:33	10/31/25 21:42	1
Dibenzofuran	<0.19		0.19	ug/L		10/21/25 14:33	10/31/25 21:42	1
Fluoranthene	<0.19		0.19	ug/L		10/21/25 14:33	10/31/25 21:42	1
Fluorene	<0.19		0.19	ug/L		10/21/25 14:33	10/31/25 21:42	1
Hexachloroethane	<0.19		0.19	ug/L		10/21/25 14:33	10/31/25 21:42	1
Indeno[1,2,3-cd]pyrene	<0.19		0.19	ug/L		10/21/25 14:33	10/31/25 21:42	1
Naphthalene	<0.19		0.19	ug/L		10/21/25 14:33	10/31/25 21:42	1
Nitrobenzene	<0.19		0.19	ug/L		10/21/25 14:33	10/31/25 21:42	1
N-Nitrosodi-n-propylamine	<0.19		0.19	ug/L		10/21/25 14:33	10/31/25 21:42	1
N-Nitrosodiphenylamine	<0.19		0.19	ug/L		10/21/25 14:33	10/31/25 21:42	1
Pentachlorophenol	<0.96		0.96	ug/L		10/21/25 14:33	10/31/25 21:42	1
Phenanthrene	<0.19		0.19	ug/L		10/21/25 14:33	10/31/25 21:42	1
Phenol	<0.96		0.96	ug/L		10/21/25 14:33	10/31/25 21:42	1
Pyrene	<0.19		0.19	ug/L		10/21/25 14:33	10/31/25 21:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	98		28 - 127	10/21/25 14:33	10/31/25 21:42	1
2-Fluorobiphenyl (Surr)	92		31 - 120	10/21/25 14:33	10/31/25 21:42	1
2-Fluorophenol (Surr)	55		17 - 120	10/21/25 14:33	10/31/25 21:42	1
Nitrobenzene-d5 (Surr)	98		27 - 120	10/21/25 14:33	10/31/25 21:42	1
Phenol-d6 (Surr)	33		10 - 120	10/21/25 14:33	10/31/25 21:42	1
p-Terphenyl-d14 (Surr)	92		45 - 120	10/21/25 14:33	10/31/25 21:42	1

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

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L			N/A	10/21/25 14:33	11/05/25 22:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	79		33 - 139	10/21/25 14:33	11/05/25 22:21	1
2-Fluorobiphenyl (Surr)	104		33 - 126	10/21/25 14:33	11/05/25 22:21	1
2-Fluorophenol (Surr)	64		12 - 120	10/21/25 14:33	11/05/25 22:21	1
Nitrobenzene-d5 (Surr)	101		36 - 120	10/21/25 14:33	11/05/25 22:21	1
Phenol-d6 (Surr)	27		10 - 120	10/21/25 14:33	11/05/25 22:21	1
p-Terphenyl-d14 (Surr)	93		47 - 131	10/21/25 14:33	11/05/25 22:21	1

# Client Sample Results

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

Job ID: 380-177798-1  
SDG: Quarterly: Ka'amilo Wells P2

**Client Sample ID: Ka'amilo Wells P2**

**Lab Sample ID: 380-177798-1**

Date Collected: 10/16/25 10:56

Matrix: Water

Date Received: 10/17/25 09:25

### 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			10/26/25 01:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		38 - 134				10/26/25 01:13	1

### Method: EPA-DW2 504.1 - EDB, DBCP and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	<0.020		0.020	ug/L		10/22/25 16:02	10/23/25 02:22	1
1,2-Dibromo-3-Chloropropane	<0.010		0.010	ug/L		10/22/25 16:02	10/23/25 02:22	1
1,2-Dibromoethane	<0.010		0.010	ug/L		10/22/25 16:02	10/23/25 02:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dibromopropane (Surr)	104		60 - 140			10/22/25 16:02	10/23/25 02:22	1

### Method: EPA 505 - Organochlorine Pesticides/PCBs (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Toxaphene	<0.50		0.50	ug/L		10/22/25 13:02	10/23/25 06:31	1
Chlordane (n.o.s.)	0.37		0.10	ug/L		10/22/25 13:02	10/23/25 06:31	1
PCB-1016	<0.071		0.071	ug/L		10/22/25 13:02	10/23/25 06:31	1
PCB-1221	<0.10		0.10	ug/L		10/22/25 13:02	10/23/25 06:31	1
PCB-1232	<0.10		0.10	ug/L		10/22/25 13:02	10/23/25 06:31	1
PCB-1242	<0.10		0.10	ug/L		10/22/25 13:02	10/23/25 06:31	1
PCB-1248	<0.10		0.10	ug/L		10/22/25 13:02	10/23/25 06:31	1
PCB-1254	<0.10		0.10	ug/L		10/22/25 13:02	10/23/25 06:31	1
PCB-1260	<0.071		0.071	ug/L		10/22/25 13:02	10/23/25 06:31	1
Polychlorinated biphenyls, Total	<0.10		0.10	ug/L		10/22/25 13:02	10/23/25 06:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	97		70 - 130			10/22/25 13:02	10/23/25 06:31	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		10/23/25 09:44	10/30/25 00:19	1
Motor Oil Range Organics [C24-C36]	<25		25	ug/L		10/23/25 09:44	10/30/25 00:19	1
C8-C18	<25		25	ug/L		10/23/25 09:44	10/30/25 00:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	95		60 - 130			10/23/25 09:44	10/30/25 00:19	1

### Method: SW846 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Ethanol	<0.10	^3+	0.10	mg/L			10/21/25 21:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Hexafluoro-2-propanol (Surr)	104		54 - 120				10/21/25 21:40	1

### Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	440		25	ug/L			10/21/25 18:26	5
Chloride	120		2.5	mg/L			10/20/25 23:43	5
Nitrate as N	1.9		0.10	mg/L			10/17/25 15:31	2
Nitrite as N	<0.10		0.10	mg/L			10/17/25 15:31	2

Eurofins Eaton Analytical Pomona

# Client Sample Results

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

Job ID: 380-177798-1  
SDG: Quarterly: Ka'amilo Wells P2

**Client Sample ID: Ka'amilo Wells P2**

**Lab Sample ID: 380-177798-1**

Date Collected: 10/16/25 10:56

Matrix: Water

Date Received: 10/17/25 09:25

**Method: EPA 300.0 - Anions, Ion Chromatography (Continued)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	28		0.50	mg/L			10/17/25 15:31	2

**Method: EPA 200.7 Rev 4.4 - Metals (ICP)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	21		0.10	mg/L			10/21/25 13:44	1
Magnesium	21		0.10	mg/L			10/21/25 13:44	1
Potassium	2.7		0.10	mg/L			10/21/25 13:44	1
Sodium	57		0.10	mg/L			10/21/25 13:44	1

**Method: EPA 200.8 - Mercury (ICP/MS)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	ug/L			10/20/25 18:21	1

**Method: EPA 200.8 - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.0		1.0	ug/L			10/20/25 18:18	1
Arsenic	<1.0		1.0	ug/L			10/20/25 18:18	1
Beryllium	<0.30		0.30	ug/L			10/20/25 18:18	1
Cadmium	<0.50		0.50	ug/L			10/20/25 18:18	1
Chromium	4.6		0.90	ug/L			10/20/25 18:18	1
Copper	2.6		1.0	ug/L			10/20/25 18:18	1
Lead	<0.50		0.50	ug/L			10/20/25 18:18	1
Nickel	1.6		1.0	ug/L			10/20/25 18:18	1
Selenium	4.0		2.0	ug/L			10/20/25 18:18	1
Silver	<0.50		0.50	ug/L			10/20/25 18:18	1
Thallium	<0.30		0.30	ug/L			10/20/25 18:18	1
Zinc	14		5.0	ug/L			10/20/25 18:18	1

**General Chemistry**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (SM 2320B)	75		4.0	mg/L			10/20/25 23:59	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	75		4.0	mg/L			10/20/25 23:59	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<4.0		4.0	mg/L			10/20/25 23:59	1
Specific Conductance (SM 2510B)	600		2.0	umhos/cm			10/20/25 23:59	1
Total Dissolved Solids (SM 2540C)	370		20	mg/L			10/21/25 17:00	1
Fluoride (SM 4500 F C)	0.056		0.050	mg/L			10/21/25 21:16	1
pH (SM 4500 H+ B)	7.8	HF		SU			10/20/25 23:59	1
Sulfide (SM 4500 S2 D)	<0.050		0.050	mg/L			10/20/25 13:02	1

**Client Sample ID: TB: Ka'amilo Wells P2**

**Lab Sample ID: 380-177798-2**

Date Collected: 10/16/25 10:56

Matrix: Water

Date Received: 10/17/25 09:25

**Method: EPA-DW 524.2 - Total Trihalomethanes**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Trihalomethanes, Total	<0.50		0.50	ug/L			10/21/25 17:45	1

**Method: EPA-DW 524.2 - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.50		0.50	ug/L			10/21/25 17:45	1

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# Client Sample Results

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

Job ID: 380-177798-1  
SDG: Quarterly: Ka'amilo Wells P2

**Client Sample ID: TB: Ka'amilo Wells P2**

**Lab Sample ID: 380-177798-2**

Date Collected: 10/16/25 10:56

Matrix: Water

Date Received: 10/17/25 09:25

**Method: EPA-DW 524.2 - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Tertiary Butyl Alcohol (TBA)	<2.0		2.0	ug/L			10/21/25 17:45	1
1,1,1-Trichloroethane	<0.50		0.50	ug/L			10/21/25 17:45	1
1,1,1,2-Tetrachloroethane	<0.50		0.50	ug/L			10/21/25 17:45	1
1,1,2-Trichloroethane	<0.50		0.50	ug/L			10/21/25 17:45	1
1,1-Dichloroethane	<0.50		0.50	ug/L			10/21/25 17:45	1
1,1-Dichlorethylene	<0.50		0.50	ug/L			10/21/25 17:45	1
1,1-Dichloropropene	<0.50		0.50	ug/L			10/21/25 17:45	1
1,2,3-Trichlorobenzene	<0.50		0.50	ug/L			10/21/25 17:45	1
1,2,3-Trichloropropane	<0.50		0.50	ug/L			10/21/25 17:45	1
1,2,4-Trichlorobenzene	<0.50		0.50	ug/L			10/21/25 17:45	1
1,2,4-Trimethylbenzene	<0.50		0.50	ug/L			10/21/25 17:45	1
1,2-Dichloroethane	<0.50		0.50	ug/L			10/21/25 17:45	1
1,2-Dichloropropane	<0.50		0.50	ug/L			10/21/25 17:45	1
1,3,5-Trimethylbenzene	<0.50		0.50	ug/L			10/21/25 17:45	1
1,3-Dichloropropane	<0.50		0.50	ug/L			10/21/25 17:45	1
2,2-Dichloropropane	<0.50		0.50	ug/L			10/21/25 17:45	1
2-Butanone (MEK)	<5.0		5.0	ug/L			10/21/25 17:45	1
4-Methyl-2-pentanone (MIBK)	<5.0		5.0	ug/L			10/21/25 17:45	1
Acetone	<500		500	ug/L			10/21/25 17:45	1
Benzene	<0.50		0.50	ug/L			10/21/25 17:45	1
Bromobenzene	<0.50		0.50	ug/L			10/21/25 17:45	1
Bromochloromethane	<0.50		0.50	ug/L			10/21/25 17:45	1
Bromodichloromethane	<0.50		0.50	ug/L			10/21/25 17:45	1
Bromoform	<0.50		0.50	ug/L			10/21/25 17:45	1
Bromomethane (Methyl Bromide)	<0.50		0.50	ug/L			10/21/25 17:45	1
Carbon disulfide	<0.50		0.50	ug/L			10/21/25 17:45	1
Carbon tetrachloride	<0.50		0.50	ug/L			10/21/25 17:45	1
Chlorobenzene	<0.50		0.50	ug/L			10/21/25 17:45	1
Chlorodibromomethane	<0.50		0.50	ug/L			10/21/25 17:45	1
Chloroethane	<0.50		0.50	ug/L			10/21/25 17:45	1
Chloroform (Trichloromethane)	<0.50		0.50	ug/L			10/21/25 17:45	1
Dichloromethane	<0.50		0.50	ug/L			10/21/25 17:45	1
cis-1,2-Dichloroethylene	<0.50		0.50	ug/L			10/21/25 17:45	1
cis-1,3-Dichloropropene	<0.50		0.50	ug/L			10/21/25 17:45	1
Dibromomethane	<0.50		0.50	ug/L			10/21/25 17:45	1
Dichlorodifluoromethane	<0.50		0.50	ug/L			10/21/25 17:45	1
Ethylbenzene	<0.50		0.50	ug/L			10/21/25 17:45	1
Hexachlorobutadiene	<0.50		0.50	ug/L			10/21/25 17:45	1
Isopropylbenzene	<0.50		0.50	ug/L			10/21/25 17:45	1
m,p-Xylenes	<0.50		0.50	ug/L			10/21/25 17:45	1
m-Dichlorobenzene (1,3-DCB)	<0.50		0.50	ug/L			10/21/25 17:45	1
Methyl-tert-butyl Ether (MTBE)	<0.50		0.50	ug/L			10/21/25 17:45	1
Naphthalene	<0.50		0.50	ug/L			10/21/25 17:45	1
n-Butylbenzene	<0.50		0.50	ug/L			10/21/25 17:45	1
N-Propylbenzene	<0.50		0.50	ug/L			10/21/25 17:45	1
o-Dichlorobenzene (1,2-DCB)	<0.50		0.50	ug/L			10/21/25 17:45	1
o-Chlorotoluene	<0.50		0.50	ug/L			10/21/25 17:45	1
o-Xylene	<0.50		0.50	ug/L			10/21/25 17:45	1
p-Chlorotoluene	<0.50		0.50	ug/L			10/21/25 17:45	1

# Client Sample Results

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

Job ID: 380-177798-1  
SDG: Quarterly: Ka'amilo Wells P2

**Client Sample ID: TB: Ka'amilo Wells P2**

**Lab Sample ID: 380-177798-2**

Date Collected: 10/16/25 10:56

Matrix: Water

Date Received: 10/17/25 09:25

**Method: EPA-DW 524.2 - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
p-Dichlorobenzene (1,4-DCB)	<0.50		0.50	ug/L			10/21/25 17:45	1
p-Isopropyltoluene	<0.50		0.50	ug/L			10/21/25 17:45	1
sec-Butylbenzene	<0.50		0.50	ug/L			10/21/25 17:45	1
Styrene	<0.50		0.50	ug/L			10/21/25 17:45	1
Tert-amyl methyl ether	<3.0		3.0	ug/L			10/21/25 17:45	1
Tert-butyl ethyl ether	<3.0		3.0	ug/L			10/21/25 17:45	1
tert-Butylbenzene	<0.50		0.50	ug/L			10/21/25 17:45	1
Tetrachloroethene (PCE)	<0.50		0.50	ug/L			10/21/25 17:45	1
Toluene	<0.50		0.50	ug/L			10/21/25 17:45	1
1,3-Dichloropropene, Total	<0.50		0.50	ug/L			10/21/25 17:45	1
Xylenes, Total	<0.50		0.50	ug/L			10/21/25 17:45	1
trans-1,2-Dichloroethylene	<0.50		0.50	ug/L			10/21/25 17:45	1
trans-1,3-Dichloropropene	<0.50		0.50	ug/L			10/21/25 17:45	1
Trichloroethylene (TCE)	<0.50		0.50	ug/L			10/21/25 17:45	1
Trichlorofluoromethane (Freon 11)	<0.50		0.50	ug/L			10/21/25 17:45	1
Vinyl Chloride (VC)	<0.30		0.30	ug/L			10/21/25 17:45	1
Trichlorotrifluoroethane	<0.50		0.50	ug/L			10/21/25 17:45	1
Bromoethane	<0.50		0.50	ug/L			10/21/25 17:45	1
Chloromethane (methyl chloride)	<0.50		0.50	ug/L			10/21/25 17:45	1
Diisopropyl ether	<3.0		3.0	ug/L			10/21/25 17:45	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Acetaldehyde	17	T J N	ug/L		1.64	75-07-0		10/21/25 17:45	1
Furfural	47	T J N	ug/L		10.10	98-01-1		10/21/25 17:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		70 - 130		10/21/25 17:45	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 130		10/21/25 17:45	1
4-Bromofluorobenzene (Surr)	103		70 - 130		10/21/25 17:45	1
4-Bromofluorobenzene (Surr)	103		70 - 130		10/21/25 17:45	1
Toluene-d8 (Surr)	92		70 - 130		10/21/25 17:45	1
Toluene-d8 (Surr)	92		70 - 130		10/21/25 17:45	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			10/26/25 05:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		38 - 134		10/26/25 05:14	1

**Method: EPA-DW2 504.1 - EDB, DBCP and 1,2,3-TCP (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	<0.020		0.020	ug/L		10/22/25 16:02	10/23/25 02:44	1
1,2-Dibromo-3-Chloropropane	<0.010		0.010	ug/L		10/22/25 16:02	10/23/25 02:44	1
1,2-Dibromoethane	<0.010		0.010	ug/L		10/22/25 16:02	10/23/25 02:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dibromopropane (Surr)	110		60 - 140	10/22/25 16:02	10/23/25 02:44	1

# Action Limit Summary

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

Job ID: 380-177798-1  
SDG: Quarterly: Ka'amilo Wells P2

Client Sample ID: Ka'amilo Wells P2

Lab Sample ID: 380-177798-1

## Compliance Check

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

Analyte	Result	Qualifier	Unit	HI Org Limit	EPAMCL Limit	EPAMCL S Limit	Method	Prep Type
Trihalomethanes, Total	<0.50		ug/L		80		524.2	Total/NA
1,1,1-Trichloroethane	<0.50		ug/L	200.0	200		524.2	Total/NA
1,1,2-Trichloroethane	<0.50		ug/L	5.000	5		524.2	Total/NA
1,1-Dichloroethylene	<0.50		ug/L	7.000	7		524.2	Total/NA
1,2,3-Trichloropropane	<0.50		ug/L	0.6000			524.2	Total/NA
1,2,4-Trichlorobenzene	<0.50		ug/L	70.00	70		524.2	Total/NA
1,2-Dichloroethane	<0.50		ug/L	5.000	5		524.2	Total/NA
1,2-Dichloropropane	<0.50		ug/L	5.000	5		524.2	Total/NA
Benzene	<0.50		ug/L	5.000	5		524.2	Total/NA
Bromodichloromethane	<0.50		ug/L		80		524.2	Total/NA
Bromoform	<0.50		ug/L		80		524.2	Total/NA
Carbon tetrachloride	<0.50		ug/L	5.000	5		524.2	Total/NA
Chlorobenzene	<0.50		ug/L	100.0	100		524.2	Total/NA
Chlorodibromomethane	<0.50		ug/L		80		524.2	Total/NA
Chloroform (Trichloromethane)	<0.50		ug/L		80		524.2	Total/NA
cis-1,2-Dichloroethylene	<0.50		ug/L	70.00	70		524.2	Total/NA
Dichloromethane	<0.50		ug/L	5.000	5		524.2	Total/NA
Ethylbenzene	<0.50		ug/L	700.0	700		524.2	Total/NA
o-Dichlorobenzene (1,2-DCB)	<0.50		ug/L	600.0	600		524.2	Total/NA
p-Dichlorobenzene (1,4-DCB)	<0.50		ug/L	75.000	75		524.2	Total/NA
Styrene	<0.50		ug/L	100.0	100		524.2	Total/NA
Tetrachloroethene (PCE)	<0.50		ug/L	5.000	5		524.2	Total/NA
Toluene	<0.50		ug/L	1000	1000		524.2	Total/NA
trans-1,2-Dichloroethylene	<0.50		ug/L	100.0	100		524.2	Total/NA
Trichloroethylene (TCE)	<0.50		ug/L	5.000	5		524.2	Total/NA
Vinyl Chloride (VC)	<0.30		ug/L	2.000	2		524.2	Total/NA
Xylenes, Total	<0.50		ug/L	10000	10000		524.2	Total/NA
Alachlor	<0.049		ug/L		2		525.2	Total/NA
Atrazine	<0.049		ug/L		3		525.2	Total/NA
Benzo[a]pyrene	<0.019		ug/L		0.2		525.2	Total/NA
Bis(2-ethylhexyl) phthalate	<0.58		ug/L		6		525.2	Total/NA
Di(2-ethylhexyl)adipate	<0.58		ug/L		400		525.2	Total/NA
Endrin	<0.0097		ug/L		2		525.2	Total/NA
gamma-BHC (Lindane)	<0.0097		ug/L		0.2		525.2	Total/NA
Heptachlor	<0.0097	^3+	ug/L		0.4		525.2	Total/NA
Heptachlor epoxide (isomer B)	0.018		ug/L		0.2		525.2	Total/NA
Hexachlorobenzene	<0.049		ug/L		1		525.2	Total/NA
Hexachlorocyclopentadiene	<0.049		ug/L		50		525.2	Total/NA
Methoxychlor	<0.049		ug/L		40		525.2	Total/NA
Simazine	<0.049		ug/L		4		525.2	Total/NA
Benzo[a]pyrene	<0.19		ug/L		0.2		625.1 SIM	Total/NA
Pentachlorophenol	<0.96		ug/L		1		625.1 SIM	Total/NA
1,2,3-Trichloropropane	<0.020		ug/L	0.6000			504.1	Total/NA
1,2-Dibromo-3-Chloropropane	<0.010		ug/L		0.2		504.1	Total/NA
1,2-Dibromoethane	<0.010		ug/L		0.05		504.1	Total/NA
Toxaphene	<0.50		ug/L		3		505	Total/NA
Chlordane (n.o.s.)	0.37		ug/L		2		505	Total/NA
Polychlorinated biphenyls, Total	<0.10		ug/L		0.5		505	Total/NA

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# Action Limit Summary

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

Job ID: 380-177798-1  
SDG: Quarterly: Ka'amilo Wells P2

**Client Sample ID: Ka'amilo Wells P2 (Continued)**

**Lab Sample ID: 380-177798-1**

## Compliance Check

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

Analyte	Result	Qualifier	Unit	HI Org Limit	EPAMCL Limit	EPAMCL	Method	Prep Type
						S Limit		
Chloride	120		mg/L			250	300.0	Total/NA
Nitrate as N	1.9		mg/L		10		300.0	Total/NA
Nitrite as N	<0.10		mg/L		1		300.0	Total/NA
Sulfate	28		mg/L			250	300.0	Total/NA
Mercury	<0.20		ug/L		2		200.8	Total/NA
Antimony	<1.0		ug/L		6		200.8	Total/NA
Arsenic	<1.0		ug/L		10		200.8	Total/NA
Beryllium	<0.30		ug/L		4		200.8	Total/NA
Cadmium	<0.50		ug/L		5		200.8	Total/NA
Chromium	4.6		ug/L		100		200.8	Total/NA
Copper	2.6		ug/L		1300	1000	200.8	Total/NA
Lead	<0.50		ug/L		10.00		200.8	Total/NA
Selenium	4.0		ug/L		50		200.8	Total/NA
Silver	<0.50		ug/L			100	200.8	Total/NA
Thallium	<0.30		ug/L		2		200.8	Total/NA
Zinc	14		ug/L			5000	200.8	Total/NA
Total Dissolved Solids	370		mg/L			500	SM 2540C	Total/NA
Fluoride	0.056		mg/L		4	2	SM 4500 F C	Total/NA
pH	7.8	HF	SU			6.5	SM 4500 H+ B	Total/NA

**Client Sample ID: TB: Ka'amilo Wells P2**

**Lab Sample ID: 380-177798-2**

## 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	HI Org Limit	EPAMCL Limit	RL	Method	Prep Type
1,1,1-Trichloroethane	<0.50		ug/L	200.0	200	0.50	524.2	Total/NA
1,1,2-Trichloroethane	<0.50		ug/L	5.000	5	0.50	524.2	Total/NA
1,1-Dichloroethylene	<0.50		ug/L	7.000	7	0.50	524.2	Total/NA
1,2,3-Trichloropropane	<0.50		ug/L	0.6000		0.50	524.2	Total/NA
1,2,4-Trichlorobenzene	<0.50		ug/L	70.00	70	0.50	524.2	Total/NA
1,2-Dichloroethane	<0.50		ug/L	5.000	5	0.50	524.2	Total/NA
1,2-Dichloropropane	<0.50		ug/L	5.000	5	0.50	524.2	Total/NA
Benzene	<0.50		ug/L	5.000	5	0.50	524.2	Total/NA
Bromodichloromethane	<0.50		ug/L		80	0.50	524.2	Total/NA
Bromoform	<0.50		ug/L		80	0.50	524.2	Total/NA
Carbon tetrachloride	<0.50		ug/L	5.000	5	0.50	524.2	Total/NA
Chlorobenzene	<0.50		ug/L	100.0	100	0.50	524.2	Total/NA
Chlorodibromomethane	<0.50		ug/L		80	0.50	524.2	Total/NA
Chloroform (Trichloromethane)	<0.50		ug/L		80	0.50	524.2	Total/NA
Dichloromethane	<0.50		ug/L	5.000	5	0.50	524.2	Total/NA
cis-1,2-Dichloroethylene	<0.50		ug/L	70.00	70	0.50	524.2	Total/NA
Ethylbenzene	<0.50		ug/L	700.0	700	0.50	524.2	Total/NA
o-Dichlorobenzene (1,2-DCB)	<0.50		ug/L	600.0	600	0.50	524.2	Total/NA
p-Dichlorobenzene (1,4-DCB)	<0.50		ug/L	75.000	75	0.50	524.2	Total/NA

Eurofins Eaton Analytical Pomona

# Action Limit Summary

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

Job ID: 380-177798-1  
 SDG: Quarterly: Ka'amilo Wells P2

**Client Sample ID: TB: Ka'amilo Wells P2 (Continued)**

**Lab Sample ID: 380-177798-2**

## 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	HI Org Limit	EPAMCL Limit	RL	Method	Prep Type
Styrene	<0.50		ug/L	100.0	100	0.50	524.2	Total/NA
Tetrachloroethene (PCE)	<0.50		ug/L	5.000	5	0.50	524.2	Total/NA
Toluene	<0.50		ug/L	1000	1000	0.50	524.2	Total/NA
Xylenes, Total	<0.50		ug/L	10000	10000	0.50	524.2	Total/NA
trans-1,2-Dichloroethylene	<0.50		ug/L	100.0	100	0.50	524.2	Total/NA
Trichloroethylene (TCE)	<0.50		ug/L	5.000	5	0.50	524.2	Total/NA
Vinyl Chloride (VC)	<0.30		ug/L	2.000	2	0.30	524.2	Total/NA
1,2,3-Trichloropropane	<0.020		ug/L	0.6000		0.020	504.1	Total/NA
1,2-Dibromo-3-Chloropropane	<0.010		ug/L		0.2	0.010	504.1	Total/NA
1,2-Dibromoethane	<0.010		ug/L		0.05	0.010	504.1	Total/NA

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# Surrogate Summary

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

Job ID: 380-177798-1  
SDG: Quarterly: Ka'amilo Wells P2

## Method: 524.2 - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		DCA (70-130)	DCA (70-130)	BFB (70-130)	BFB (70-130)	TOL (70-130)	TOL (70-130)
380-177798-1	Ka'amilo Wells P2	103	103	101	101	93	93
380-177798-2	TB: Ka'amilo Wells P2	103	103	103	103	92	92
LCS 380-181139/11	Lab Control Sample	100	100	99	99	104	104
LCSD 380-181139/12	Lab Control Sample Dup	99	99	100	100	102	102
MB 380-181139/15	Method Blank	104	104	100	100	93	93
MRL 380-181139/13	Lab Control Sample	102	102	99	99	97	97
MRL 380-181139/14	Lab Control Sample	104	104	96	96	97	97

### Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)  
BFB = 4-Bromofluorobenzene (Surr)  
TOL = Toluene-d8 (Surr)

## 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)
380-177536-R-1-A MS	Matrix Spike	103	95	107
380-177536-S-1-A MSD	Matrix Spike Duplicate	103	93	107
380-177798-1	Ka'amilo Wells P2	105	90	108
LCS 380-181363/22-A	Lab Control Sample	105	95	109
MB 380-181363/20-A	Method Blank	104	83	103
MRL 380-181363/21-A	Lab Control Sample	106	82	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)
380-177798-1	Ka'amilo Wells P2	79	104	64	101	27	93
MB 570-643951/1-A	Method Blank	82	88	54	88	33	92

### 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: 380-177798-1  
 SDG: Quarterly: Ka'amilo Wells P2

## 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)
380-177798-1	Ka'amilo Wells P2	98	92	55	98	33	92
380-178070-A-1-A MS	Matrix Spike	86	86	51	77	33	82
380-178070-A-1-B MSD	Matrix Spike Duplicate	88	88	52	76	33	85
LCS 570-643951/2-A	Lab Control Sample	84	81	61	72	38	83
LCSD 570-643951/3-A	Lab Control Sample Dup	72	74	54	66	35	75
MB 570-643951/1-A	Method Blank	94	80	46	83	32	89

### 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: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)
		BFB1 (38-134)
380-177798-1	Ka'amilo Wells P2	84
380-177798-2	TB: Ka'amilo Wells P2	81
380-178571-C-1 MS	Matrix Spike	83
380-178571-C-1 MSD	Matrix Spike Duplicate	87
LCS 570-646186/33	Lab Control Sample	85
LCSD 570-646186/34	Lab Control Sample Dup	82
MB 570-646186/35	Method Blank	78
MRL 570-646186/32	Lab Control Sample	78

### Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

## Method: 504.1 - EDB, DBCP and 1,2,3-TCP (GC)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)
		DBPP1 (60-140)
380-177798-1	Ka'amilo Wells P2	104
380-177798-2	TB: Ka'amilo Wells P2	110
380-178037-BW-1-A MS	Matrix Spike	99
380-178038-BV-1-A DU	Duplicate	99
LCS 380-181489/29-A	Lab Control Sample	105
MBL 380-181489/4-A	Method Blank	108
MRL 380-181489/2-A	Lab Control Sample	91
MRL 380-181489/3-A	Lab Control Sample	97

### Surrogate Legend

DBPP = 1,2-Dibromopropane (Surr)

# Surrogate Summary

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

Job ID: 380-177798-1  
SDG: Quarterly: Ka'amilo Wells P2

## Method: 505 - Organochlorine Pesticides/PCBs (GC)

Matrix: Water

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TCX1 (70-130)
380-177798-1	Ka'amilo Wells P2	97
380-178190-C-1-A MS	Matrix Spike	93
380-178190-D-1-A MS	Matrix Spike	102
380-178190-G-2-A MS	Matrix Spike	102
380-178190-H-2-A MS	Matrix Spike	102
LCS 380-181362/28-A	Lab Control Sample	101
LCS 380-181362/30-A	Lab Control Sample	104
LCS 380-181362/31-A	Lab Control Sample	102
LCSD 380-181362/29-A	Lab Control Sample Dup	99
MB 380-181362/3-A	Method Blank	94
MRL 380-181362/1-A	Lab Control Sample	106
MRL 380-181362/2-A	Lab Control Sample	101

#### Surrogate Legend

TCX = Tetrachloro-m-xylene

## 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)
380-177798-1	Ka'amilo Wells P2	95
380-178070-C-1-C MS	Matrix Spike	110
380-178070-C-1-D MSD	Matrix Spike Duplicate	103
LCS 570-644924/2-A	Lab Control Sample	104
LCSD 570-644924/3-A	Lab Control Sample Dup	99
MB 570-644924/1-A	Method Blank	98
MRL 570-644924/4-A	Lab Control Sample	109

#### Surrogate Legend

OTCSN = n-Octacosane (Surr)

## Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC)

Matrix: Water

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	HF2PP1 (54-120)
380-177079-I-1 MS	Matrix Spike	94
380-177079-I-1 MSD	Matrix Spike Duplicate	95
380-177798-1	Ka'amilo Wells P2	104
LCS 570-643985/5	Lab Control Sample	100
LCSD 570-643985/6	Lab Control Sample Dup	95
MB 570-643985/3	Method Blank	96
MRL 570-643985/4	Lab Control Sample	106

#### Surrogate Legend

HF2PP = Hexafluoro-2-propanol (Surr)

# QC Sample Results

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

Job ID: 380-177798-1  
 SDG: Quarterly: Ka'amilo Wells P2

## Method: 524.2 - Volatile Organic Compounds (GC/MS)

**Lab Sample ID: MB 380-181139/15**  
**Matrix: Water**  
**Analysis Batch: 181139**

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.50		0.50	ug/L			10/21/25 16:45	1
Tertiary Butyl Alcohol (TBA)	<2.0		2.0	ug/L			10/21/25 16:45	1
1,1,1-Trichloroethane	<0.50		0.50	ug/L			10/21/25 16:45	1
1,1,2,2-Tetrachloroethane	<0.50		0.50	ug/L			10/21/25 16:45	1
1,1,2-Trichloroethane	<0.50		0.50	ug/L			10/21/25 16:45	1
1,1-Dichloroethane	<0.50		0.50	ug/L			10/21/25 16:45	1
1,1-Dichlorethylene	<0.50		0.50	ug/L			10/21/25 16:45	1
1,1-Dichloropropene	<0.50		0.50	ug/L			10/21/25 16:45	1
1,2,3-Trichlorobenzene	<0.50		0.50	ug/L			10/21/25 16:45	1
1,2,3-Trichloropropane	<0.50		0.50	ug/L			10/21/25 16:45	1
1,2,4-Trichlorobenzene	<0.50		0.50	ug/L			10/21/25 16:45	1
1,2,4-Trimethylbenzene	<0.50		0.50	ug/L			10/21/25 16:45	1
1,2-Dichloroethane	<0.50		0.50	ug/L			10/21/25 16:45	1
1,2-Dichloropropane	<0.50		0.50	ug/L			10/21/25 16:45	1
1,3,5-Trimethylbenzene	<0.50		0.50	ug/L			10/21/25 16:45	1
1,3-Dichloropropane	<0.50		0.50	ug/L			10/21/25 16:45	1
2,2-Dichloropropane	<0.50		0.50	ug/L			10/21/25 16:45	1
2-Butanone (MEK)	<5.0		5.0	ug/L			10/21/25 16:45	1
4-Methyl-2-pentanone (MIBK)	<5.0		5.0	ug/L			10/21/25 16:45	1
Acetone	<500		500	ug/L			10/21/25 16:45	1
Benzene	<0.50		0.50	ug/L			10/21/25 16:45	1
Bromobenzene	<0.50		0.50	ug/L			10/21/25 16:45	1
Bromochloromethane	<0.50		0.50	ug/L			10/21/25 16:45	1
Bromodichloromethane	<0.50		0.50	ug/L			10/21/25 16:45	1
Bromoform	<0.50		0.50	ug/L			10/21/25 16:45	1
Bromomethane (Methyl Bromide)	<0.50		0.50	ug/L			10/21/25 16:45	1
Carbon disulfide	<0.50		0.50	ug/L			10/21/25 16:45	1
Carbon tetrachloride	<0.50		0.50	ug/L			10/21/25 16:45	1
Chlorobenzene	<0.50		0.50	ug/L			10/21/25 16:45	1
Chlorodibromomethane	<0.50		0.50	ug/L			10/21/25 16:45	1
Chloroethane	<0.50		0.50	ug/L			10/21/25 16:45	1
Chloroform (Trichloromethane)	<0.50		0.50	ug/L			10/21/25 16:45	1
cis-1,2-Dichloroethylene	<0.50		0.50	ug/L			10/21/25 16:45	1
cis-1,3-Dichloropropene	<0.50		0.50	ug/L			10/21/25 16:45	1
Dibromomethane	<0.50		0.50	ug/L			10/21/25 16:45	1
Dichlorodifluoromethane	<0.50		0.50	ug/L			10/21/25 16:45	1
Dichloromethane	<0.50		0.50	ug/L			10/21/25 16:45	1
Ethylbenzene	<0.50		0.50	ug/L			10/21/25 16:45	1
Hexachlorobutadiene	<0.50		0.50	ug/L			10/21/25 16:45	1
Isopropylbenzene	<0.50		0.50	ug/L			10/21/25 16:45	1
m,p-Xylenes	<0.50		0.50	ug/L			10/21/25 16:45	1
m-Dichlorobenzene (1,3-DCB)	<0.50		0.50	ug/L			10/21/25 16:45	1
Methyl-tert-butyl Ether (MTBE)	<0.50		0.50	ug/L			10/21/25 16:45	1
Naphthalene	<0.50		0.50	ug/L			10/21/25 16:45	1
n-Butylbenzene	<0.50		0.50	ug/L			10/21/25 16:45	1
N-Propylbenzene	<0.50		0.50	ug/L			10/21/25 16:45	1
o-Chlorotoluene	<0.50		0.50	ug/L			10/21/25 16:45	1
o-Dichlorobenzene (1,2-DCB)	<0.50		0.50	ug/L			10/21/25 16:45	1

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# QC Sample Results

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

Job ID: 380-177798-1  
SDG: Quarterly: Ka'amilo Wells P2

## Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 380-181139/15**  
**Matrix: Water**  
**Analysis Batch: 181139**

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.50		0.50	ug/L			10/21/25 16:45	1
p-Chlorotoluene	<0.50		0.50	ug/L			10/21/25 16:45	1
p-Dichlorobenzene (1,4-DCB)	<0.50		0.50	ug/L			10/21/25 16:45	1
p-Isopropyltoluene	<0.50		0.50	ug/L			10/21/25 16:45	1
sec-Butylbenzene	<0.50		0.50	ug/L			10/21/25 16:45	1
Styrene	<0.50		0.50	ug/L			10/21/25 16:45	1
Tert-amyl methyl ether	<3.0		3.0	ug/L			10/21/25 16:45	1
1,3-Dichloropropene, Total	<0.50		0.50	ug/L			10/21/25 16:45	1
Tert-butyl ethyl ether	<3.0		3.0	ug/L			10/21/25 16:45	1
tert-Butylbenzene	<0.50		0.50	ug/L			10/21/25 16:45	1
Tetrachloroethene (PCE)	<0.50		0.50	ug/L			10/21/25 16:45	1
Toluene	<0.50		0.50	ug/L			10/21/25 16:45	1
trans-1,2-Dichloroethylene	<0.50		0.50	ug/L			10/21/25 16:45	1
trans-1,3-Dichloropropene	<0.50		0.50	ug/L			10/21/25 16:45	1
Trichloroethylene (TCE)	<0.50		0.50	ug/L			10/21/25 16:45	1
Bromoethane	<0.50		0.50	ug/L			10/21/25 16:45	1
Trichlorofluoromethane (Freon 11)	<0.50		0.50	ug/L			10/21/25 16:45	1
Chloromethane (methyl chloride)	<0.50		0.50	ug/L			10/21/25 16:45	1
Trichlorotrifluoroethane	<0.50		0.50	ug/L			10/21/25 16:45	1
Diisopropyl ether	<3.0		3.0	ug/L			10/21/25 16:45	1
Vinyl Chloride (VC)	<0.30		0.30	ug/L			10/21/25 16:45	1
Xylenes, Total	<0.50		0.50	ug/L			10/21/25 16:45	1

<i>Tentatively Identified Compound</i>	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
<i>Tentatively Identified Compound</i>	None		ug/L			N/A		10/21/25 16:45	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>1,2-Dichloroethane-d4 (Surr)</i>	104		70 - 130		10/21/25 16:45	1
<i>4-Bromofluorobenzene (Surr)</i>	100		70 - 130		10/21/25 16:45	1
<i>Toluene-d8 (Surr)</i>	93		70 - 130		10/21/25 16:45	1

**Lab Sample ID: LCS 380-181139/11**  
**Matrix: Water**  
**Analysis Batch: 181139**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	5.00	5.82		ug/L		116	70 - 130
1,1,1-Trichloroethane	5.00	5.57		ug/L		111	70 - 130
1,1,2,2-Tetrachloroethane	5.00	6.40		ug/L		128	70 - 130
1,1,2-Trichloroethane	5.00	5.43		ug/L		109	70 - 130
1,1-Dichloroethane	5.00	5.67		ug/L		113	70 - 130
1,1-Dichlorethylene	5.00	5.88		ug/L		118	70 - 130
1,1-Dichloropropene	5.00	5.25		ug/L		105	70 - 130
1,2,3-Trichlorobenzene	5.00	5.60		ug/L		112	70 - 130
1,2,3-Trichloropropane	5.00	6.16		ug/L		123	70 - 130
1,2,4-Trichlorobenzene	5.00	5.71		ug/L		114	70 - 130
1,2,4-Trimethylbenzene	5.00	6.30		ug/L		126	70 - 130
1,2-Dichloroethane	5.00	5.49		ug/L		110	70 - 130

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# QC Sample Results

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

Job ID: 380-177798-1  
SDG: Quarterly: Ka'amilo Wells P2

## Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 380-181139/11**  
**Matrix: Water**  
**Analysis Batch: 181139**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichloropropane	5.00	5.42		ug/L		108	70 - 130
1,3,5-Trimethylbenzene	5.00	5.99		ug/L		120	70 - 130
1,3-Dichloropropane	5.00	5.13		ug/L		103	70 - 130
2,2-Dichloropropane	5.00	5.74		ug/L		115	70 - 130
2-Butanone (MEK)	50.0	54.8		ug/L		110	70 - 130
4-Methyl-2-pentanone (MIBK)	50.0	52.7		ug/L		105	70 - 130
Acetone	50.0	48.0	J	ug/L		96	70 - 130
Benzene	5.00	5.17		ug/L		103	70 - 130
Bromobenzene	5.00	5.49		ug/L		110	70 - 130
Bromochloromethane	5.00	5.65		ug/L		113	70 - 130
Bromodichloromethane	5.00	5.45		ug/L		109	70 - 130
Bromoform	5.00	5.35		ug/L		107	70 - 130
Bromomethane (Methyl Bromide)	5.00	6.44		ug/L		129	70 - 130
Carbon disulfide	5.00	5.81		ug/L		116	70 - 130
Carbon tetrachloride	5.00	5.49		ug/L		110	70 - 130
Chlorobenzene	5.00	5.40		ug/L		108	70 - 130
Chlorodibromomethane	5.00	5.39		ug/L		108	70 - 130
cis-1,3-Dichloropropene	5.00	5.77		ug/L		115	70 - 130
Dichloromethane	5.00	5.82		ug/L		116	70 - 130
Ethylbenzene	5.00	5.59		ug/L		112	70 - 130
Hexachlorobutadiene	5.00	6.19		ug/L		124	70 - 130
Isopropylbenzene	5.00	5.56		ug/L		111	70 - 130
m,p-Xylenes	10.0	11.7		ug/L		117	70 - 130
m-Dichlorobenzene (1,3-DCB)	5.00	6.09		ug/L		122	70 - 130
Methyl-tert-butyl Ether (MTBE)	5.00	4.91		ug/L		98	70 - 130
Naphthalene	5.00	5.22		ug/L		104	70 - 130
n-Butylbenzene	5.00	5.47		ug/L		109	70 - 130
N-Propylbenzene	5.00	5.78		ug/L		116	70 - 130
o-Chlorotoluene	5.00	6.27		ug/L		125	70 - 130
o-Dichlorobenzene (1,2-DCB)	5.00	5.61		ug/L		112	70 - 130
o-Xylene	5.00	5.75		ug/L		115	70 - 130
p-Chlorotoluene	5.00	6.05		ug/L		121	70 - 130
p-Dichlorobenzene (1,4-DCB)	5.00	6.11		ug/L		122	70 - 130
p-Isopropyltoluene	5.00	6.10		ug/L		122	70 - 130
sec-Butylbenzene	5.00	6.10		ug/L		122	70 - 130
Styrene	5.00	5.74		ug/L		115	70 - 130
Tert-amyl methyl ether	5.00	5.05		ug/L		101	70 - 130
1,3-Dichloropropene, Total	10.0	11.4		ug/L		114	70 - 130
Tert-butyl ethyl ether	5.00	5.12		ug/L		102	70 - 130
tert-Butylbenzene	5.00	6.36		ug/L		127	70 - 130
Tetrachloroethene (PCE)	5.00	5.64		ug/L		113	70 - 130
Toluene	5.00	5.40		ug/L		108	70 - 130
trans-1,2-Dichloroethylene	5.00	5.96		ug/L		119	70 - 130
trans-1,3-Dichloropropene	5.00	5.61		ug/L		112	70 - 130
Trichloroethylene (TCE)	5.00	5.48		ug/L		110	70 - 130
Bromoethane	5.00	5.60		ug/L		112	70 - 130
Trichlorofluoromethane (Freon 11)	5.00	5.31		ug/L		106	70 - 130
Trichlorotrifluoroethane	5.00	5.08		ug/L		102	70 - 130

Eurofins Eaton Analytical Pomona

# QC Sample Results

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

Job ID: 380-177798-1  
SDG: Quarterly: Ka'amilo Wells P2

## Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 380-181139/11**  
**Matrix: Water**  
**Analysis Batch: 181139**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diisopropyl ether	5.00	4.86		ug/L		97	70 - 130
Vinyl Chloride (VC)	5.00	5.88		ug/L		118	70 - 130
Xylenes, Total	15.0	17.4		ug/L		116	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		70 - 130
4-Bromofluorobenzene (Surr)	99		70 - 130
Toluene-d8 (Surr)	104		70 - 130

**Lab Sample ID: LCSD 380-181139/12**  
**Matrix: Water**  
**Analysis Batch: 181139**

**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
1,1,1,2-Tetrachloroethane	5.00	5.63		ug/L		113	70 - 130	3	20
1,1,1-Trichloroethane	5.00	5.60		ug/L		112	70 - 130	0	20
1,1,2,2-Tetrachloroethane	5.00	6.47		ug/L		129	70 - 130	1	20
1,1,2-Trichloroethane	5.00	5.48		ug/L		110	70 - 130	1	20
1,1-Dichloroethane	5.00	5.61		ug/L		112	70 - 130	1	20
1,1-Dichlorethylene	5.00	5.90		ug/L		118	70 - 130	0	20
1,1-Dichloropropene	5.00	5.34		ug/L		107	70 - 130	2	20
1,2,3-Trichlorobenzene	5.00	5.69		ug/L		114	70 - 130	2	20
1,2,3-Trichloropropane	5.00	6.09		ug/L		122	70 - 130	1	20
1,2,4-Trichlorobenzene	5.00	5.56		ug/L		111	70 - 130	3	20
1,2,4-Trimethylbenzene	5.00	6.26		ug/L		125	70 - 130	1	20
1,2-Dichloroethane	5.00	5.39		ug/L		108	70 - 130	2	20
1,2-Dichloropropane	5.00	5.47		ug/L		109	70 - 130	1	20
1,3,5-Trimethylbenzene	5.00	5.94		ug/L		119	70 - 130	1	20
1,3-Dichloropropane	5.00	5.16		ug/L		103	70 - 130	0	20
2,2-Dichloropropane	5.00	5.90		ug/L		118	70 - 130	3	20
2-Butanone (MEK)	50.0	57.0		ug/L		114	70 - 130	4	20
4-Methyl-2-pentanone (MIBK)	50.0	53.6		ug/L		107	70 - 130	2	20
Acetone	50.0	49.1	J	ug/L		98	70 - 130	2	20
Benzene	5.00	5.20		ug/L		104	70 - 130	0	20
Bromobenzene	5.00	5.51		ug/L		110	70 - 130	0	20
Bromochloromethane	5.00	5.55		ug/L		111	70 - 130	2	20
Bromodichloromethane	5.00	5.39		ug/L		108	70 - 130	1	20
Bromoform	5.00	5.39		ug/L		108	70 - 130	1	20
Bromomethane (Methyl Bromide)	5.00	6.09		ug/L		122	70 - 130	6	20
Carbon disulfide	5.00	5.27		ug/L		105	70 - 130	10	20
Carbon tetrachloride	5.00	5.59		ug/L		112	70 - 130	2	20
Chlorobenzene	5.00	5.40		ug/L		108	70 - 130	0	20
Chlorodibromomethane	5.00	5.34		ug/L		107	70 - 130	1	20
cis-1,3-Dichloropropene	5.00	5.64		ug/L		113	70 - 130	2	20
Dichloromethane	5.00	5.77		ug/L		115	70 - 130	1	20
Ethylbenzene	5.00	5.56		ug/L		111	70 - 130	1	20
Hexachlorobutadiene	5.00	6.24		ug/L		125	70 - 130	1	20
Isopropylbenzene	5.00	5.64		ug/L		113	70 - 130	1	20

# QC Sample Results

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

Job ID: 380-177798-1  
SDG: Quarterly: Ka'amilo Wells P2

## Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 380-181139/12**  
**Matrix: Water**  
**Analysis Batch: 181139**

**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
m,p-Xylenes	10.0	11.6		ug/L		116	70 - 130	1	20
m-Dichlorobenzene (1,3-DCB)	5.00	5.97		ug/L		119	70 - 130	2	20
Methyl-tert-butyl Ether (MTBE)	5.00	4.96		ug/L		99	70 - 130	1	20
Naphthalene	5.00	5.43		ug/L		109	70 - 130	4	20
n-Butylbenzene	5.00	5.60		ug/L		112	70 - 130	2	20
N-Propylbenzene	5.00	5.76		ug/L		115	70 - 130	0	20
o-Chlorotoluene	5.00	6.11		ug/L		122	70 - 130	3	20
o-Dichlorobenzene (1,2-DCB)	5.00	5.68		ug/L		114	70 - 130	1	20
o-Xylene	5.00	5.85		ug/L		117	70 - 130	2	20
p-Chlorotoluene	5.00	5.92		ug/L		118	70 - 130	2	20
p-Dichlorobenzene (1,4-DCB)	5.00	6.01		ug/L		120	70 - 130	2	20
p-Isopropyltoluene	5.00	6.12		ug/L		122	70 - 130	0	20
sec-Butylbenzene	5.00	6.14		ug/L		123	70 - 130	1	20
Styrene	5.00	5.65		ug/L		113	70 - 130	2	20
Tert-amyl methyl ether	5.00	5.05		ug/L		101	70 - 130	0	20
1,3-Dichloropropene, Total	10.0	11.2		ug/L		112	70 - 130	1	20
Tert-butyl ethyl ether	5.00	5.29		ug/L		106	70 - 130	3	20
tert-Butylbenzene	5.00	6.36		ug/L		127	70 - 130	0	20
Tetrachloroethene (PCE)	5.00	5.54		ug/L		111	70 - 130	2	20
Toluene	5.00	5.40		ug/L		108	70 - 130	0	20
trans-1,2-Dichloroethylene	5.00	5.70		ug/L		114	70 - 130	4	20
trans-1,3-Dichloropropene	5.00	5.58		ug/L		112	70 - 130	0	20
Trichloroethylene (TCE)	5.00	5.47		ug/L		109	70 - 130	0	20
Bromoethane	5.00	5.55		ug/L		111	70 - 130	1	20
Trichlorofluoromethane (Freon 11)	5.00	5.38		ug/L		108	70 - 130	1	20
Trichlorotrifluoroethane	5.00	5.01		ug/L		100	70 - 130	2	20
Diisopropyl ether	5.00	4.77		ug/L		95	70 - 130	2	20
Vinyl Chloride (VC)	5.00	5.83		ug/L		117	70 - 130	1	20
Xylenes, Total	15.0	17.4		ug/L		116	70 - 130	0	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		70 - 130
4-Bromofluorobenzene (Surr)	100		70 - 130
Toluene-d8 (Surr)	102		70 - 130

**Lab Sample ID: MRL 380-181139/13**  
**Matrix: Water**  
**Analysis Batch: 181139**

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
m,p-Xylenes	0.500	0.422	J	ug/L		84	50 - 150
Vinyl Chloride (VC)	0.250	0.245	J	ug/L		98	50 - 150

Surrogate	MRL %Recovery	MRL Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	102		70 - 130
4-Bromofluorobenzene (Surr)	99		70 - 130
Toluene-d8 (Surr)	97		70 - 130

# QC Sample Results

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

Job ID: 380-177798-1  
SDG: Quarterly: Ka'amilo Wells P2

## Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MRL 380-181139/14**  
**Matrix: Water**  
**Analysis Batch: 181139**

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	0.500	0.451	J	ug/L		90	50 - 150
1,1,1-Trichloroethane	0.500	0.466	J	ug/L		93	50 - 150
1,1,2,2-Tetrachloroethane	0.500	0.564		ug/L		113	50 - 150
1,1,2-Trichloroethane	0.500	0.522		ug/L		104	50 - 150
1,1-Dichloroethane	0.500	0.489	J	ug/L		98	50 - 150
1,1-Dichlorethylene	0.500	0.488	J	ug/L		98	50 - 150
1,1-Dichloropropene	0.500	0.478	J	ug/L		96	50 - 150
1,2,3-Trichlorobenzene	0.500	0.554		ug/L		111	50 - 150
1,2,3-Trichloropropane	0.500	0.568		ug/L		114	50 - 150
1,2,4-Trichlorobenzene	0.500	0.590		ug/L		118	50 - 150
1,2,4-Trimethylbenzene	0.500	0.458	J	ug/L		92	50 - 150
1,2-Dichloroethane	0.500	0.504		ug/L		101	50 - 150
1,2-Dichloropropane	0.500	0.471	J	ug/L		94	50 - 150
1,3,5-Trimethylbenzene	0.500	0.415	J	ug/L		83	50 - 150
1,3-Dichloropropane	0.500	0.470	J	ug/L		94	50 - 150
2,2-Dichloropropane	0.500	0.464	J	ug/L		93	50 - 150
2-Butanone (MEK)	5.00	5.23		ug/L		105	50 - 150
4-Methyl-2-pentanone (MIBK)	5.00	4.33	J	ug/L		87	50 - 150
Acetone	5.00	6.34	J	ug/L		127	50 - 150
Benzene	0.500	0.516		ug/L		103	50 - 150
Bromobenzene	0.500	0.491	J	ug/L		98	50 - 150
Bromochloromethane	0.500	0.489	J	ug/L		98	50 - 150
Bromodichloromethane	0.500	0.416	J	ug/L		83	50 - 150
Bromoform	0.500	0.343	J	ug/L		69	50 - 150
Bromomethane (Methyl Bromide)	0.500	0.713		ug/L		143	50 - 150
Carbon disulfide	0.500	0.504		ug/L		101	50 - 150
Carbon tetrachloride	0.500	0.431	J	ug/L		86	50 - 150
Chlorobenzene	0.500	0.470	J	ug/L		94	50 - 150
Chlorodibromomethane	0.500	0.413	J	ug/L		83	50 - 150
cis-1,3-Dichloropropene	0.500	0.563		ug/L		113	50 - 150
Dichloromethane	0.500	0.532		ug/L		106	50 - 150
Ethylbenzene	0.500	0.429	J	ug/L		86	50 - 150
Hexachlorobutadiene	0.500	0.642		ug/L		128	50 - 150
Isopropylbenzene	0.500	0.422	J	ug/L		84	50 - 150
m,p-Xylenes	1.00	0.837		ug/L		84	50 - 150
m-Dichlorobenzene (1,3-DCB)	0.500	0.511		ug/L		102	50 - 150
Methyl-tert-butyl Ether (MTBE)	0.500	0.484	J	ug/L		97	50 - 150
Naphthalene	0.500	0.514		ug/L		103	50 - 150
n-Butylbenzene	0.500	0.470	J	ug/L		94	50 - 150
N-Propylbenzene	0.500	0.425	J	ug/L		85	50 - 150
o-Chlorotoluene	0.500	0.508		ug/L		102	50 - 150
o-Dichlorobenzene (1,2-DCB)	0.500	0.520		ug/L		104	50 - 150
o-Xylene	0.500	0.424	J	ug/L		85	50 - 150
p-Chlorotoluene	0.500	0.427	J	ug/L		85	50 - 150
p-Dichlorobenzene (1,4-DCB)	0.500	0.504		ug/L		101	50 - 150
p-Isopropyltoluene	0.500	0.451	J	ug/L		90	50 - 150
sec-Butylbenzene	0.500	0.439	J	ug/L		88	50 - 150
Styrene	0.500	0.379	J	ug/L		76	50 - 150

# QC Sample Results

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

Job ID: 380-177798-1  
SDG: Quarterly: Ka'amilo Wells P2

## Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MRL 380-181139/14**  
**Matrix: Water**  
**Analysis Batch: 181139**

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Tert-amyl methyl ether	0.500	0.489	J	ug/L	-	98	50 - 150
1,3-Dichloropropene, Total	1.00	1.12		ug/L	-	112	50 - 150
Tert-butyl ethyl ether	0.500	0.506	J	ug/L	-	101	50 - 150
tert-Butylbenzene	0.500	0.505		ug/L	-	101	50 - 150
Tetrachloroethene (PCE)	0.500	0.472	J	ug/L	-	94	50 - 150
Toluene	0.500	0.474	J	ug/L	-	95	50 - 150
trans-1,2-Dichloroethylene	0.500	0.482	J	ug/L	-	96	50 - 150
trans-1,3-Dichloropropene	0.500	0.560		ug/L	-	112	50 - 150
Trichloroethylene (TCE)	0.500	0.490	J	ug/L	-	98	50 - 150
Bromoethane	0.500	0.479	J	ug/L	-	96	50 - 150
Trichlorofluoromethane (Freon 11)	0.500	0.414	J	ug/L	-	83	50 - 150
Trichlorotrifluoroethane	0.500	0.497	J	ug/L	-	99	50 - 150
Diisopropyl ether	0.500	0.505	J	ug/L	-	101	50 - 150
Vinyl Chloride (VC)	0.500	0.494		ug/L	-	99	50 - 150
Xylenes, Total	1.50	1.26		ug/L	-	84	50 - 150

Surrogate	MRL %Recovery	MRL Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	104		70 - 130
4-Bromofluorobenzene (Surr)	96		70 - 130
Toluene-d8 (Surr)	97		70 - 130

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

**Lab Sample ID: MB 380-181363/20-A**  
**Matrix: Water**  
**Analysis Batch: 181709**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 181363**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
2,4'-DDD	<0.099		0.099	ug/L	-	10/22/25 09:06	10/23/25 13:33	1
2,4'-DDE	<0.099		0.099	ug/L	-	10/22/25 09:06	10/23/25 13:33	1
2,4'-DDT	<0.099		0.099	ug/L	-	10/22/25 09:06	10/23/25 13:33	1
2,4-Dinitrotoluene	<0.099		0.099	ug/L	-	10/22/25 09:06	10/23/25 13:33	1
2,6-Dinitrotoluene	<0.099	^3+	0.099	ug/L	-	10/22/25 09:06	10/23/25 13:33	1
4,4'-DDD	<0.099		0.099	ug/L	-	10/22/25 09:06	10/23/25 13:33	1
4,4'-DDE	<0.099		0.099	ug/L	-	10/22/25 09:06	10/23/25 13:33	1
4,4'-DDT	<0.099		0.099	ug/L	-	10/22/25 09:06	10/23/25 13:33	1
Acenaphthene	<0.099		0.099	ug/L	-	10/22/25 09:06	10/23/25 13:33	1
Acenaphthylene	<0.099		0.099	ug/L	-	10/22/25 09:06	10/23/25 13:33	1
Acetochlor	<0.099		0.099	ug/L	-	10/22/25 09:06	10/23/25 13:33	1
Alachlor	<0.050		0.050	ug/L	-	10/22/25 09:06	10/23/25 13:33	1
alpha-BHC	<0.099		0.099	ug/L	-	10/22/25 09:06	10/23/25 13:33	1
alpha-Chlordane	<0.050		0.050	ug/L	-	10/22/25 09:06	10/23/25 13:33	1
Anthracene	<0.020		0.020	ug/L	-	10/22/25 09:06	10/23/25 13:33	1
Atrazine	<0.050		0.050	ug/L	-	10/22/25 09:06	10/23/25 13:33	1
Benz(a)anthracene	<0.050		0.050	ug/L	-	10/22/25 09:06	10/23/25 13:33	1
Benzo[a]pyrene	<0.020		0.020	ug/L	-	10/22/25 09:06	10/23/25 13:33	1
Benzo[b]fluoranthene	<0.020		0.020	ug/L	-	10/22/25 09:06	10/23/25 13:33	1
Benzo[g,h,i]perylene	<0.050		0.050	ug/L	-	10/22/25 09:06	10/23/25 13:33	1

Eurofins Eaton Analytical Pomona

# QC Sample Results

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

Job ID: 380-177798-1  
SDG: Quarterly: Ka'amilo Wells P2

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

**Lab Sample ID: MB 380-181363/20-A**  
**Matrix: Water**  
**Analysis Batch: 181709**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 181363**

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Benzo[k]fluoranthene	<0.020		0.020	ug/L		10/22/25 09:06	10/23/25 13:33	1
beta-BHC	<0.099		0.099	ug/L		10/22/25 09:06	10/23/25 13:33	1
Bis(2-ethylhexyl) phthalate	<0.60		0.60	ug/L		10/22/25 09:06	10/23/25 13:33	1
Aldrin	<0.0099		0.0099	ug/L		10/22/25 09:06	10/23/25 13:33	1
Bromacil	<0.099		0.099	ug/L		10/22/25 09:06	10/23/25 13:33	1
Butachlor	<0.050	^3+	0.050	ug/L		10/22/25 09:06	10/23/25 13:33	1
Butylbenzylphthalate	<0.50	^3+	0.50	ug/L		10/22/25 09:06	10/23/25 13:33	1
Chlorobenzilate	<0.099		0.099	ug/L		10/22/25 09:06	10/23/25 13:33	1
Chloroneb	<0.099		0.099	ug/L		10/22/25 09:06	10/23/25 13:33	1
Chlorothalonil (Draconil, Bravo)	<0.099		0.099	ug/L		10/22/25 09:06	10/23/25 13:33	1
Chlorpyrifos	<0.050		0.050	ug/L		10/22/25 09:06	10/23/25 13:33	1
Chrysene	<0.020		0.020	ug/L		10/22/25 09:06	10/23/25 13:33	1
delta-BHC	<0.099		0.099	ug/L		10/22/25 09:06	10/23/25 13:33	1
Di(2-ethylhexyl)adipate	<0.60		0.60	ug/L		10/22/25 09:06	10/23/25 13:33	1
Dibenz(a,h)anthracene	<0.050		0.050	ug/L		10/22/25 09:06	10/23/25 13:33	1
Diclorvos (DDVP)	<0.050		0.050	ug/L		10/22/25 09:06	10/23/25 13:33	1
Dieldrin	<0.0099		0.0099	ug/L		10/22/25 09:06	10/23/25 13:33	1
Diethylphthalate	<0.50		0.50	ug/L		10/22/25 09:06	10/23/25 13:33	1
Dimethylphthalate	<0.50		0.50	ug/L		10/22/25 09:06	10/23/25 13:33	1
Di-n-butyl phthalate	<0.99		0.99	ug/L		10/22/25 09:06	10/23/25 13:33	1
Di-n-octyl phthalate	<0.099		0.099	ug/L		10/22/25 09:06	10/23/25 13:33	1
Endosulfan I (Alpha)	<0.099		0.099	ug/L		10/22/25 09:06	10/23/25 13:33	1
Endosulfan II (Beta)	<0.099		0.099	ug/L		10/22/25 09:06	10/23/25 13:33	1
Endosulfan sulfate	<0.099		0.099	ug/L		10/22/25 09:06	10/23/25 13:33	1
Endrin	<0.0099		0.0099	ug/L		10/22/25 09:06	10/23/25 13:33	1
Endrin aldehyde	<0.099		0.099	ug/L		10/22/25 09:06	10/23/25 13:33	1
EPTC	<0.099		0.099	ug/L		10/22/25 09:06	10/23/25 13:33	1
Fluoranthene	<0.099		0.099	ug/L		10/22/25 09:06	10/23/25 13:33	1
Fluorene	<0.050		0.050	ug/L		10/22/25 09:06	10/23/25 13:33	1
gamma-BHC (Lindane)	<0.0099		0.0099	ug/L		10/22/25 09:06	10/23/25 13:33	1
gamma-Chlordane	<0.050		0.050	ug/L		10/22/25 09:06	10/23/25 13:33	1
Heptachlor	<0.0099	^3+	0.0099	ug/L		10/22/25 09:06	10/23/25 13:33	1
Heptachlor epoxide (isomer B)	<0.0099		0.0099	ug/L		10/22/25 09:06	10/23/25 13:33	1
Hexachlorobenzene	<0.050		0.050	ug/L		10/22/25 09:06	10/23/25 13:33	1
Hexachlorocyclopentadiene	<0.050		0.050	ug/L		10/22/25 09:06	10/23/25 13:33	1
Indeno[1,2,3-cd]pyrene	<0.050		0.050	ug/L		10/22/25 09:06	10/23/25 13:33	1
Isophorone	<0.099		0.099	ug/L		10/22/25 09:06	10/23/25 13:33	1
Malathion	<0.099		0.099	ug/L		10/22/25 09:06	10/23/25 13:33	1
Methoxychlor	<0.050		0.050	ug/L		10/22/25 09:06	10/23/25 13:33	1
Metolachlor	<0.050	^3+	0.050	ug/L		10/22/25 09:06	10/23/25 13:33	1
Molinate	<0.099		0.099	ug/L		10/22/25 09:06	10/23/25 13:33	1
Naphthalene	<0.099		0.099	ug/L		10/22/25 09:06	10/23/25 13:33	1
Parathion	<0.099		0.099	ug/L		10/22/25 09:06	10/23/25 13:33	1
Pendimethalin (Penoxaline)	<0.099		0.099	ug/L		10/22/25 09:06	10/23/25 13:33	1
Phenanthrene	<0.040		0.040	ug/L		10/22/25 09:06	10/23/25 13:33	1
Propachlor	<0.050		0.050	ug/L		10/22/25 09:06	10/23/25 13:33	1
Pyrene	<0.050		0.050	ug/L		10/22/25 09:06	10/23/25 13:33	1
Simazine	<0.050		0.050	ug/L		10/22/25 09:06	10/23/25 13:33	1
Terbacil	<0.099	^3+	0.099	ug/L		10/22/25 09:06	10/23/25 13:33	1

Eurofins Eaton Analytical Pomona

# QC Sample Results

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

Job ID: 380-177798-1  
SDG: Quarterly: Ka'amilo Wells P2

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

**Lab Sample ID: MB 380-181363/20-A**  
**Matrix: Water**  
**Analysis Batch: 181709**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 181363**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Terbutylazine	<0.099		0.099	ug/L		10/22/25 09:06	10/23/25 13:33	1
Thiobencarb	<0.099		0.099	ug/L		10/22/25 09:06	10/23/25 13:33	1
Total Permethrin (mixed isomers)	<0.20		0.20	ug/L		10/22/25 09:06	10/23/25 13:33	1
trans-Nonachlor	<0.050		0.050	ug/L		10/22/25 09:06	10/23/25 13:33	1
Trifluralin	<0.099		0.099	ug/L		10/22/25 09:06	10/23/25 13:33	1
1-Methylnaphthalene	<0.099		0.099	ug/L		10/22/25 09:06	10/23/25 13:33	1
2-Methylnaphthalene	<0.099		0.099	ug/L		10/22/25 09:06	10/23/25 13:33	1

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Cyclopentene, 1,2,3,4,5-pentamethyl-	1.02	T J N	ug/L		2.58	1000154-28-6	10/22/25 09:06	10/23/25 13:33	1
Decane	1.17	T J N	ug/L		2.83	124-18-5	10/22/25 09:06	10/23/25 13:33	1
Undecane	1.53	T J N	ug/L		3.18	1120-21-4	10/22/25 09:06	10/23/25 13:33	1
Cyclopentasiloxane, decamethyl-	1.03	T J N	ug/L		3.31	541-02-6	10/22/25 09:06	10/23/25 13:33	1
Phenol, m-tert-butyl-	2.11	T J N	ug/L		3.90	585-34-2	10/22/25 09:06	10/23/25 13:33	1
Phenol, 4-(1,1-dimethylpropyl)-	0.625	T J N	ug/L		4.30	80-46-6	10/22/25 09:06	10/23/25 13:33	1
Unknown	0.574	T J	ug/L		4.56	N/A	10/22/25 09:06	10/23/25 13:33	1
Phenol, 2,4-bis(1,1-dimethylethyl)-	0.511	T J N	ug/L		4.71	96-76-4	10/22/25 09:06	10/23/25 13:33	1
9-Octadecenamamide, (Z)-	1.17	T J N	ug/L		7.95	301-02-0	10/22/25 09:06	10/23/25 13:33	1
Heneicosane	0.592	T J N	ug/L		15.07	629-94-7	10/22/25 09:06	10/23/25 13:33	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	104		70 - 130	10/22/25 09:06	10/23/25 13:33	1
Perylene-d12	83		70 - 130	10/22/25 09:06	10/23/25 13:33	1
Triphenylphosphate	103		70 - 130	10/22/25 09:06	10/23/25 13:33	1

**Lab Sample ID: LCS 380-181363/22-A**  
**Matrix: Water**  
**Analysis Batch: 181709**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 181363**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
2,4'-DDD	1.98	2.13		ug/L		107	70 - 130
2,4'-DDE	1.98	2.12		ug/L		107	70 - 130
2,4'-DDT	1.98	2.19		ug/L		110	70 - 130
2,4-Dinitrotoluene	1.98	2.25		ug/L		113	70 - 130
2,6-Dinitrotoluene	1.98	2.25		ug/L		113	70 - 130
4,4'-DDD	1.98	2.13		ug/L		108	70 - 130
4,4'-DDE	1.98	1.97		ug/L		99	70 - 130
4,4'-DDT	1.98	2.16		ug/L		109	70 - 130
Acenaphthene	1.98	1.80		ug/L		91	70 - 130
Acenaphthylene	1.98	1.85		ug/L		93	70 - 130
Acetochlor	1.98	2.31		ug/L		117	70 - 130
Alachlor	1.98	2.20		ug/L		111	70 - 130
alpha-BHC	1.98	2.14		ug/L		108	70 - 130
alpha-Chlordane	1.98	1.98		ug/L		100	70 - 130
Anthracene	1.98	1.75		ug/L		88	70 - 130
Atrazine	1.98	2.36		ug/L		119	70 - 130
Benz(a)anthracene	1.98	1.81		ug/L		91	70 - 130

Eurofins Eaton Analytical Pomona

# QC Sample Results

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

Job ID: 380-177798-1  
SDG: Quarterly: Ka'amilo Wells P2

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

**Lab Sample ID: LCS 380-181363/22-A**  
**Matrix: Water**  
**Analysis Batch: 181709**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 181363**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzo[a]pyrene	1.98	1.93		ug/L		97	70 - 130
Benzo[b]fluoranthene	1.98	1.85		ug/L		93	70 - 130
Benzo[g,h,i]perylene	1.98	1.91		ug/L		96	70 - 130
Benzo[k]fluoranthene	1.98	2.04		ug/L		103	70 - 130
beta-BHC	1.98	2.16		ug/L		109	70 - 130
Bis(2-ethylhexyl) phthalate	1.98	2.35		ug/L		119	70 - 130
Aldrin	1.98	1.60		ug/L		80	70 - 130
Bromacil	1.98	2.47		ug/L		125	70 - 130
Butachlor	1.98	2.34		ug/L		118	70 - 130
Butylbenzylphthalate	1.98	2.57		ug/L		129	70 - 130
Chlorobenzilate	1.98	2.41		ug/L		122	70 - 130
Chloroneb	1.98	2.03		ug/L		102	70 - 130
Chlorothalonil (Draconil, Bravo)	1.98	2.10		ug/L		106	70 - 130
Chlorpyrifos	1.98	2.30		ug/L		116	70 - 130
Chrysene	1.98	2.00		ug/L		101	70 - 130
delta-BHC	1.98	2.17		ug/L		109	70 - 130
Di(2-ethylhexyl)adipate	1.98	2.52		ug/L		127	70 - 130
Dibenz(a,h)anthracene	1.98	1.90		ug/L		96	70 - 130
Diclorvos (DDVP)	1.98	2.18		ug/L		110	70 - 130
Dieldrin	1.98	1.98		ug/L		100	70 - 130
Diethylphthalate	1.98	2.22		ug/L		112	70 - 130
Dimethylphthalate	1.98	2.13		ug/L		108	70 - 130
Di-n-butyl phthalate	3.97	4.61		ug/L		116	70 - 130
Di-n-octyl phthalate	1.98	2.11		ug/L		106	70 - 130
Endosulfan I (Alpha)	1.98	2.05		ug/L		103	70 - 130
Endosulfan II (Beta)	1.98	2.26		ug/L		114	70 - 130
Endosulfan sulfate	1.98	2.21		ug/L		112	70 - 130
Endrin	1.98	2.29		ug/L		115	70 - 130
Endrin aldehyde	1.98	2.11		ug/L		107	60 - 130
EPTC	1.98	2.10		ug/L		106	70 - 130
Fluoranthene	1.98	2.12		ug/L		107	70 - 130
Fluorene	1.98	1.86		ug/L		94	70 - 130
gamma-BHC (Lindane)	1.98	2.35		ug/L		118	70 - 130
gamma-Chlordane	1.98	2.01		ug/L		101	70 - 130
Heptachlor	1.98	2.30		ug/L		116	70 - 130
Heptachlor epoxide (isomer B)	1.98	1.91		ug/L		96	70 - 130
Hexachlorobenzene	1.98	2.05		ug/L		103	70 - 130
Hexachlorocyclopentadiene	1.98	2.24		ug/L		113	70 - 130
Indeno[1,2,3-cd]pyrene	1.98	1.87		ug/L		94	70 - 130
Isophorone	1.98	1.89		ug/L		95	70 - 130
Malathion	1.98	2.40		ug/L		121	70 - 130
Methoxychlor	1.98	2.27		ug/L		114	70 - 130
Metolachlor	1.98	2.31		ug/L		117	70 - 130
Molinate	1.98	2.14		ug/L		108	70 - 130
Naphthalene	1.98	2.01		ug/L		101	70 - 130
Parathion	1.98	2.51		ug/L		127	70 - 130
Pendimethalin (Penoxaline)	1.98	2.20		ug/L		111	70 - 130
Phenanthrene	1.98	1.85		ug/L		93	70 - 130
Propachlor	1.98	2.35		ug/L		118	70 - 130

Eurofins Eaton Analytical Pomona

# QC Sample Results

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

Job ID: 380-177798-1  
SDG: Quarterly: Ka'amilo Wells P2

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

**Lab Sample ID: LCS 380-181363/22-A**  
**Matrix: Water**  
**Analysis Batch: 181709**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 181363**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Pyrene	1.98	2.11		ug/L		106	70 - 130
Simazine	1.98	2.29		ug/L		115	70 - 130
Terbacil	1.98	2.40		ug/L		121	70 - 130
Terbutylazine	1.98	2.39		ug/L		121	70 - 130
Thiobencarb	1.98	2.08		ug/L		105	70 - 130
trans-Nonachlor	1.98	1.93		ug/L		97	70 - 130
Trifluralin	1.98	2.19		ug/L		110	70 - 130
1-Methylnaphthalene	1.98	1.94		ug/L		98	70 - 130
2-Methylnaphthalene	1.98	1.91		ug/L		96	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Nitro-m-xylene	105		70 - 130
Perylene-d12	95		70 - 130
Triphenylphosphate	109		70 - 130

**Lab Sample ID: MRL 380-181363/21-A**  
**Matrix: Water**  
**Analysis Batch: 181709**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 181363**

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
2,4'-DDD	0.0992	0.105		ug/L		105	50 - 150
2,4'-DDE	0.0992	0.127		ug/L		128	50 - 150
2,4'-DDT	0.0992	0.123		ug/L		124	50 - 150
2,4-Dinitrotoluene	0.0992	0.134		ug/L		135	50 - 150
2,6-Dinitrotoluene	0.0992	0.152	^3+	ug/L		153	50 - 150
4,4'-DDD	0.0992	0.115		ug/L		116	50 - 150
4,4'-DDE	0.0992	0.0976	J	ug/L		98	50 - 150
4,4'-DDT	0.0992	0.130		ug/L		131	50 - 150
Acenaphthene	0.0992	0.117		ug/L		118	50 - 150
Acenaphthylene	0.0992	0.101		ug/L		101	50 - 150
Acetochlor	0.0992	0.145		ug/L		146	50 - 150
Alachlor	0.0496	0.0703		ug/L		142	50 - 150
alpha-BHC	0.0992	0.128		ug/L		129	50 - 150
alpha-Chlordane	0.0248	0.0307	J	ug/L		124	50 - 150
Anthracene	0.0198	0.0262		ug/L		132	50 - 150
Atrazine	0.0496	0.0598		ug/L		121	50 - 150
Benz(a)anthracene	0.0496	0.0559		ug/L		113	50 - 150
Benzo[a]pyrene	0.0198	0.0185	J	ug/L		93	50 - 150
Benzo[b]fluoranthene	0.0198	0.0211		ug/L		106	50 - 150
Benzo[g,h,i]perylene	0.0496	0.0516		ug/L		104	50 - 150
Benzo[k]fluoranthene	0.0198	0.0221		ug/L		112	50 - 150
beta-BHC	0.0992	0.128		ug/L		129	50 - 150
Bis(2-ethylhexyl) phthalate	0.595	0.723		ug/L		122	50 - 150
Aldrin	0.00992	<0.0099		ug/L		66	50 - 150
Bromacil	0.0992	0.146		ug/L		147	50 - 150
Butachlor	0.0496	0.0794	^3+	ug/L		160	50 - 150
Butylbenzylphthalate	0.496	0.750	^3+	ug/L		151	50 - 150
Chlorobenzilate	0.0992	0.140		ug/L		141	50 - 150

# QC Sample Results

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

Job ID: 380-177798-1  
SDG: Quarterly: Ka'amilo Wells P2

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

**Lab Sample ID: MRL 380-181363/21-A**  
**Matrix: Water**  
**Analysis Batch: 181709**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 181363**

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Chloroneb	0.0992	0.120		ug/L		121	50 - 150
Chlorothalonil (Draconil, Bravo)	0.0992	0.106		ug/L		107	50 - 150
Chlorpyrifos	0.0496	0.0511		ug/L		103	50 - 150
Chrysene	0.0198	0.0220		ug/L		111	50 - 150
delta-BHC	0.0992	0.124		ug/L		125	50 - 150
Di(2-ethylhexyl)adipate	0.595	0.777		ug/L		130	50 - 150
Dibenz(a,h)anthracene	0.0496	0.0437	J	ug/L		88	50 - 150
Diclorvos (DDVP)	0.0496	0.0727		ug/L		147	50 - 150
Dieldrin	0.00992	0.0136		ug/L		137	50 - 150
Diethylphthalate	0.496	0.674		ug/L		136	50 - 150
Dimethylphthalate	0.496	0.633		ug/L		128	50 - 150
Di-n-butyl phthalate	0.496	0.685	J	ug/L		138	49 - 243
Di-n-octyl phthalate	0.0992	0.0907	J	ug/L		91	50 - 150
Endosulfan I (Alpha)	0.0992	0.0883	J	ug/L		89	50 - 150
Endosulfan II (Beta)	0.0992	0.108		ug/L		109	50 - 150
Endosulfan sulfate	0.0992	0.118		ug/L		119	50 - 150
Endrin	0.00992	0.0140		ug/L		141	50 - 150
Endrin aldehyde	0.0992	0.119		ug/L		120	50 - 150
EPTC	0.0992	0.125		ug/L		126	50 - 150
Fluoranthene	0.0992	0.105		ug/L		106	50 - 150
Fluorene	0.0496	0.0689		ug/L		139	50 - 150
gamma-BHC (Lindane)	0.00992	0.0130		ug/L		131	50 - 150
gamma-Chlordane	0.0248	0.0303	J	ug/L		122	50 - 150
Heptachlor	0.00992	0.0193	^3+	ug/L		195	50 - 150
Heptachlor epoxide (isomer B)	0.00992	0.0133		ug/L		134	50 - 150
Hexachlorobenzene	0.0496	0.0506		ug/L		102	50 - 150
Hexachlorocyclopentadiene	0.0496	0.0581		ug/L		117	50 - 150
Indeno[1,2,3-cd]pyrene	0.0496	0.0440	J	ug/L		89	50 - 150
Isophorone	0.0992	0.124		ug/L		125	50 - 150
Malathion	0.0992	0.146		ug/L		147	50 - 150
Methoxychlor	0.0496	0.0625		ug/L		126	50 - 150
Metolachlor	0.0496	0.0762	^3+	ug/L		154	50 - 150
Molinate	0.0992	0.121		ug/L		122	50 - 150
Naphthalene	0.0992	0.112		ug/L		113	50 - 150
Parathion	0.0992	0.106		ug/L		107	50 - 150
Pendimethalin (Penoxaline)	0.0992	0.100		ug/L		101	50 - 150
Phenanthrene	0.0397	0.0526		ug/L		133	50 - 150
Propachlor	0.0496	0.0639		ug/L		129	50 - 150
Pyrene	0.0496	0.0517		ug/L		104	50 - 150
Simazine	0.0496	0.0560		ug/L		113	50 - 150
Terbacil	0.0992	0.154	^3+	ug/L		155	50 - 150
Terbutylazine	0.0992	0.119		ug/L		120	50 - 150
Thiobencarb	0.0992	0.125		ug/L		126	50 - 150
trans-Nonachlor	0.0248	0.0313	J	ug/L		126	50 - 150
Trifluralin	0.0992	0.112		ug/L		112	50 - 150
1-Methylnaphthalene	0.0992	0.129		ug/L		130	50 - 150
2-Methylnaphthalene	0.0992	0.119		ug/L		120	50 - 150

# QC Sample Results

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

Job ID: 380-177798-1  
SDG: Quarterly: Ka'amilo Wells P2

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

**Lab Sample ID: MRL 380-181363/21-A**  
**Matrix: Water**  
**Analysis Batch: 181709**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 181363**

Surrogate	MRL %Recovery	MRL Qualifier	Limits
2-Nitro-m-xylene	106		70 - 130
Perylene-d12	82		70 - 130
Triphenylphosphate	105		70 - 130

**Lab Sample ID: 380-177536-R-1-A MS**  
**Matrix: Water**  
**Analysis Batch: 181709**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**  
**Prep Batch: 181363**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
2,4'-DDD	<0.099		1.98	2.16		ug/L		109	70 - 130
2,4'-DDE	<0.099		1.98	2.12		ug/L		107	70 - 130
2,4'-DDT	<0.099		1.98	2.20		ug/L		111	70 - 130
2,4-Dinitrotoluene	<0.099	^+	1.98	2.41		ug/L		122	70 - 130
2,6-Dinitrotoluene	<0.099	^3+	1.98	2.42		ug/L		122	70 - 130
4,4'-DDD	<0.099		1.98	2.12		ug/L		107	70 - 130
4,4'-DDE	<0.099		1.98	1.95		ug/L		99	70 - 130
4,4'-DDT	<0.099		1.98	2.19		ug/L		111	70 - 130
Acenaphthene	<0.099		1.98	1.80		ug/L		91	70 - 130
Acenaphthylene	<0.099		1.98	1.85		ug/L		93	70 - 130
Acetochlor	<0.099		1.98	2.28		ug/L		115	70 - 130
Alachlor	<0.049		1.98	2.16		ug/L		109	70 - 130
alpha-BHC	<0.099		1.98	2.13		ug/L		108	70 - 130
alpha-Chlordane	<0.049		1.98	1.94		ug/L		98	70 - 130
Anthracene	<0.020		1.98	1.60		ug/L		81	70 - 130
Atrazine	<0.049		1.98	2.36		ug/L		119	70 - 130
Benz(a)anthracene	<0.049		1.98	1.80		ug/L		91	70 - 130
Benzo[a]pyrene	<0.020		1.98	1.91		ug/L		96	70 - 130
Benzo[b]fluoranthene	<0.020		1.98	1.94		ug/L		98	70 - 130
Benzo[g,h,i]perylene	<0.049		1.98	1.87		ug/L		94	70 - 130
Benzo[k]fluoranthene	<0.020		1.98	2.01		ug/L		102	70 - 130
beta-BHC	<0.099		1.98	2.20		ug/L		111	70 - 130
Bis(2-ethylhexyl) phthalate	<0.59		1.98	2.26		ug/L		114	70 - 130
Aldrin	<0.0099		1.98	1.57		ug/L		80	70 - 130
Bromacil	<0.099		1.98	2.53		ug/L		128	70 - 130
Butachlor	<0.049	^3+	1.98	2.31		ug/L		117	70 - 130
Butylbenzylphthalate	<0.49	^3+	1.98	2.48		ug/L		125	70 - 130
Chlorobenzilate	<0.099		1.98	2.37		ug/L		120	70 - 130
Chloroneb	<0.099		1.98	2.00		ug/L		101	70 - 130
Chlorothalonil (Draconil, Bravo)	<0.099		1.98	2.11		ug/L		106	70 - 130
Chlorpyrifos	<0.049		1.98	2.28		ug/L		115	70 - 130
Chrysene	<0.020		1.98	2.03		ug/L		103	70 - 130
delta-BHC	<0.099		1.98	2.15		ug/L		109	70 - 130
Di(2-ethylhexyl)adipate	<0.59		1.98	2.41		ug/L		122	70 - 130
Dibenz(a,h)anthracene	<0.049		1.98	1.91		ug/L		96	70 - 130
Diclorvos (DDVP)	<0.049		1.98	2.19		ug/L		111	70 - 130
Dieldrin	<0.0099		1.98	1.93		ug/L		98	70 - 130
Diethylphthalate	<0.49		1.98	2.17		ug/L		110	70 - 130
Dimethylphthalate	<0.49		1.98	2.11		ug/L		107	70 - 130

# QC Sample Results

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

Job ID: 380-177798-1  
SDG: Quarterly: Ka'amilo Wells P2

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

**Lab Sample ID: 380-177536-R-1-A MS**  
**Matrix: Water**  
**Analysis Batch: 181709**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**  
**Prep Batch: 181363**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier					
Di-n-butyl phthalate	<0.99		3.96	4.55		ug/L		115	70 - 130	
Di-n-octyl phthalate	<0.099		1.98	2.07		ug/L		104	70 - 130	
Endosulfan I (Alpha)	<0.099		1.98	1.97		ug/L		100	70 - 130	
Endosulfan II (Beta)	<0.099		1.98	2.24		ug/L		113	70 - 130	
Endosulfan sulfate	<0.099		1.98	2.21		ug/L		112	70 - 130	
Endrin	<0.0099		1.98	2.31		ug/L		117	70 - 130	
Endrin aldehyde	<0.099		1.98	1.80		ug/L		91	60 - 130	
EPTC	<0.099		1.98	2.08		ug/L		105	70 - 130	
Fluoranthene	<0.099		1.98	2.17		ug/L		110	70 - 130	
Fluorene	<0.049		1.98	1.88		ug/L		95	70 - 130	
gamma-BHC (Lindane)	<0.0099		1.98	2.35		ug/L		119	70 - 130	
gamma-Chlordane	<0.049		1.98	2.03		ug/L		103	70 - 130	
Heptachlor	<0.0099	^3+	1.98	2.32		ug/L		117	70 - 130	
Heptachlor epoxide (isomer B)	<0.0099		1.98	1.92		ug/L		97	70 - 130	
Hexachlorobenzene	<0.049		1.98	2.06		ug/L		104	70 - 130	
Hexachlorocyclopentadiene	<0.049		1.98	2.26		ug/L		114	70 - 130	
Indeno[1,2,3-cd]pyrene	<0.049		1.98	1.90		ug/L		96	70 - 130	
Isophorone	<0.099		1.98	1.87		ug/L		95	70 - 130	
Malathion	<0.099		1.98	2.35		ug/L		119	70 - 130	
Methoxychlor	<0.049		1.98	2.33		ug/L		118	70 - 130	
Metolachlor	<0.049	^3+	1.98	2.30		ug/L		116	70 - 130	
Molinate	<0.099		1.98	2.15		ug/L		109	70 - 130	
Naphthalene	<0.099		1.98	2.01		ug/L		102	70 - 130	
Parathion	<0.099	^+	1.98	2.54		ug/L		128	70 - 130	
Pendimethalin (Penoxaline)	<0.099		1.98	2.32		ug/L		117	70 - 130	
Phenanthrene	<0.040		1.98	1.86		ug/L		94	70 - 130	
Propachlor	<0.049		1.98	2.37		ug/L		120	70 - 130	
Pyrene	<0.049		1.98	2.16		ug/L		109	70 - 130	
Simazine	<0.049		1.98	2.29		ug/L		116	70 - 130	
Terbacil	<0.099	^3+	1.98	2.39		ug/L		121	70 - 130	
Terbutylazine	<0.099		1.98	2.44		ug/L		123	70 - 130	
Thiobencarb	<0.099		1.98	2.06		ug/L		104	70 - 130	
trans-Nonachlor	<0.049		1.98	1.89		ug/L		96	70 - 130	
Trifluralin	<0.099		1.98	2.30		ug/L		116	70 - 130	
1-Methylnaphthalene	<0.099		1.98	1.92		ug/L		96	70 - 130	
2-Methylnaphthalene	<0.099		1.98	1.89		ug/L		95	70 - 130	

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
2-Nitro-m-xylene	103		70 - 130
Perylene-d12	95		70 - 130
Triphenylphosphate	107		70 - 130

**Lab Sample ID: 380-177536-S-1-A MSD**  
**Matrix: Water**  
**Analysis Batch: 181709**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 181363**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	Limits	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier						Limit	
2,4'-DDD	<0.099		1.97	2.12		ug/L		108	70 - 130	1	20	

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# QC Sample Results

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

Job ID: 380-177798-1  
SDG: Quarterly: Ka'amilo Wells P2

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

**Lab Sample ID: 380-177536-S-1-A MSD**  
**Matrix: Water**  
**Analysis Batch: 181709**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 181363**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		
2,4'-DDE	<0.099		1.97	2.13		ug/L		108	70 - 130	1	20
2,4'-DDT	<0.099		1.97	2.21		ug/L		112	70 - 130	0	20
2,4-Dinitrotoluene	<0.099	^+	1.97	2.41		ug/L		122	70 - 130	0	20
2,6-Dinitrotoluene	<0.099	^3+	1.97	2.24		ug/L		114	70 - 130	8	20
4,4'-DDD	<0.099		1.97	2.14		ug/L		108	70 - 130	1	20
4,4'-DDE	<0.099		1.97	1.94		ug/L		98	70 - 130	1	20
4,4'-DDT	<0.099		1.97	2.19		ug/L		111	70 - 130	0	20
Acenaphthene	<0.099		1.97	1.82		ug/L		93	70 - 130	2	20
Acenaphthylene	<0.099		1.97	1.92		ug/L		97	70 - 130	4	20
Acetochlor	<0.099		1.97	2.23		ug/L		113	70 - 130	2	20
Alachlor	<0.049		1.97	2.14		ug/L		109	70 - 130	1	20
alpha-BHC	<0.099		1.97	2.14		ug/L		109	70 - 130	0	20
alpha-Chlordane	<0.049		1.97	1.99		ug/L		101	70 - 130	2	20
Anthracene	<0.020		1.97	1.58		ug/L		80	70 - 130	1	20
Atrazine	<0.049		1.97	2.41		ug/L		122	70 - 130	2	20
Benz(a)anthracene	<0.049		1.97	1.83		ug/L		93	70 - 130	1	20
Benzo[a]pyrene	<0.020		1.97	1.90		ug/L		96	70 - 130	0	20
Benzo[b]fluoranthene	<0.020		1.97	1.91		ug/L		97	70 - 130	2	20
Benzo[g,h,i]perylene	<0.049		1.97	1.87		ug/L		95	70 - 130	0	20
Benzo[k]fluoranthene	<0.020		1.97	1.96		ug/L		100	70 - 130	3	20
beta-BHC	<0.099		1.97	2.18		ug/L		111	70 - 130	1	20
Bis(2-ethylhexyl) phthalate	<0.59		1.97	2.25		ug/L		114	70 - 130	0	20
Aldrin	<0.0099		1.97	1.57		ug/L		80	70 - 130	0	20
Bromacil	<0.099		1.97	2.46		ug/L		125	70 - 130	3	20
Butachlor	<0.049	^3+	1.97	2.30		ug/L		116	70 - 130	0	20
Butylbenzylphthalate	<0.49	^3+	1.97	2.50		ug/L		127	70 - 130	1	20
Chlorobenzilate	<0.099		1.97	2.42		ug/L		123	70 - 130	2	20
Chloroneb	<0.099		1.97	2.02		ug/L		102	70 - 130	1	20
Chlorothalonil (Draconil, Bravo)	<0.099		1.97	2.11		ug/L		107	70 - 130	0	20
Chlorpyrifos	<0.049		1.97	2.27		ug/L		115	70 - 130	0	20
Chrysene	<0.020		1.97	2.00		ug/L		102	70 - 130	2	20
delta-BHC	<0.099		1.97	2.16		ug/L		110	70 - 130	0	20
Di(2-ethylhexyl)adipate	<0.59		1.97	2.50		ug/L		127	70 - 130	3	20
Dibenz(a,h)anthracene	<0.049		1.97	1.84		ug/L		93	70 - 130	4	20
Diclorvos (DDVP)	<0.049		1.97	2.14		ug/L		108	70 - 130	3	20
Dieldrin	<0.0099		1.97	1.92		ug/L		97	70 - 130	1	20
Diethylphthalate	<0.49		1.97	2.19		ug/L		111	70 - 130	1	20
Dimethylphthalate	<0.49		1.97	2.09		ug/L		106	70 - 130	1	20
Di-n-butyl phthalate	<0.99		3.94	4.57		ug/L		116	70 - 130	0	20
Di-n-octyl phthalate	<0.099		1.97	2.03		ug/L		103	70 - 130	2	20
Endosulfan I (Alpha)	<0.099		1.97	2.00		ug/L		101	70 - 130	1	20
Endosulfan II (Beta)	<0.099		1.97	2.22		ug/L		113	70 - 130	1	20
Endosulfan sulfate	<0.099		1.97	2.16		ug/L		110	70 - 130	2	20
Endrin	<0.0099		1.97	2.26		ug/L		115	70 - 130	2	20
Endrin aldehyde	<0.099		1.97	1.81		ug/L		92	60 - 130	1	20
EPTC	<0.099		1.97	2.06		ug/L		104	70 - 130	1	20
Fluoranthene	<0.099		1.97	2.18		ug/L		111	70 - 130	1	20
Fluorene	<0.049		1.97	1.90		ug/L		96	70 - 130	1	20
gamma-BHC (Lindane)	<0.0099		1.97	2.34		ug/L		119	70 - 130	1	20

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# QC Sample Results

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

Job ID: 380-177798-1  
SDG: Quarterly: Ka'amilo Wells P2

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

**Lab Sample ID: 380-177536-S-1-A MSD**  
**Matrix: Water**  
**Analysis Batch: 181709**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 181363**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		
gamma-Chlordane	<0.049		1.97	1.99		ug/L		101	70 - 130	2	20
Heptachlor	<0.0099	^3+	1.97	2.31		ug/L		117	70 - 130	1	20
Heptachlor epoxide (isomer B)	<0.0099		1.97	1.90		ug/L		96	70 - 130	1	20
Hexachlorobenzene	<0.049		1.97	2.16		ug/L		110	70 - 130	5	20
Hexachlorocyclopentadiene	<0.049		1.97	2.36		ug/L		120	70 - 130	5	20
Indeno[1,2,3-cd]pyrene	<0.049		1.97	1.87		ug/L		95	70 - 130	2	20
Isophorone	<0.099		1.97	1.82		ug/L		93	70 - 130	3	20
Malathion	<0.099		1.97	2.37		ug/L		120	70 - 130	1	20
Methoxychlor	<0.049		1.97	2.30		ug/L		117	70 - 130	1	20
Metolachlor	<0.049	^3+	1.97	2.27		ug/L		115	70 - 130	1	20
Molinate	<0.099		1.97	2.16		ug/L		110	70 - 130	0	20
Naphthalene	<0.099		1.97	2.01		ug/L		102	70 - 130	0	20
Parathion	<0.099	^+	1.97	2.55		ug/L		129	70 - 130	0	20
Pendimethalin (Penoxaline)	<0.099		1.97	2.38		ug/L		121	70 - 130	3	20
Phenanthrene	<0.040		1.97	1.85		ug/L		94	70 - 130	1	20
Propachlor	<0.049		1.97	2.36		ug/L		120	70 - 130	0	20
Pyrene	<0.049		1.97	2.16		ug/L		110	70 - 130	0	20
Simazine	<0.049		1.97	2.26		ug/L		115	70 - 130	1	20
Terbacil	<0.099	^3+	1.97	2.45		ug/L		124	70 - 130	2	20
Terbutylazine	<0.099		1.97	2.40		ug/L		122	70 - 130	1	20
Thiobencarb	<0.099		1.97	2.07		ug/L		105	70 - 130	1	20
trans-Nonachlor	<0.049		1.97	1.89		ug/L		96	70 - 130	0	20
Trifluralin	<0.099		1.97	2.27		ug/L		115	70 - 130	1	20
1-Methylnaphthalene	<0.099		1.97	1.95		ug/L		98	70 - 130	2	20
2-Methylnaphthalene	<0.099		1.97	1.95		ug/L		98	70 - 130	3	20

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
2-Nitro-m-xylene	103		70 - 130
Perylene-d12	93		70 - 130
Triphenylphosphate	107		70 - 130

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

**Lab Sample ID: MB 570-643951/1-A**  
**Matrix: Water**  
**Analysis Batch: 651838**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 643951**

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	10/21/25 14:33	11/05/25 21:57	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2,4,6-Tribromophenol (Surr)	82		33 - 139	10/21/25 14:33	11/05/25 21:57	1
2-Fluorobiphenyl (Surr)	88		33 - 126	10/21/25 14:33	11/05/25 21:57	1
2-Fluorophenol (Surr)	54		12 - 120	10/21/25 14:33	11/05/25 21:57	1
Nitrobenzene-d5 (Surr)	88		36 - 120	10/21/25 14:33	11/05/25 21:57	1
Phenol-d6 (Surr)	33		10 - 120	10/21/25 14:33	11/05/25 21:57	1
p-Terphenyl-d14 (Surr)	92		47 - 131	10/21/25 14:33	11/05/25 21:57	1

Eurofins Eaton Analytical Pomona

# QC Sample Results

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

Job ID: 380-177798-1  
 SDG: Quarterly: Ka'amilo Wells P2

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

**Lab Sample ID: MB 570-643951/1-A**  
**Matrix: Water**  
**Analysis Batch: 649432**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 643951**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.20		0.20	ug/L		10/21/25 14:33	10/31/25 20:15	1
2,4,5-Trichlorophenol	<5.0		5.0	ug/L		10/21/25 14:33	10/31/25 20:15	1
2,4,6-Trichlorophenol	<1.0		1.0	ug/L		10/21/25 14:33	10/31/25 20:15	1
2,4-Dichlorophenol	<1.0		1.0	ug/L		10/21/25 14:33	10/31/25 20:15	1
2,4-Dinitrophenol	<5.0		5.0	ug/L		10/21/25 14:33	10/31/25 20:15	1
2,6-Dichlorophenol	<5.0		5.0	ug/L		10/21/25 14:33	10/31/25 20:15	1
2-Chloronaphthalene	<0.20		0.20	ug/L		10/21/25 14:33	10/31/25 20:15	1
2-Chlorophenol	<0.20		0.20	ug/L		10/21/25 14:33	10/31/25 20:15	1
2-Methylnaphthalene	<0.20		0.20	ug/L		10/21/25 14:33	10/31/25 20:15	1
2-Methylphenol	<1.0		1.0	ug/L		10/21/25 14:33	10/31/25 20:15	1
2-Nitroaniline	<5.0		5.0	ug/L		10/21/25 14:33	10/31/25 20:15	1
2-Nitrophenol	<5.0		5.0	ug/L		10/21/25 14:33	10/31/25 20:15	1
3/4-Methylphenol	<2.0		2.0	ug/L		10/21/25 14:33	10/31/25 20:15	1
3-Nitroaniline	<5.0		5.0	ug/L		10/21/25 14:33	10/31/25 20:15	1
4,6-Dinitro-2-methylphenol	<5.0		5.0	ug/L		10/21/25 14:33	10/31/25 20:15	1
4-Bromophenyl phenyl ether	<0.20		0.20	ug/L		10/21/25 14:33	10/31/25 20:15	1
4-Chloro-3-methylphenol	<1.0		1.0	ug/L		10/21/25 14:33	10/31/25 20:15	1
4-Chloroaniline	<5.0		5.0	ug/L		10/21/25 14:33	10/31/25 20:15	1
4-Chlorophenyl phenyl ether	<0.20		0.20	ug/L		10/21/25 14:33	10/31/25 20:15	1
4-Nitroaniline	<5.0		5.0	ug/L		10/21/25 14:33	10/31/25 20:15	1
4-Nitrophenol	<5.0		5.0	ug/L		10/21/25 14:33	10/31/25 20:15	1
Acenaphthene	<0.20		0.20	ug/L		10/21/25 14:33	10/31/25 20:15	1
Acenaphthylene	<0.20		0.20	ug/L		10/21/25 14:33	10/31/25 20:15	1
Aniline	<0.20		0.20	ug/L		10/21/25 14:33	10/31/25 20:15	1
Anthracene	<0.20		0.20	ug/L		10/21/25 14:33	10/31/25 20:15	1
Benzidine	<5.0		5.0	ug/L		10/21/25 14:33	10/31/25 20:15	1
Benzo[a]anthracene	<0.20		0.20	ug/L		10/21/25 14:33	10/31/25 20:15	1
Benzo[a]pyrene	<0.20		0.20	ug/L		10/21/25 14:33	10/31/25 20:15	1
Benzo[b]fluoranthene	<0.20		0.20	ug/L		10/21/25 14:33	10/31/25 20:15	1
Benzo[g,h,i]perylene	<0.20		0.20	ug/L		10/21/25 14:33	10/31/25 20:15	1
Benzo[k]fluoranthene	<0.20		0.20	ug/L		10/21/25 14:33	10/31/25 20:15	1
Benzoic acid	<10		10	ug/L		10/21/25 14:33	10/31/25 20:15	1
Benzyl alcohol	<1.0		1.0	ug/L		10/21/25 14:33	10/31/25 20:15	1
Bis(2-chloroethoxy)methane	<0.20		0.20	ug/L		10/21/25 14:33	10/31/25 20:15	1
Bis(2-chloroethyl)ether	<0.20		0.20	ug/L		10/21/25 14:33	10/31/25 20:15	1
bis (2-Chloroisopropyl) ether	<0.20		0.20	ug/L		10/21/25 14:33	10/31/25 20:15	1
Chrysene	<0.20		0.20	ug/L		10/21/25 14:33	10/31/25 20:15	1
Dibenz(a,h)anthracene	<0.20		0.20	ug/L		10/21/25 14:33	10/31/25 20:15	1
Dibenzofuran	<0.20		0.20	ug/L		10/21/25 14:33	10/31/25 20:15	1
Fluoranthene	<0.20		0.20	ug/L		10/21/25 14:33	10/31/25 20:15	1
Fluorene	<0.20		0.20	ug/L		10/21/25 14:33	10/31/25 20:15	1
Hexachloroethane	<0.20		0.20	ug/L		10/21/25 14:33	10/31/25 20:15	1
Indeno[1,2,3-cd]pyrene	<0.20		0.20	ug/L		10/21/25 14:33	10/31/25 20:15	1
Naphthalene	<0.20		0.20	ug/L		10/21/25 14:33	10/31/25 20:15	1
Nitrobenzene	<0.20		0.20	ug/L		10/21/25 14:33	10/31/25 20:15	1
N-Nitrosodi-n-propylamine	<0.20		0.20	ug/L		10/21/25 14:33	10/31/25 20:15	1
N-Nitrosodiphenylamine	<0.20		0.20	ug/L		10/21/25 14:33	10/31/25 20:15	1
Pentachlorophenol	<1.0		1.0	ug/L		10/21/25 14:33	10/31/25 20:15	1

Eurofins Eaton Analytical Pomona

# QC Sample Results

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

Job ID: 380-177798-1  
SDG: Quarterly: Ka'amilo Wells P2

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

**Lab Sample ID: MB 570-643951/1-A**  
**Matrix: Water**  
**Analysis Batch: 649432**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 643951**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	<0.20		0.20	ug/L		10/21/25 14:33	10/31/25 20:15	1
Phenol	<1.0		1.0	ug/L		10/21/25 14:33	10/31/25 20:15	1
Pyrene	<0.20		0.20	ug/L		10/21/25 14:33	10/31/25 20:15	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	94		28 - 127	10/21/25 14:33	10/31/25 20:15	1
2-Fluorobiphenyl (Surr)	80		31 - 120	10/21/25 14:33	10/31/25 20:15	1
2-Fluorophenol (Surr)	46		17 - 120	10/21/25 14:33	10/31/25 20:15	1
Nitrobenzene-d5 (Surr)	83		27 - 120	10/21/25 14:33	10/31/25 20:15	1
Phenol-d6 (Surr)	32		10 - 120	10/21/25 14:33	10/31/25 20:15	1
p-Terphenyl-d14 (Surr)	89		45 - 120	10/21/25 14:33	10/31/25 20:15	1

**Lab Sample ID: LCS 570-643951/2-A**  
**Matrix: Water**  
**Analysis Batch: 649432**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 643951**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	20.0	15.0		ug/L		75	47 - 120
2,4,5-Trichlorophenol	20.0	18.3		ug/L		91	57 - 120
2,4,6-Trichlorophenol	20.0	17.7		ug/L		88	52 - 129
2,4-Dichlorophenol	20.0	16.6		ug/L		83	53 - 122
2,4-Dinitrophenol	20.0	19.8		ug/L		99	1 - 173
2,6-Dichlorophenol	20.0	15.7		ug/L		78	50 - 120
2-Chloronaphthalene	20.0	18.4		ug/L		92	65 - 120
2-Chlorophenol	20.0	18.3		ug/L		92	36 - 120
2-Methylnaphthalene	20.0	14.9		ug/L		74	43 - 120
2-Methylphenol	20.0	16.8		ug/L		84	46 - 120
2-Nitroaniline	20.0	17.4		ug/L		87	51 - 125
2-Nitrophenol	20.0	15.5		ug/L		77	45 - 167
3/4-Methylphenol	40.0	30.5		ug/L		76	29 - 120
3-Nitroaniline	20.0	16.1		ug/L		80	62 - 129
4,6-Dinitro-2-methylphenol	20.0	18.3		ug/L		91	53 - 130
4-Bromophenyl phenyl ether	20.0	17.4		ug/L		87	65 - 120
4-Chloro-3-methylphenol	20.0	15.8		ug/L		79	41 - 128
4-Chloroaniline	20.0	10.7		ug/L		53	51 - 120
4-Chlorophenyl phenyl ether	20.0	17.5		ug/L		88	38 - 145
4-Nitroaniline	20.0	17.2		ug/L		86	64 - 129
4-Nitrophenol	20.0	9.53		ug/L		48	13 - 129
Acenaphthene	20.0	17.1		ug/L		86	60 - 132
Acenaphthylene	20.0	17.2		ug/L		86	54 - 126
Aniline	20.0	2.70	*-	ug/L		13	52 - 121
Anthracene	20.0	17.0		ug/L		85	43 - 120
Benzidine	20.0	<0.94	*-	ug/L		1	20 - 164
Benzo[a]anthracene	20.0	17.3		ug/L		86	42 - 133
Benzo[a]pyrene	20.0	18.3		ug/L		92	32 - 148
Benzo[b]fluoranthene	20.0	18.6		ug/L		93	42 - 140
Benzo[g,h,i]perylene	20.0	17.7		ug/L		89	1 - 195
Benzo[k]fluoranthene	20.0	18.7		ug/L		93	25 - 146

# QC Sample Results

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

Job ID: 380-177798-1  
SDG: Quarterly: Ka'amilo Wells P2

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

**Lab Sample ID: LCS 570-643951/2-A**  
**Matrix: Water**  
**Analysis Batch: 649432**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 643951**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzoic acid	20.0	5.82	J	ug/L		29	20 - 120
Benzyl alcohol	20.0	15.4		ug/L		77	44 - 122
Bis(2-chloroethoxy)methane	20.0	15.8		ug/L		79	49 - 165
Bis(2-chloroethyl)ether	20.0	18.5		ug/L		92	43 - 126
bis (2-Chloroisopropyl) ether	20.0	19.1		ug/L		95	63 - 139
Chrysene	20.0	18.0		ug/L		90	44 - 140
Dibenz(a,h)anthracene	20.0	19.3		ug/L		96	1 - 200
Dibenzofuran	20.0	17.6		ug/L		88	48 - 120
Fluoranthene	20.0	18.2		ug/L		91	43 - 121
Fluorene	20.0	17.5		ug/L		88	70 - 120
Hexachloroethane	20.0	15.7		ug/L		79	55 - 120
Indeno[1,2,3-cd]pyrene	20.0	18.4		ug/L		92	1 - 151
Naphthalene	20.0	14.2		ug/L		71	36 - 120
Nitrobenzene	20.0	15.5		ug/L		77	54 - 158
N-Nitrosodi-n-propylamine	20.0	14.8		ug/L		74	14 - 198
N-Nitrosodiphenylamine	20.0	18.4		ug/L		92	65 - 133
Pentachlorophenol	20.0	21.3		ug/L		106	38 - 152
Phenanthrene	20.0	17.5		ug/L		88	65 - 120
Phenol	20.0	8.36		ug/L		42	17 - 120
Pyrene	20.0	18.0		ug/L		90	70 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	84		28 - 127
2-Fluorobiphenyl (Surr)	81		31 - 120
2-Fluorophenol (Surr)	61		17 - 120
Nitrobenzene-d5 (Surr)	72		27 - 120
Phenol-d6 (Surr)	38		10 - 120
p-Terphenyl-d14 (Surr)	83		45 - 120

**Lab Sample ID: LCSD 570-643951/3-A**  
**Matrix: Water**  
**Analysis Batch: 649432**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 643951**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	20.0	14.0		ug/L		70	47 - 120	7	20
2,4,5-Trichlorophenol	20.0	17.1		ug/L		85	57 - 120	7	20
2,4,6-Trichlorophenol	20.0	16.2		ug/L		81	52 - 129	8	35
2,4-Dichlorophenol	20.0	15.5		ug/L		78	53 - 122	6	30
2,4-Dinitrophenol	20.0	17.8		ug/L		89	1 - 173	11	79
2,6-Dichlorophenol	20.0	14.6		ug/L		73	50 - 120	7	20
2-Chloronaphthalene	20.0	17.0		ug/L		85	65 - 120	8	15
2-Chlorophenol	20.0	17.4		ug/L		87	36 - 120	5	37
2-Methylnaphthalene	20.0	14.0		ug/L		70	43 - 120	6	20
2-Methylphenol	20.0	16.0		ug/L		80	46 - 120	5	20
2-Nitroaniline	20.0	17.3		ug/L		86	51 - 125	1	20
2-Nitrophenol	20.0	14.5		ug/L		73	45 - 167	6	33
3/4-Methylphenol	40.0	29.0		ug/L		72	29 - 120	5	20
3-Nitroaniline	20.0	16.1		ug/L		81	62 - 129	0	20

Eurofins Eaton Analytical Pomona

# QC Sample Results

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

Job ID: 380-177798-1  
SDG: Quarterly: Ka'amilo Wells P2

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

**Lab Sample ID: LCSD 570-643951/3-A**  
**Matrix: Water**  
**Analysis Batch: 649432**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 643951**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
4,6-Dinitro-2-methylphenol	20.0	17.2		ug/L		86	53 - 130	6	122	
4-Bromophenyl phenyl ether	20.0	15.9		ug/L		79	65 - 120	9	26	
4-Chloro-3-methylphenol	20.0	14.8		ug/L		74	41 - 128	7	44	
4-Chloroaniline	20.0	12.6		ug/L		63	51 - 120	17	20	
4-Chlorophenyl phenyl ether	20.0	16.2		ug/L		81	38 - 145	7	36	
4-Nitroaniline	20.0	17.0		ug/L		85	64 - 129	1	20	
4-Nitrophenol	20.0	9.33		ug/L		47	13 - 129	2	79	
Acenaphthene	20.0	15.9		ug/L		80	60 - 132	7	29	
Acenaphthylene	20.0	16.2		ug/L		81	54 - 126	6	45	
Aniline	20.0	4.79	*- *1	ug/L		24	52 - 121	56	21	
Anthracene	20.0	16.0		ug/L		80	43 - 120	6	40	
Benzidine	20.0	<0.94	*- *1	ug/L		0	20 - 164	200	30	
Benzo[a]anthracene	20.0	16.1		ug/L		80	42 - 133	7	32	
Benzo[a]pyrene	20.0	17.3		ug/L		86	32 - 148	6	43	
Benzo[b]fluoranthene	20.0	17.3		ug/L		86	42 - 140	8	43	
Benzo[g,h,i]perylene	20.0	17.2		ug/L		86	1 - 195	3	61	
Benzo[k]fluoranthene	20.0	17.5		ug/L		88	25 - 146	7	38	
Benzoic acid	20.0	4.79	J	ug/L		24	20 - 120	19	30	
Benzyl alcohol	20.0	14.2		ug/L		71	44 - 122	8	20	
Bis(2-chloroethoxy)methane	20.0	15.1		ug/L		75	49 - 165	5	32	
Bis(2-chloroethyl)ether	20.0	18.0		ug/L		90	43 - 126	3	65	
bis (2-Chloroisopropyl) ether	20.0	17.9		ug/L		89	63 - 139	6	46	
Chrysene	20.0	17.0		ug/L		85	44 - 140	6	53	
Dibenz(a,h)anthracene	20.0	18.7		ug/L		93	1 - 200	3	75	
Dibenzofuran	20.0	16.5		ug/L		83	48 - 120	6	20	
Fluoranthene	20.0	17.2		ug/L		86	43 - 121	6	40	
Fluorene	20.0	16.4		ug/L		82	70 - 120	7	23	
Hexachloroethane	20.0	14.8		ug/L		74	55 - 120	7	32	
Indeno[1,2,3-cd]pyrene	20.0	17.5		ug/L		88	1 - 151	5	60	
Naphthalene	20.0	13.3		ug/L		67	36 - 120	6	39	
Nitrobenzene	20.0	14.6		ug/L		73	54 - 158	6	37	
N-Nitrosodi-n-propylamine	20.0	15.0		ug/L		75	14 - 198	2	52	
N-Nitrosodiphenylamine	20.0	17.9		ug/L		90	65 - 133	2	20	
Pentachlorophenol	20.0	19.0		ug/L		95	38 - 152	11	52	
Phenanthrene	20.0	16.3		ug/L		81	65 - 120	7	24	
Phenol	20.0	7.96		ug/L		40	17 - 120	5	39	
Pyrene	20.0	16.5		ug/L		83	70 - 120	8	30	

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	72		28 - 127
2-Fluorobiphenyl (Surr)	74		31 - 120
2-Fluorophenol (Surr)	54		17 - 120
Nitrobenzene-d5 (Surr)	66		27 - 120
Phenol-d6 (Surr)	35		10 - 120
p-Terphenyl-d14 (Surr)	75		45 - 120

# QC Sample Results

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

Job ID: 380-177798-1  
SDG: Quarterly: Ka'amilo Wells P2

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

**Lab Sample ID: 380-178070-A-1-A MS**  
**Matrix: Water**  
**Analysis Batch: 649432**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**  
**Prep Batch: 643951**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
1-Methylnaphthalene	<0.19		19.2	13.9		ug/L		72	36 - 120
2,4,5-Trichlorophenol	<4.8		19.2	16.5		ug/L		86	21 - 145
2,4,6-Trichlorophenol	<0.96		19.2	15.9		ug/L		83	37 - 144
2,4-Dichlorophenol	<0.96		19.2	15.0		ug/L		78	39 - 135
2,4-Dinitrophenol	<4.8		19.2	17.7		ug/L		92	1 - 191
2,6-Dichlorophenol	<4.8		19.2	14.4		ug/L		75	24 - 134
2-Chloronaphthalene	<0.19		19.2	16.6		ug/L		87	60 - 120
2-Chlorophenol	<0.19		19.2	16.0		ug/L		83	23 - 143
2-Methylnaphthalene	<0.19		19.2	13.9		ug/L		73	32 - 124
2-Methylphenol	<0.96		19.2	14.7		ug/L		76	10 - 135
2-Nitroaniline	<4.8		19.2	18.1		ug/L		94	10 - 147
2-Nitrophenol	<4.8		19.2	13.9		ug/L		72	29 - 182
3/4-Methylphenol	<1.9		38.4	25.1		ug/L		65	10 - 118
3-Nitroaniline	<4.8	F2	19.2	10.5		ug/L		55	10 - 153
4,6-Dinitro-2-methylphenol	<4.8		19.2	16.2		ug/L		84	1 - 181
4-Bromophenyl phenyl ether	<0.19		19.2	15.8		ug/L		82	53 - 127
4-Chloro-3-methylphenol	<0.96		19.2	13.8		ug/L		72	22 - 147
4-Chloroaniline	<4.8	F2	19.2	<4.8		ug/L		12	10 - 131
4-Chlorophenyl phenyl ether	<0.19		19.2	15.9		ug/L		83	25 - 158
4-Nitroaniline	<4.8		19.2	15.9		ug/L		83	10 - 180
4-Nitrophenol	<4.8		19.2	8.15		ug/L		42	1 - 132
Acenaphthene	<0.19		19.2	15.7		ug/L		82	47 - 145
Acenaphthylene	<0.19		19.2	15.2		ug/L		79	33 - 145
Aniline	0.19	*- *1 F1	19.2	<0.19	F1	ug/L		0	10 - 113
Anthracene	<0.19		19.2	14.9		ug/L		78	27 - 133
Benzidine	<4.8	*- *1 F1	19.2	<4.8	F1	ug/L		0	10 - 57
Benzo[a]anthracene	<0.19		19.2	15.1		ug/L		79	33 - 143
Benzo[a]pyrene	<0.19		19.2	15.2		ug/L		79	17 - 163
Benzo[b]fluoranthene	<0.19		19.2	16.0		ug/L		83	24 - 159
Benzo[g,h,i]perylene	<0.19		19.2	16.6		ug/L		86	1 - 219
Benzo[k]fluoranthene	<0.19		19.2	16.0		ug/L		84	11 - 162
Benzoic acid	<9.6		19.2	<9.6		ug/L		27	10 - 97
Benzyl alcohol	<0.96		19.2	11.3		ug/L		59	10 - 122
Bis(2-chloroethoxy)methane	<0.19		19.2	14.5		ug/L		75	33 - 184
Bis(2-chloroethyl)ether	<0.19		19.2	16.6		ug/L		87	12 - 158
bis (2-Chloroisopropyl) ether	<0.19		19.2	18.1		ug/L		94	36 - 166
Chrysene	<0.19		19.2	16.1		ug/L		84	17 - 168
Dibenz(a,h)anthracene	<0.19		19.2	17.8		ug/L		93	1 - 227
Dibenzofuran	<0.19		19.2	15.9		ug/L		83	42 - 111
Fluoranthene	<0.19		19.2	16.5		ug/L		86	26 - 137
Fluorene	<0.19		19.2	15.7		ug/L		82	59 - 121
Hexachloroethane	<0.19		19.2	14.6		ug/L		76	40 - 120
Indeno[1,2,3-cd]pyrene	<0.19		19.2	17.1		ug/L		89	1 - 171
Naphthalene	<0.19		19.2	13.4		ug/L		70	21 - 133
Nitrobenzene	<0.19		19.2	14.4		ug/L		75	35 - 180
N-Nitrosodi-n-propylamine	<0.19		19.2	16.2		ug/L		84	1 - 230
N-Nitrosodiphenylamine	<0.19		19.2	19.2		ug/L		100	10 - 179
Pentachlorophenol	<0.96		19.2	19.9		ug/L		104	14 - 176

# QC Sample Results

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

Job ID: 380-177798-1  
SDG: Quarterly: Ka'amilo Wells P2

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

**Lab Sample ID: 380-178070-A-1-A MS**  
**Matrix: Water**  
**Analysis Batch: 649432**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**  
**Prep Batch: 643951**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Phenanthrene	<0.19		19.2	15.9		ug/L		83	54 - 120
Phenol	<0.96		19.2	6.64		ug/L		35	5 - 120
Pyrene	<0.19		19.2	15.7		ug/L		82	52 - 120

Surrogate	MS %Recovery	MS Qualifier	MS Limits
2,4,6-Tribromophenol (Surr)	86		28 - 127
2-Fluorobiphenyl (Surr)	86		31 - 120
2-Fluorophenol (Surr)	51		17 - 120
Nitrobenzene-d5 (Surr)	77		27 - 120
Phenol-d6 (Surr)	33		10 - 120
p-Terphenyl-d14 (Surr)	82		45 - 120

**Lab Sample ID: 380-178070-A-1-B MSD**  
**Matrix: Water**  
**Analysis Batch: 649432**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 643951**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	<0.19		19.4	13.8		ug/L		71	36 - 120	0	30
2,4,5-Trichlorophenol	<4.8		19.4	16.9		ug/L		87	21 - 145	3	30
2,4,6-Trichlorophenol	<0.96		19.4	16.4		ug/L		85	37 - 144	3	58
2,4-Dichlorophenol	<0.96		19.4	15.1		ug/L		78	39 - 135	1	50
2,4-Dinitrophenol	<4.8		19.4	18.6		ug/L		96	1 - 191	5	132
2,6-Dichlorophenol	<4.8		19.4	14.3		ug/L		74	24 - 134	0	30
2-Chloronaphthalene	<0.19		19.4	16.9		ug/L		88	60 - 120	2	24
2-Chlorophenol	<0.19		19.4	16.1		ug/L		83	23 - 143	1	61
2-Methylnaphthalene	<0.19		19.4	13.9		ug/L		72	32 - 124	1	30
2-Methylphenol	<0.96		19.4	15.0		ug/L		77	10 - 135	2	30
2-Nitroaniline	<4.8		19.4	19.0		ug/L		98	10 - 147	5	30
2-Nitrophenol	<4.8		19.4	13.9		ug/L		72	29 - 182	0	55
3/4-Methylphenol	<1.9		38.7	25.7		ug/L		66	10 - 118	2	30
3-Nitroaniline	<4.8	F2	19.4	15.2	F2	ug/L		79	10 - 153	37	30
4,6-Dinitro-2-methylphenol	<4.8		19.4	16.7		ug/L		86	1 - 181	3	203
4-Bromophenyl phenyl ether	<0.19		19.4	15.9		ug/L		82	53 - 127	1	43
4-Chloro-3-methylphenol	<0.96		19.4	13.7		ug/L		71	22 - 147	1	73
4-Chloroaniline	<4.8	F2	19.4	9.60	F2	ug/L		50	10 - 131	122	30
4-Chlorophenyl phenyl ether	<0.19		19.4	16.0		ug/L		83	25 - 158	1	61
4-Nitroaniline	<4.8		19.4	16.4		ug/L		85	10 - 180	3	30
4-Nitrophenol	<4.8		19.4	8.16		ug/L		42	1 - 132	0	131
Acenaphthene	<0.19		19.4	15.9		ug/L		82	47 - 145	1	48
Acenaphthylene	<0.19		19.4	15.8		ug/L		81	33 - 145	4	74
Aniline	0.19	*- *1 F1	19.4	2.04		ug/L		10	10 - 113	NC	30
Anthracene	<0.19		19.4	15.3		ug/L		79	27 - 133	3	66
Benzidine	<4.8	*- *1 F1	19.4	<4.8	F1	ug/L		0	10 - 57	NC	30
Benzo[a]anthracene	<0.19		19.4	15.7		ug/L		81	33 - 143	4	53
Benzo[a]pyrene	<0.19		19.4	16.2		ug/L		84	17 - 163	6	72
Benzo[b]fluoranthene	<0.19		19.4	16.3		ug/L		84	24 - 159	2	71
Benzo[g,h,i]perylene	<0.19		19.4	16.4		ug/L		85	1 - 219	1	97
Benzo[k]fluoranthene	<0.19		19.4	16.5		ug/L		85	11 - 162	3	63

# QC Sample Results

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

Job ID: 380-177798-1  
SDG: Quarterly: Ka'amilo Wells P2

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

**Lab Sample ID: 380-178070-A-1-B MSD**

**Client Sample ID: Matrix Spike Duplicate**

**Matrix: Water**

**Prep Type: Total/NA**

**Analysis Batch: 649432**

**Prep Batch: 643951**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		
Benzoic acid	<9.6		19.4	<9.7		ug/L		28	10 - 97	2	30
Benzyl alcohol	<0.96		19.4	11.7		ug/L		60	10 - 122	3	30
Bis(2-chloroethoxy)methane	<0.19		19.4	14.4		ug/L		74	33 - 184	1	54
Bis(2-chloroethyl)ether	<0.19		19.4	16.7		ug/L		86	12 - 158	1	108
bis (2-Chloroisopropyl) ether	<0.19		19.4	17.6		ug/L		91	36 - 166	3	76
Chrysene	<0.19		19.4	16.4		ug/L		85	17 - 168	2	87
Dibenz(a,h)anthracene	<0.19		19.4	17.5		ug/L		91	1 - 227	2	126
Dibenzofuran	<0.19		19.4	16.2		ug/L		84	42 - 111	1	30
Fluoranthene	<0.19		19.4	16.6		ug/L		86	26 - 137	1	66
Fluorene	<0.19		19.4	16.0		ug/L		83	59 - 121	2	38
Hexachloroethane	<0.19		19.4	14.4		ug/L		74	40 - 120	1	52
Indeno[1,2,3-cd]pyrene	<0.19		19.4	16.9		ug/L		88	1 - 171	1	99
Naphthalene	<0.19		19.4	13.3		ug/L		69	21 - 133	1	65
Nitrobenzene	<0.19		19.4	14.2		ug/L		74	35 - 180	1	62
N-Nitrosodi-n-propylamine	<0.19		19.4	16.0		ug/L		83	1 - 230	1	87
N-Nitrosodiphenylamine	<0.19		19.4	20.2		ug/L		104	10 - 179	5	30
Pentachlorophenol	<0.96		19.4	20.3		ug/L		105	14 - 176	2	86
Phenanthrene	<0.19		19.4	16.0		ug/L		83	54 - 120	1	39
Phenol	<0.96		19.4	6.51		ug/L		34	5 - 120	2	64
Pyrene	<0.19		19.4	16.6		ug/L		86	52 - 120	6	49

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	88		28 - 127
2-Fluorobiphenyl (Surr)	88		31 - 120
2-Fluorophenol (Surr)	52		17 - 120
Nitrobenzene-d5 (Surr)	76		27 - 120
Phenol-d6 (Surr)	33		10 - 120
p-Terphenyl-d14 (Surr)	85		45 - 120

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

**Lab Sample ID: MB 570-646186/35**

**Client Sample ID: Method Blank**

**Matrix: Water**

**Prep Type: Total/NA**

**Analysis Batch: 646186**

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
GRO (C6-C10)	<10		10	ug/L			10/25/25 23:33	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	78		38 - 134		10/25/25 23:33	1

**Lab Sample ID: LCS 570-646186/33**

**Client Sample ID: Lab Control Sample**

**Matrix: Water**

**Prep Type: Total/NA**

**Analysis Batch: 646186**

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec
		Result	Qualifier				Limits
Gasoline Range Organics (C4-C13)	400	384		ug/L		96	78 - 120

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# QC Sample Results

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

Job ID: 380-177798-1  
SDG: Quarterly: Ka'amilo Wells P2

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

**Lab Sample ID: LCS 570-646186/33**  
**Matrix: Water**  
**Analysis Batch: 646186**

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

<u>Surrogate</u>	<u>LCS</u> <u>%Recovery</u>	<u>LCS</u> <u>Qualifier</u>	<u>Limits</u>
4-Bromofluorobenzene (Surr)	85		38 - 134

**Lab Sample ID: LCSD 570-646186/34**  
**Matrix: Water**  
**Analysis Batch: 646186**

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

<u>Analyte</u>	<u>Spike</u> <u>Added</u>	<u>LCSD</u> <u>Result</u>	<u>LCSD</u> <u>Qualifier</u>	<u>Unit</u>	<u>D</u>	<u>%Rec</u>	<u>%Rec</u> <u>Limits</u>	<u>RPD</u>	<u>RPD</u> <u>Limit</u>
Gasoline Range Organics (C4-C13)	400	370		ug/L		92	78 - 120	4	10

<u>Surrogate</u>	<u>LCSD</u> <u>%Recovery</u>	<u>LCSD</u> <u>Qualifier</u>	<u>Limits</u>
4-Bromofluorobenzene (Surr)	82		38 - 134

**Lab Sample ID: MRL 570-646186/32**  
**Matrix: Water**  
**Analysis Batch: 646186**

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

<u>Analyte</u>	<u>Spike</u> <u>Added</u>	<u>MRL</u> <u>Result</u>	<u>MRL</u> <u>Qualifier</u>	<u>Unit</u>	<u>D</u>	<u>%Rec</u>	<u>%Rec</u> <u>Limits</u>
Gasoline Range Organics (C4-C13)	10.0	8.21	J	ug/L		82	50 - 150

<u>Surrogate</u>	<u>MRL</u> <u>%Recovery</u>	<u>MRL</u> <u>Qualifier</u>	<u>Limits</u>
4-Bromofluorobenzene (Surr)	78		38 - 134

**Lab Sample ID: 380-178571-C-1 MS**  
**Matrix: Water**  
**Analysis Batch: 646186**

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

<u>Analyte</u>	<u>Sample</u> <u>Result</u>	<u>Sample</u> <u>Qualifier</u>	<u>Spike</u> <u>Added</u>	<u>MS</u> <u>Result</u>	<u>MS</u> <u>Qualifier</u>	<u>Unit</u>	<u>D</u>	<u>%Rec</u>	<u>%Rec</u> <u>Limits</u>
Gasoline Range Organics (C4-C13)	<10		400	382		ug/L		96	68 - 122

<u>Surrogate</u>	<u>MS</u> <u>%Recovery</u>	<u>MS</u> <u>Qualifier</u>	<u>Limits</u>
4-Bromofluorobenzene (Surr)	83		38 - 134

**Lab Sample ID: 380-178571-C-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 646186**

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

<u>Analyte</u>	<u>Sample</u> <u>Result</u>	<u>Sample</u> <u>Qualifier</u>	<u>Spike</u> <u>Added</u>	<u>MSD</u> <u>Result</u>	<u>MSD</u> <u>Qualifier</u>	<u>Unit</u>	<u>D</u>	<u>%Rec</u>	<u>%Rec</u> <u>Limits</u>	<u>RPD</u>	<u>RPD</u> <u>Limit</u>
Gasoline Range Organics (C4-C13)	<10		400	378		ug/L		95	68 - 122	1	18

<u>Surrogate</u>	<u>MSD</u> <u>%Recovery</u>	<u>MSD</u> <u>Qualifier</u>	<u>Limits</u>
4-Bromofluorobenzene (Surr)	87		38 - 134

# QC Sample Results

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

Job ID: 380-177798-1  
SDG: Quarterly: Ka'amilo Wells P2

## Method: 504.1 - EDB, DBCP and 1,2,3-TCP (GC)

**Lab Sample ID: MBL 380-181489/4-A**  
**Matrix: Water**  
**Analysis Batch: 181825**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 181489**

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	<0.0040		0.020	ug/L		10/22/25 16:02	10/22/25 19:14	1
1,2-Dibromo-3-Chloropropane	<0.0020		0.010	ug/L		10/22/25 16:02	10/22/25 19:14	1
1,2-Dibromoethane	<0.0040		0.010	ug/L		10/22/25 16:02	10/22/25 19:14	1
Surrogate	MBL %Recovery	MBL Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dibromopropane (Surr)	108		60 - 140			10/22/25 16:02	10/22/25 19:14	1

**Lab Sample ID: LCS 380-181489/29-A**  
**Matrix: Water**  
**Analysis Batch: 181825**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 181489**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,3-Trichloropropane	0.200	0.201		ug/L		100	70 - 130
1,2-Dibromo-3-Chloropropane	0.200	0.186		ug/L		93	70 - 130
1,2-Dibromoethane	0.200	0.196		ug/L		98	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1,2-Dibromopropane (Surr)	105		60 - 140				

**Lab Sample ID: MRL 380-181489/2-A**  
**Matrix: Water**  
**Analysis Batch: 181825**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 181489**

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1,2,3-Trichloropropane	0.0200	0.0184	J	ug/L		92	60 - 140
Surrogate	MRL %Recovery	MRL Qualifier	Limits				
1,2-Dibromopropane (Surr)	91		60 - 140				

**Lab Sample ID: MRL 380-181489/3-A**  
**Matrix: Water**  
**Analysis Batch: 181825**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 181489**

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1,2,3-Trichloropropane	0.0500	0.0505		ug/L		101	60 - 140
1,2-Dibromo-3-Chloropropane	0.0100	0.00984	J	ug/L		98	60 - 140
1,2-Dibromoethane	0.0100	0.0104		ug/L		104	60 - 140
Surrogate	MRL %Recovery	MRL Qualifier	Limits				
1,2-Dibromopropane (Surr)	97		60 - 140				

**Lab Sample ID: 380-178037-BW-1-A MS**  
**Matrix: Water**  
**Analysis Batch: 181825**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**  
**Prep Batch: 181489**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,3-Trichloropropane	<0.020		1.28	1.25		ug/L		98	65 - 135

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# QC Sample Results

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

Job ID: 380-177798-1  
SDG: Quarterly: Ka'amilo Wells P2

## Method: 504.1 - EDB, DBCP and 1,2,3-TCP (GC) (Continued)

**Lab Sample ID: 380-178037-BW-1-A MS**  
**Matrix: Water**  
**Analysis Batch: 181825**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**  
**Prep Batch: 181489**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec
	Result	Qualifier		Result	Qualifier				
1,2-Dibromo-3-Chloropropane	<0.010		0.256	0.239		ug/L		93	65 - 135
1,2-Dibromoethane	<0.010		0.256	0.251		ug/L		98	65 - 135
<b>MS MS</b>									
Surrogate	%Recovery	Qualifier	Limits						
1,2-Dibromopropane (Surr)	99		60 - 140						

**Lab Sample ID: 380-178038-BV-1-A DU**  
**Matrix: Water**  
**Analysis Batch: 181825**

**Client Sample ID: Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 181489**

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier		Result				
1,2,3-Trichloropropane	<0.020		<0.020		ug/L		NC	20
1,2-Dibromo-3-Chloropropane	<0.010		<0.0099		ug/L		NC	20
1,2-Dibromoethane	<0.010		<0.0099		ug/L		NC	20
<b>DU DU</b>								
Surrogate	%Recovery	Qualifier	Limits					
1,2-Dibromopropane (Surr)	99		60 - 140					

## Method: 505 - Organochlorine Pesticides/PCBs (GC)

**Lab Sample ID: MB 380-181362/3-A**  
**Matrix: Water**  
**Analysis Batch: 181765**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 181362**

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Toxaphene	<0.50		0.50	ug/L		10/22/25 13:02	10/23/25 02:33	1
Chlordane (n.o.s.)	<0.10		0.10	ug/L		10/22/25 13:02	10/23/25 02:33	1
PCB-1016	<0.070		0.070	ug/L		10/22/25 13:02	10/23/25 02:33	1
PCB-1221	<0.10		0.10	ug/L		10/22/25 13:02	10/23/25 02:33	1
PCB-1232	<0.10		0.10	ug/L		10/22/25 13:02	10/23/25 02:33	1
PCB-1242	<0.10		0.10	ug/L		10/22/25 13:02	10/23/25 02:33	1
PCB-1248	<0.10		0.10	ug/L		10/22/25 13:02	10/23/25 02:33	1
PCB-1254	<0.10		0.10	ug/L		10/22/25 13:02	10/23/25 02:33	1
PCB-1260	<0.070		0.070	ug/L		10/22/25 13:02	10/23/25 02:33	1
Polychlorinated biphenyls, Total	<0.10		0.10	ug/L		10/22/25 13:02	10/23/25 02:33	1
<b>MB MB</b>								
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
Tetrachloro-m-xylene	94		70 - 130	10/22/25 13:02	10/23/25 02:33	1		

**Lab Sample ID: LCS 380-181362/28-A**  
**Matrix: Water**  
**Analysis Batch: 181765**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 181362**

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec
		Added	Result				
Toxaphene	2.50	2.92		ug/L		117	70 - 130
<b>LCS LCS</b>							
Surrogate	%Recovery	Qualifier	Limits				
Tetrachloro-m-xylene	101		70 - 130				

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# QC Sample Results

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

Job ID: 380-177798-1  
SDG: Quarterly: Ka'amilo Wells P2

## Method: 505 - Organochlorine Pesticides/PCBs (GC)

**Lab Sample ID: LCS 380-181362/30-A**  
**Matrix: Water**  
**Analysis Batch: 181765**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 181362**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chlordane (n.o.s.)	0.500	0.570		ug/L		114	70 - 130
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCS Qualifier</b>	<b>Limits</b>				
Tetrachloro-m-xylene	104		70 - 130				

**Lab Sample ID: LCS 380-181362/31-A**  
**Matrix: Water**  
**Analysis Batch: 181765**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 181362**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1221	0.500	0.596		ug/L		119	70 - 130
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCS Qualifier</b>	<b>Limits</b>				
Tetrachloro-m-xylene	102		70 - 130				

**Lab Sample ID: LCSD 380-181362/29-A**  
**Matrix: Water**  
**Analysis Batch: 181765**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 181362**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toxaphene	2.50	2.82		ug/L		113	70 - 130	3	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCSD Qualifier</b>	<b>Limits</b>						
Tetrachloro-m-xylene	99		70 - 130						

**Lab Sample ID: MRL 380-181362/1-A**  
**Matrix: Water**  
**Analysis Batch: 181765**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 181362**

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Toxaphene	0.500	0.605		ug/L		121	50 - 150
<b>Surrogate</b>	<b>%Recovery</b>	<b>MRL Qualifier</b>	<b>Limits</b>				
Tetrachloro-m-xylene	106		70 - 130				

**Lab Sample ID: MRL 380-181362/2-A**  
**Matrix: Water**  
**Analysis Batch: 181765**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 181362**

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Chlordane (n.o.s.)	0.100	0.110		ug/L		110	50 - 150
<b>Surrogate</b>	<b>%Recovery</b>	<b>MRL Qualifier</b>	<b>Limits</b>				
Tetrachloro-m-xylene	101		70 - 130				

# QC Sample Results

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

Job ID: 380-177798-1  
SDG: Quarterly: Ka'amilo Wells P2

## Method: 505 - Organochlorine Pesticides/PCBs (GC) (Continued)

**Lab Sample ID: 380-178190-C-1-A MS**  
**Matrix: Water**  
**Analysis Batch: 181765**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**  
**Prep Batch: 181362**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier					
Toxaphene	<0.50		2.51	2.68		ug/L		106		65 - 135
Surrogate	MS	MS	MS	MS	MS					
%Recovery	Qualifier	Qualifier	Limits							
Tetrachloro-m-xylene	93		70 - 130							

**Lab Sample ID: 380-178190-D-1-A MS**  
**Matrix: Water**  
**Analysis Batch: 181765**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**  
**Prep Batch: 181362**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier					
Chlordane (n.o.s.)	<0.10		0.507	0.590		ug/L		116		65 - 135
Surrogate	MS	MS	MS	MS	MS					
%Recovery	Qualifier	Qualifier	Limits							
Tetrachloro-m-xylene	102		70 - 130							

**Lab Sample ID: 380-178190-G-2-A MS**  
**Matrix: Water**  
**Analysis Batch: 181765**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**  
**Prep Batch: 181362**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier					
Toxaphene	<0.50		2.54	2.94		ug/L		115		65 - 135
Surrogate	MS	MS	MS	MS	MS					
%Recovery	Qualifier	Qualifier	Limits							
Tetrachloro-m-xylene	102		70 - 130							

**Lab Sample ID: 380-178190-H-2-A MS**  
**Matrix: Water**  
**Analysis Batch: 181765**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**  
**Prep Batch: 181362**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier					
Chlordane (n.o.s.)	<0.10		0.513	0.600		ug/L		117		65 - 135
Surrogate	MS	MS	MS	MS	MS					
%Recovery	Qualifier	Qualifier	Limits							
Tetrachloro-m-xylene	102		70 - 130							

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

**Lab Sample ID: MB 570-644924/1-A**  
**Matrix: Water**  
**Analysis Batch: 648248**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 644924**

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Diesel Range Organics (C10-C24)	<25		25	ug/L		10/23/25 09:44	10/29/25 21:46	1
Motor Oil Range Organics [C24-C36]	<25		25	ug/L		10/23/25 09:44	10/29/25 21:46	1
C8-C18	<25		25	ug/L		10/23/25 09:44	10/29/25 21:46	1

Eurofins Eaton Analytical Pomona

# QC Sample Results

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

Job ID: 380-177798-1  
SDG: Quarterly: Ka'amilo Wells P2

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

**Lab Sample ID: MB 570-644924/1-A**  
**Matrix: Water**  
**Analysis Batch: 648248**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 644924**

		MB MB								
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac				
<i>n</i> -Octacosane (Surr)	98		60 - 130	10/23/25 09:44	10/29/25 21:46	1				

**Lab Sample ID: LCS 570-644924/2-A**  
**Matrix: Water**  
**Analysis Batch: 648248**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 644924**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
C10-C28	1600	1850		ug/L		115	56 - 127		
Surrogate	%Recovery	Qualifier	Limits						
<i>n</i> -Octacosane (Surr)	104		60 - 130						

**Lab Sample ID: LCSD 570-644924/3-A**  
**Matrix: Water**  
**Analysis Batch: 648248**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 644924**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
C10-C28	1600	1780		ug/L		111	56 - 127	4	23
Surrogate	%Recovery	Qualifier	Limits						
<i>n</i> -Octacosane (Surr)	99		60 - 130						

**Lab Sample ID: MRL 570-644924/4-A**  
**Matrix: Water**  
**Analysis Batch: 648248**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 644924**

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
C10-C28	0.0200	0.0309	^3+	mg/L		155	50 - 150		
Surrogate	%Recovery	Qualifier	Limits						
<i>n</i> -Octacosane (Surr)	109		60 - 130						

**Lab Sample ID: 380-178070-C-1-C MS**  
**Matrix: Water**  
**Analysis Batch: 648248**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**  
**Prep Batch: 644924**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
C10-C28	<26	^3+	1660	2060		ug/L		124	70 - 130
Surrogate	%Recovery	Qualifier	Limits						
<i>n</i> -Octacosane (Surr)	110		60 - 130						

# QC Sample Results

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

Job ID: 380-177798-1  
SDG: Quarterly: Ka'amilo Wells P2

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

**Lab Sample ID: 380-178070-C-1-D MSD**  
**Matrix: Water**  
**Analysis Batch: 648248**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 644924**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C10-C28	<26	^3+	1690	1970		ug/L		117	70 - 130	4	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>MSD Qualifier</b>	<b>Limits</b>								
<i>n-Octacosane (Surr)</i>	103		60 - 130								

## Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC)

**Lab Sample ID: MB 570-643985/3**  
**Matrix: Water**  
**Analysis Batch: 643985**

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Ethanol	<0.10	^3+	0.10	mg/L			10/21/25 19:08	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>MB Qualifier</b>	<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>Hexafluoro-2-propanol (Surr)</i>	96		54 - 120				10/21/25 19:08	1

**Lab Sample ID: LCS 570-643985/5**  
**Matrix: Water**  
**Analysis Batch: 643985**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ethanol	2.00	2.19		mg/L		109	78 - 131
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCS Qualifier</b>	<b>Limits</b>				
<i>Hexafluoro-2-propanol (Surr)</i>	100		54 - 120				

**Lab Sample ID: LCSD 570-643985/6**  
**Matrix: Water**  
**Analysis Batch: 643985**

**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
Ethanol	2.00	2.17		mg/L		109	78 - 131	1	25
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCSD Qualifier</b>	<b>Limits</b>						
<i>Hexafluoro-2-propanol (Surr)</i>	95		54 - 120						

**Lab Sample ID: MRL 570-643985/4**  
**Matrix: Water**  
**Analysis Batch: 643985**

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Ethanol	0.100	0.154	^3+	mg/L		154	50 - 150
<b>Surrogate</b>	<b>%Recovery</b>	<b>MRL Qualifier</b>	<b>Limits</b>				
<i>Hexafluoro-2-propanol (Surr)</i>	106		54 - 120				

# QC Sample Results

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

Job ID: 380-177798-1  
SDG: Quarterly: Ka'amilo Wells P2

## Method: 8015B - Nonhalogenated Organic Compounds - Direct Injection (GC) (Continued)

**Lab Sample ID: 380-177079-I-1 MS**  
**Matrix: Water**  
**Analysis Batch: 643985**

**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	
Ethanol	<0.10	^3+	2.00	2.17		mg/L		108	20 - 173	
<b>Surrogate</b>	<b>%Recovery</b>	<b>MS Qualifier</b>	<b>MS Limits</b>							
Hexafluoro-2-propanol (Surr)	94		54 - 120							

**Lab Sample ID: 380-177079-I-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 643985**

**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
Ethanol	<0.10	^3+	2.00	2.24		mg/L		112	20 - 173	3	21
<b>Surrogate</b>	<b>%Recovery</b>	<b>MSD Qualifier</b>	<b>MSD Limits</b>								
Hexafluoro-2-propanol (Surr)	95		54 - 120								

## Method: 300.0 - Anions, Ion Chromatography

**Lab Sample ID: MB 380-180636/4**  
**Matrix: Water**  
**Analysis Batch: 180636**

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.050		0.050	mg/L			10/17/25 08:53	1
Nitrite as N	<0.050		0.050	mg/L			10/17/25 08:53	1

**Lab Sample ID: LCS 380-180636/7**  
**Matrix: Water**  
**Analysis Batch: 180636**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	2.50	2.47		mg/L		99	90 - 110
Nitrite as N	1.00	0.922		mg/L		92	90 - 110

**Lab Sample ID: LCSD 380-180636/8**  
**Matrix: Water**  
**Analysis Batch: 180636**

**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
Nitrate as N	2.50	2.47		mg/L		99	90 - 110	0	20
Nitrite as N	1.00	0.923		mg/L		92	90 - 110	0	20

**Lab Sample ID: MRL 380-180636/6**  
**Matrix: Water**  
**Analysis Batch: 180636**

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	0.0500	0.0432	J	mg/L		86	50 - 150
Nitrite as N	0.0500	0.0497	J	mg/L		99	50 - 150

# QC Sample Results

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

Job ID: 380-177798-1  
SDG: Quarterly: Ka'amilo Wells P2

## Method: 300.0 - Anions, Ion Chromatography (Continued)

**Lab Sample ID: 380-177434-A-3 MS**  
**Matrix: Water**  
**Analysis Batch: 180636**

**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
Nitrate as N	0.40		2.50	3.00		mg/L		104	80 - 120
Nitrite as N	<0.10		1.00	0.819		mg/L		82	80 - 120

**Lab Sample ID: 380-177434-A-3 MSD**  
**Matrix: Water**  
**Analysis Batch: 180636**

**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
Nitrate as N	0.40		2.50	2.94		mg/L		101	80 - 120	2	20
Nitrite as N	<0.10		1.00	0.810		mg/L		81	80 - 120	1	20

**Lab Sample ID: MB 380-180637/4**  
**Matrix: Water**  
**Analysis Batch: 180637**

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<0.25		0.25	mg/L			10/17/25 08:53	1

**Lab Sample ID: LCS 380-180637/7**  
**Matrix: Water**  
**Analysis Batch: 180637**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	50.0	49.6		mg/L		99	90 - 110

**Lab Sample ID: LCSD 380-180637/8**  
**Matrix: Water**  
**Analysis Batch: 180637**

**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
Sulfate	50.0	49.7		mg/L		99	90 - 110	0	20

**Lab Sample ID: MRL 380-180637/6**  
**Matrix: Water**  
**Analysis Batch: 180637**

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	0.250	0.224	J	mg/L		90	50 - 150

**Lab Sample ID: 380-177434-A-3 MS**  
**Matrix: Water**  
**Analysis Batch: 180637**

**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
Sulfate	8.6		50.0	61.5		mg/L		106	80 - 120

# QC Sample Results

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

Job ID: 380-177798-1  
SDG: Quarterly: Ka'amilo Wells P2

## Method: 300.0 - Anions, Ion Chromatography (Continued)

**Lab Sample ID: 380-177434-A-3 MSD**  
**Matrix: Water**  
**Analysis Batch: 180637**

**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
Sulfate	8.6		50.0	60.3		mg/L		103	80 - 120	2	20

**Lab Sample ID: MB 380-180973/4**  
**Matrix: Water**  
**Analysis Batch: 180973**

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.50		0.50	mg/L			10/20/25 13:03	1

**Lab Sample ID: LCS 380-180973/6**  
**Matrix: Water**  
**Analysis Batch: 180973**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	25.0	24.9		mg/L		100	90 - 110

**Lab Sample ID: LCSD 380-180973/7**  
**Matrix: Water**  
**Analysis Batch: 180973**

**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
Chloride	25.0	24.8		mg/L		99	90 - 110	0	20

**Lab Sample ID: MRL 380-180973/5**  
**Matrix: Water**  
**Analysis Batch: 180973**

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	0.500	0.437	J	mg/L		87	50 - 150

**Lab Sample ID: 380-177973-A-11 MS**  
**Matrix: Water**  
**Analysis Batch: 180973**

**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
Chloride	100	E	25.0	118	E 4	mg/L		64	80 - 120

**Lab Sample ID: 380-177973-A-11 MSD**  
**Matrix: Water**  
**Analysis Batch: 180973**

**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
Chloride	100	E	25.0	118	E 4	mg/L		64	80 - 120	0	20

**Lab Sample ID: MB 380-180982/6**  
**Matrix: Water**  
**Analysis Batch: 180982**

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	<5.0		5.0	ug/L			10/20/25 17:03	1

Eurofins Eaton Analytical Pomona

# QC Sample Results

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

Job ID: 380-177798-1  
SDG: Quarterly: Ka'amilo Wells P2

## Method: 300.0 - Anions, Ion Chromatography

**Lab Sample ID: LCS 380-180982/7**  
**Matrix: Water**  
**Analysis Batch: 180982**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromide	100	95.8		ug/L		96	90 - 110

**Lab Sample ID: LCSD 380-180982/8**  
**Matrix: Water**  
**Analysis Batch: 180982**

**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
Bromide	100	95.0		ug/L		95	90 - 110	1	10

**Lab Sample ID: MRL 380-180982/5**  
**Matrix: Water**  
**Analysis Batch: 180982**

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Bromide	5.00	5.53		ug/L		111	75 - 125

**Lab Sample ID: 380-177498-AC-1 MS**  
**Matrix: Water**  
**Analysis Batch: 180982**

**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
Bromide	310		50.0	354	4	ug/L		92	80 - 120

**Lab Sample ID: 380-177498-AC-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 180982**

**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
Bromide	310		50.0	354	4	ug/L		92	80 - 120	0	20

**Lab Sample ID: MB 380-181275/5**  
**Matrix: Water**  
**Analysis Batch: 181275**

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	<5.0		5.0	ug/L			10/21/25 14:55	1

**Lab Sample ID: LCS 380-181275/6**  
**Matrix: Water**  
**Analysis Batch: 181275**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromide	100	96.3		ug/L		96	90 - 110

**Lab Sample ID: LCSD 380-181275/7**  
**Matrix: Water**  
**Analysis Batch: 181275**

**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
Bromide	100	95.7		ug/L		96	90 - 110	1	10

Eurofins Eaton Analytical Pomona

# QC Sample Results

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

Job ID: 380-177798-1  
SDG: Quarterly: Ka'amilo Wells P2

## Method: 300.0 - Anions, Ion Chromatography

**Lab Sample ID: MRL 380-181275/4**  
**Matrix: Water**  
**Analysis Batch: 181275**

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Bromide	5.00	5.80		ug/L		116	75 - 125

**Lab Sample ID: 380-177668-A-1 MS**  
**Matrix: Water**  
**Analysis Batch: 181275**

**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
Bromide	19		50.0	67.0		ug/L		95	80 - 120

**Lab Sample ID: 380-177668-A-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 181275**

**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
Bromide	19		50.0	66.5		ug/L		94	80 - 120	1	20

## Method: 200.7 Rev 4.4 - Metals (ICP)

**Lab Sample ID: MBL 380-181243/55**  
**Matrix: Water**  
**Analysis Batch: 181243**

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

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	<0.031		0.10	mg/L			10/21/25 13:03	1
Magnesium	<0.0099		0.10	mg/L			10/21/25 13:03	1
Potassium	<0.044		0.10	mg/L			10/21/25 13:03	1
Sodium	<0.019		0.10	mg/L			10/21/25 13:03	1

**Lab Sample ID: LCS 380-181243/57**  
**Matrix: Water**  
**Analysis Batch: 181243**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	50.0	49.8		mg/L		100	85 - 115
Magnesium	20.0	20.1		mg/L		100	85 - 115
Potassium	20.0	19.9		mg/L		99	85 - 115
Sodium	50.0	49.6		mg/L		99	85 - 115

**Lab Sample ID: LCSD 380-181243/58**  
**Matrix: Water**  
**Analysis Batch: 181243**

**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
Calcium	50.0	49.8		mg/L		100	85 - 115	0	20
Magnesium	20.0	20.1		mg/L		100	85 - 115	0	20
Potassium	20.0	19.9		mg/L		100	85 - 115	0	20
Sodium	50.0	49.7		mg/L		99	85 - 115	0	20

# QC Sample Results

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

Job ID: 380-177798-1  
SDG: Quarterly: Ka'amilo Wells P2

## Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

**Lab Sample ID: LLCS 380-181243/56**  
**Matrix: Water**  
**Analysis Batch: 181243**

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	0.100	0.0915	J	mg/L		91	50 - 150
Magnesium	0.100	0.103		mg/L		103	50 - 150
Potassium	0.100	0.101		mg/L		101	50 - 150
Sodium	0.100	0.102		mg/L		102	50 - 150

**Lab Sample ID: 380-177782-E-1 MS**  
**Matrix: Water**  
**Analysis Batch: 181243**

**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
Calcium	20		50.0	69.1		mg/L		97	70 - 130
Magnesium	1.6		20.0	21.8		mg/L		101	70 - 130
Potassium	1.6		20.0	21.5		mg/L		100	70 - 130
Sodium	16		50.0	64.9		mg/L		98	70 - 130

**Lab Sample ID: 380-177782-E-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 181243**

**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
Calcium	20		50.0	68.4		mg/L		96	70 - 130	1	20
Magnesium	1.6		20.0	21.5		mg/L		99	70 - 130	1	20
Potassium	1.6		20.0	21.1		mg/L		98	70 - 130	2	20
Sodium	16		50.0	63.8		mg/L		96	70 - 130	2	20

## Method: 200.8 - Metals (ICP/MS)

**Lab Sample ID: MBL 380-181050/151**  
**Matrix: Water**  
**Analysis Batch: 181050**

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

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.48		1.0	ug/L			10/20/25 17:19	1
Arsenic	<0.25		1.0	ug/L			10/20/25 17:19	1
Beryllium	<0.12		0.30	ug/L			10/20/25 17:19	1
Cadmium	<0.081		0.50	ug/L			10/20/25 17:19	1
Chromium	<0.33		0.90	ug/L			10/20/25 17:19	1
Copper	<0.28		1.0	ug/L			10/20/25 17:19	1
Lead	<0.084		0.50	ug/L			10/20/25 17:19	1
Nickel	<0.38		1.0	ug/L			10/20/25 17:19	1
Selenium	<0.25		2.0	ug/L			10/20/25 17:19	1
Silver	<0.30		0.50	ug/L			10/20/25 17:19	1
Thallium	<0.10		0.30	ug/L			10/20/25 17:19	1
Zinc	<1.3		5.0	ug/L			10/20/25 17:19	1

# QC Sample Results

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

Job ID: 380-177798-1  
SDG: Quarterly: Ka'amilo Wells P2

## Method: 200.8 - Metals (ICP/MS) (Continued)

**Lab Sample ID: LCS 380-181050/153**  
**Matrix: Water**  
**Analysis Batch: 181050**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	50.0	49.7		ug/L		99	85 - 115
Arsenic	50.0	52.0		ug/L		104	85 - 115
Beryllium	50.0	54.9		ug/L		110	85 - 115
Cadmium	50.0	50.2		ug/L		100	85 - 115
Chromium	50.0	50.8		ug/L		102	85 - 115
Copper	50.0	52.0		ug/L		104	85 - 115
Lead	50.0	45.9		ug/L		92	85 - 115
Nickel	50.0	49.6		ug/L		99	85 - 115
Selenium	50.0	51.6		ug/L		103	85 - 115
Silver	50.0	52.0		ug/L		104	85 - 115
Thallium	50.0	46.5		ug/L		93	85 - 115
Zinc	50.0	50.9		ug/L		102	85 - 115

**Lab Sample ID: LCSD 380-181050/154**  
**Matrix: Water**  
**Analysis Batch: 181050**

**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
Antimony	50.0	50.9		ug/L		102	85 - 115	2	20
Arsenic	50.0	52.9		ug/L		106	85 - 115	2	20
Beryllium	50.0	56.0		ug/L		112	85 - 115	2	20
Cadmium	50.0	51.4		ug/L		103	85 - 115	2	20
Chromium	50.0	51.1		ug/L		102	85 - 115	1	20
Copper	50.0	52.7		ug/L		105	85 - 115	1	20
Lead	50.0	47.2		ug/L		94	85 - 115	3	20
Nickel	50.0	50.3		ug/L		101	85 - 115	2	20
Selenium	50.0	52.7		ug/L		105	85 - 115	2	20
Silver	50.0	52.9		ug/L		106	85 - 115	2	20
Thallium	50.0	47.6		ug/L		95	85 - 115	2	20
Zinc	50.0	52.3		ug/L		105	85 - 115	3	20

**Lab Sample ID: LLCS 380-181050/152**  
**Matrix: Water**  
**Analysis Batch: 181050**

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	1.00	1.01		ug/L		101	50 - 150
Arsenic	1.00	0.914	J	ug/L		91	50 - 150
Beryllium	0.300	0.324		ug/L		108	50 - 150
Cadmium	0.500	0.483	J	ug/L		97	50 - 150
Chromium	0.900	1.12		ug/L		124	50 - 150
Copper	1.00	1.06		ug/L		106	50 - 150
Lead	0.500	0.456	J	ug/L		91	50 - 150
Nickel	1.00	1.02		ug/L		102	50 - 150
Selenium	2.00	2.09		ug/L		104	50 - 150
Silver	0.500	0.531		ug/L		106	50 - 150
Thallium	0.300	0.279	J	ug/L		93	50 - 150
Zinc	5.00	5.25		ug/L		105	50 - 150

# QC Sample Results

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

Job ID: 380-177798-1  
SDG: Quarterly: Ka'amilo Wells P2

## Method: 200.8 - Metals (ICP/MS) (Continued)

**Lab Sample ID: 380-177761-C-1 MS**  
**Matrix: Water**  
**Analysis Batch: 181050**

**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
Antimony	<1.0		50.0	52.4		ug/L		105	70 - 130
Arsenic	<1.0		50.0	57.4		ug/L		114	70 - 130
Beryllium	<0.30		50.0	49.7		ug/L		99	70 - 130
Cadmium	<0.50		50.0	52.3		ug/L		105	70 - 130
Chromium	7.9		50.0	59.2		ug/L		103	70 - 130
Copper	1.6		50.0	51.1		ug/L		99	70 - 130
Lead	<0.50		50.0	46.3		ug/L		93	70 - 130
Nickel	4.3		50.0	52.5		ug/L		96	70 - 130
Selenium	<2.0		50.0	62.6		ug/L		124	70 - 130
Silver	<0.50		50.0	49.7		ug/L		99	70 - 130
Thallium	<0.30		50.0	46.9		ug/L		94	70 - 130
Zinc	12		50.0	64.6		ug/L		106	70 - 130

**Lab Sample ID: 380-177761-C-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 181050**

**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
Antimony	<1.0		50.0	52.4		ug/L		105	70 - 130	0	20
Arsenic	<1.0		50.0	56.7		ug/L		113	70 - 130	1	20
Beryllium	<0.30		50.0	49.3		ug/L		99	70 - 130	1	20
Cadmium	<0.50		50.0	51.4		ug/L		103	70 - 130	2	20
Chromium	7.9		50.0	58.3		ug/L		101	70 - 130	1	20
Copper	1.6		50.0	50.6		ug/L		98	70 - 130	1	20
Lead	<0.50		50.0	45.8		ug/L		92	70 - 130	1	20
Nickel	4.3		50.0	51.9		ug/L		95	70 - 130	1	20
Selenium	<2.0		50.0	61.9		ug/L		122	70 - 130	1	20
Silver	<0.50		50.0	49.5		ug/L		99	70 - 130	0	20
Thallium	<0.30		50.0	46.7		ug/L		93	70 - 130	0	20
Zinc	12		50.0	63.7		ug/L		104	70 - 130	1	20

## Method: 200.8 - Mercury (ICP/MS)

**Lab Sample ID: MBL 380-181051/115**  
**Matrix: Water**  
**Analysis Batch: 181051**

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

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.079		0.20	ug/L			10/20/25 16:04	1

**Lab Sample ID: MBL 380-181051/151**  
**Matrix: Water**  
**Analysis Batch: 181051**

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

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.079		0.20	ug/L			10/20/25 17:19	1

# QC Sample Results

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

Job ID: 380-177798-1  
SDG: Quarterly: Ka'amilo Wells P2

## Method: 200.8 - Mercury (ICP/MS) (Continued)

**Lab Sample ID: LCS 380-181051/117**  
**Matrix: Water**  
**Analysis Batch: 181051**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	1.00	0.962		ug/L		96	85 - 115

**Lab Sample ID: LCS 380-181051/153**  
**Matrix: Water**  
**Analysis Batch: 181051**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	1.00	0.889		ug/L		89	85 - 115

**Lab Sample ID: LCSD 380-181051/118**  
**Matrix: Water**  
**Analysis Batch: 181051**

**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
Mercury	1.00	0.966		ug/L		97	85 - 115	0	20

**Lab Sample ID: LCSD 380-181051/154**  
**Matrix: Water**  
**Analysis Batch: 181051**

**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
Mercury	1.00	0.939		ug/L		94	85 - 115	5	20

**Lab Sample ID: LLCS 380-181051/116**  
**Matrix: Water**  
**Analysis Batch: 181051**

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.200	0.204		ug/L		102	50 - 150

**Lab Sample ID: LLCS 380-181051/152**  
**Matrix: Water**  
**Analysis Batch: 181051**

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.200	0.195	J	ug/L		98	50 - 150

**Lab Sample ID: 380-176459-A-1 MS**  
**Matrix: Water**  
**Analysis Batch: 181051**

**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
Mercury	<0.20		1.00	0.967		ug/L		97	70 - 130

**Lab Sample ID: 380-176459-A-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 181051**

**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
Mercury	<0.20		1.00	0.986		ug/L		99	70 - 130	2	20

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# QC Sample Results

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

Job ID: 380-177798-1  
SDG: Quarterly: Ka'amilo Wells P2

## Method: SM 2320B - Alkalinity

**Lab Sample ID: MB 380-181103/1**  
**Matrix: Water**  
**Analysis Batch: 181103**

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	<4.0		4.0	mg/L			10/20/25 19:17	1
Bicarbonate Alkalinity as CaCO3	<4.0		4.0	mg/L			10/20/25 19:17	1
Carbonate Alkalinity as CaCO3	<4.0		4.0	mg/L			10/20/25 19:17	1

**Lab Sample ID: LCS 380-181103/4**  
**Matrix: Water**  
**Analysis Batch: 181103**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	100	93.9		mg/L		94	90 - 110

**Lab Sample ID: LCSD 380-181103/19**  
**Matrix: Water**  
**Analysis Batch: 181103**

**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
Alkalinity	100	94.1		mg/L		94	90 - 110	0	20

**Lab Sample ID: LLCS 380-181103/5**  
**Matrix: Water**  
**Analysis Batch: 181103**

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	20.0	18.0		mg/L		90	90 - 110

**Lab Sample ID: MRL 380-181103/3**  
**Matrix: Water**  
**Analysis Batch: 181103**

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	4.00	3.51	J	mg/L		88	50 - 150

**Lab Sample ID: 380-177537-X-1 MS**  
**Matrix: Water**  
**Analysis Batch: 181103**

**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
Alkalinity	71		100	167		mg/L		97	80 - 120

**Lab Sample ID: 380-177537-X-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 181103**

**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
Alkalinity	71		100	168		mg/L		97	80 - 120	0	20

# QC Sample Results

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

Job ID: 380-177798-1  
SDG: Quarterly: Ka'amilo Wells P2

## Method: SM 2320B - Alkalinity (Continued)

**Lab Sample ID: 380-177537-X-1 DU**  
**Matrix: Water**  
**Analysis Batch: 181103**

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

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Alkalinity	71		70.5		mg/L		0.07	20
Bicarbonate Alkalinity as CaCO3	71		70.5		mg/L		0.07	20
Carbonate Alkalinity as CaCO3	<4.0		<4.0		mg/L		NC	20

## Method: SM 2510B - Conductivity, Specific Conductance

**Lab Sample ID: MB 380-181106/3**  
**Matrix: Water**  
**Analysis Batch: 181106**

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

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Specific Conductance	<2.0		2.0	umhos/cm			10/20/25 19:17	1

**Lab Sample ID: LCS 380-181106/5**  
**Matrix: Water**  
**Analysis Batch: 181106**

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

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits	RPD
		Result	Qualifier					
Specific Conductance	1000	997		umhos/cm		100	90 - 110	

**Lab Sample ID: LCSD 380-181106/17**  
**Matrix: Water**  
**Analysis Batch: 181106**

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

Analyte	Spike Added	LCSD	LCSD	Unit	D	%Rec	%Rec Limits	RPD	Limit
		Result	Qualifier						
Specific Conductance	1000	992		umhos/cm		99	90 - 110	0	10

**Lab Sample ID: MRL 380-181106/4**  
**Matrix: Water**  
**Analysis Batch: 181106**

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

Analyte	Spike Added	MRL	MRL	Unit	D	%Rec	%Rec Limits	RPD
		Result	Qualifier					
Specific Conductance	2.00	2.00		umhos/cm		100	50 - 150	

**Lab Sample ID: 380-177537-X-1 DU**  
**Matrix: Water**  
**Analysis Batch: 181106**

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

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Specific Conductance	360		359		umhos/cm		0.1	20

## Method: SM 2540C - Solids, Total Dissolved (TDS)

**Lab Sample ID: MB 380-181193/1**  
**Matrix: Water**  
**Analysis Batch: 181193**

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

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Total Dissolved Solids	<10		10	mg/L			10/21/25 17:00	1

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# QC Sample Results

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

Job ID: 380-177798-1  
SDG: Quarterly: Ka'amilo Wells P2

## Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

**Lab Sample ID: HLCS 380-181193/5**  
**Matrix: Water**  
**Analysis Batch: 181193**

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

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	700	708		mg/L		101	80 - 114

**Lab Sample ID: LCS 380-181193/4**  
**Matrix: Water**  
**Analysis Batch: 181193**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	175	164		mg/L		94	80 - 114

**Lab Sample ID: MRL 380-181193/2**  
**Matrix: Water**  
**Analysis Batch: 181193**

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	10.0	8.00	J	mg/L		80	50 - 150

**Lab Sample ID: MRL 380-181193/3**  
**Matrix: Water**  
**Analysis Batch: 181193**

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	10.0	12.0		mg/L		120	50 - 150

**Lab Sample ID: 380-177761-B-1 DU**  
**Matrix: Water**  
**Analysis Batch: 181193**

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

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	290		288		mg/L		0.7	10

## Method: SM 4500 F C - Fluoride

**Lab Sample ID: MB 380-181387/40**  
**Matrix: Water**  
**Analysis Batch: 181387**

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.050		0.050	mg/L			10/21/25 20:21	1

**Lab Sample ID: LCS 380-181387/42**  
**Matrix: Water**  
**Analysis Batch: 181387**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	1.00	1.02		mg/L		102	90 - 110

# QC Sample Results

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

Job ID: 380-177798-1  
SDG: Quarterly: Ka'amilo Wells P2

## Method: SM 4500 F C - Fluoride (Continued)

**Lab Sample ID: LCSD 380-181387/43**  
**Matrix: Water**  
**Analysis Batch: 181387**

**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
Fluoride	1.00	1.02		mg/L		102	90 - 110	0	10

**Lab Sample ID: MRL 380-181387/41**  
**Matrix: Water**  
**Analysis Batch: 181387**

**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
Fluoride	0.0500	0.0507		mg/L		101	50 - 150		

**Lab Sample ID: 380-177153-E-5 MS**  
**Matrix: Water**  
**Analysis Batch: 181387**

**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
Fluoride	0.67		1.00	1.69		mg/L		102	80 - 120		

**Lab Sample ID: 380-177153-E-5 MSD**  
**Matrix: Water**  
**Analysis Batch: 181387**

**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
Fluoride	0.67		1.00	1.69		mg/L		102	80 - 120	0	20

## Method: SM 4500 H+ B - pH

**Lab Sample ID: MB 380-181108/5**  
**Matrix: Water**  
**Analysis Batch: 181108**

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.5			SU			10/20/25 19:17	1

**Lab Sample ID: LCS 380-181108/6**  
**Matrix: Water**  
**Analysis Batch: 181108**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
pH	6.00	6.1		SU		101	98 - 102		

**Lab Sample ID: LCSD 380-181108/18**  
**Matrix: Water**  
**Analysis Batch: 181108**

**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
pH	6.00	6.1		SU		101	98 - 102	0	2

# QC Sample Results

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

Job ID: 380-177798-1  
SDG: Quarterly: Ka'amilo Wells P2

## Method: SM 4500 H+ B - pH (Continued)

**Lab Sample ID: 380-177537-X-1 DU**  
**Matrix: Water**  
**Analysis Batch: 181108**

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

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	8.0		8.0		SU		0.6	2

## Method: SM 4500 S2 D - Sulfide, Total

**Lab Sample ID: MB 380-180853/3**  
**Matrix: Water**  
**Analysis Batch: 180853**

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<0.050		0.050	mg/L			10/20/25 13:02	1

**Lab Sample ID: LCS 380-180853/5**  
**Matrix: Water**  
**Analysis Batch: 180853**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	0.250	0.244		mg/L		97	90 - 110

**Lab Sample ID: LCSD 380-180853/6**  
**Matrix: Water**  
**Analysis Batch: 180853**

**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
Sulfide	0.250	0.233		mg/L		93	90 - 110	4	20

**Lab Sample ID: MRL 380-180853/4**  
**Matrix: Water**  
**Analysis Batch: 180853**

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	0.0500	0.0502		mg/L		100	50 - 150

**Lab Sample ID: 380-177079-Y-1 MS**  
**Matrix: Water**  
**Analysis Batch: 180853**

**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
Sulfide	<0.050	F1	0.250	0.193	F1	mg/L		77	80 - 120

**Lab Sample ID: 380-177079-Y-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 180853**

**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
Sulfide	<0.050	F1	0.250	0.198	F1	mg/L		79	80 - 120	3	20

# QC Association Summary

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

Job ID: 380-177798-1  
SDG: Quarterly: Ka'amilo Wells P2

## GC/MS VOA

### Analysis Batch: 181139

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-177798-1	Ka'amilo Wells P2	Total/NA	Water	524.2	
380-177798-2	TB: Ka'amilo Wells P2	Total/NA	Water	524.2	
MB 380-181139/15	Method Blank	Total/NA	Water	524.2	
LCS 380-181139/11	Lab Control Sample	Total/NA	Water	524.2	
LCSD 380-181139/12	Lab Control Sample Dup	Total/NA	Water	524.2	
MRL 380-181139/13	Lab Control Sample	Total/NA	Water	524.2	
MRL 380-181139/14	Lab Control Sample	Total/NA	Water	524.2	

### Analysis Batch: 181598

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-177798-1	Ka'amilo Wells P2	Total/NA	Water	524.2	
380-177798-2	TB: Ka'amilo Wells P2	Total/NA	Water	524.2	

## GC/MS Semi VOA

### Prep Batch: 181363

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-177798-1	Ka'amilo Wells P2	Total/NA	Water	525.2	
MB 380-181363/20-A	Method Blank	Total/NA	Water	525.2	
LCS 380-181363/22-A	Lab Control Sample	Total/NA	Water	525.2	
MRL 380-181363/21-A	Lab Control Sample	Total/NA	Water	525.2	
380-177536-R-1-A MS	Matrix Spike	Total/NA	Water	525.2	
380-177536-S-1-A MSD	Matrix Spike Duplicate	Total/NA	Water	525.2	

### Analysis Batch: 181709

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-177798-1	Ka'amilo Wells P2	Total/NA	Water	525.2	181363
MB 380-181363/20-A	Method Blank	Total/NA	Water	525.2	181363
LCS 380-181363/22-A	Lab Control Sample	Total/NA	Water	525.2	181363
MRL 380-181363/21-A	Lab Control Sample	Total/NA	Water	525.2	181363
380-177536-R-1-A MS	Matrix Spike	Total/NA	Water	525.2	181363
380-177536-S-1-A MSD	Matrix Spike Duplicate	Total/NA	Water	525.2	181363

### Prep Batch: 643951

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-177798-1	Ka'amilo Wells P2	Total/NA	Water	625.1	
MB 570-643951/1-A	Method Blank	Total/NA	Water	625.1	
LCS 570-643951/2-A	Lab Control Sample	Total/NA	Water	625.1	
LCSD 570-643951/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	
380-178070-A-1-A MS	Matrix Spike	Total/NA	Water	625.1	
380-178070-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	625.1	

### Analysis Batch: 649432

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-177798-1	Ka'amilo Wells P2	Total/NA	Water	625.1 SIM	643951
MB 570-643951/1-A	Method Blank	Total/NA	Water	625.1 SIM	643951
LCS 570-643951/2-A	Lab Control Sample	Total/NA	Water	625.1 SIM	643951
LCSD 570-643951/3-A	Lab Control Sample Dup	Total/NA	Water	625.1 SIM	643951
380-178070-A-1-A MS	Matrix Spike	Total/NA	Water	625.1 SIM	643951
380-178070-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	625.1 SIM	643951

# QC Association Summary

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

Job ID: 380-177798-1  
SDG: Quarterly: Ka'amilo Wells P2

## GC/MS Semi VOA

### Analysis Batch: 651838

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-177798-1	Ka'amilo Wells P2	Total/NA	Water	625.1	643951
MB 570-643951/1-A	Method Blank	Total/NA	Water	625.1	643951

## GC VOA

### Analysis Batch: 646186

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-177798-1	Ka'amilo Wells P2	Total/NA	Water	8015B GRO LL	
380-177798-2	TB: Ka'amilo Wells P2	Total/NA	Water	8015B GRO LL	
MB 570-646186/35	Method Blank	Total/NA	Water	8015B GRO LL	
LCS 570-646186/33	Lab Control Sample	Total/NA	Water	8015B GRO LL	
LCSD 570-646186/34	Lab Control Sample Dup	Total/NA	Water	8015B GRO LL	
MRL 570-646186/32	Lab Control Sample	Total/NA	Water	8015B GRO LL	
380-178571-C-1 MS	Matrix Spike	Total/NA	Water	8015B GRO LL	
380-178571-C-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8015B GRO LL	

## GC Semi VOA

### Prep Batch: 181362

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-177798-1	Ka'amilo Wells P2	Total/NA	Water	505	
MB 380-181362/3-A	Method Blank	Total/NA	Water	505	
LCS 380-181362/28-A	Lab Control Sample	Total/NA	Water	505	
LCS 380-181362/30-A	Lab Control Sample	Total/NA	Water	505	
LCS 380-181362/31-A	Lab Control Sample	Total/NA	Water	505	
LCSD 380-181362/29-A	Lab Control Sample Dup	Total/NA	Water	505	
MRL 380-181362/1-A	Lab Control Sample	Total/NA	Water	505	
MRL 380-181362/2-A	Lab Control Sample	Total/NA	Water	505	
380-178190-C-1-A MS	Matrix Spike	Total/NA	Water	505	
380-178190-D-1-A MS	Matrix Spike	Total/NA	Water	505	
380-178190-G-2-A MS	Matrix Spike	Total/NA	Water	505	
380-178190-H-2-A MS	Matrix Spike	Total/NA	Water	505	

### Prep Batch: 181489

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-177798-1	Ka'amilo Wells P2	Total/NA	Water	504.1	
380-177798-2	TB: Ka'amilo Wells P2	Total/NA	Water	504.1	
MBL 380-181489/4-A	Method Blank	Total/NA	Water	504.1	
LCS 380-181489/29-A	Lab Control Sample	Total/NA	Water	504.1	
MRL 380-181489/2-A	Lab Control Sample	Total/NA	Water	504.1	
MRL 380-181489/3-A	Lab Control Sample	Total/NA	Water	504.1	
380-178037-BW-1-A MS	Matrix Spike	Total/NA	Water	504.1	
380-178038-BV-1-A DU	Duplicate	Total/NA	Water	504.1	

### Analysis Batch: 181765

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-177798-1	Ka'amilo Wells P2	Total/NA	Water	505	181362
MB 380-181362/3-A	Method Blank	Total/NA	Water	505	181362
LCS 380-181362/28-A	Lab Control Sample	Total/NA	Water	505	181362
LCS 380-181362/30-A	Lab Control Sample	Total/NA	Water	505	181362
LCS 380-181362/31-A	Lab Control Sample	Total/NA	Water	505	181362
LCSD 380-181362/29-A	Lab Control Sample Dup	Total/NA	Water	505	181362

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# QC Association Summary

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

Job ID: 380-177798-1  
SDG: Quarterly: Ka'amilo Wells P2

## GC Semi VOA (Continued)

### Analysis Batch: 181765 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MRL 380-181362/1-A	Lab Control Sample	Total/NA	Water	505	181362
MRL 380-181362/2-A	Lab Control Sample	Total/NA	Water	505	181362
380-178190-C-1-A MS	Matrix Spike	Total/NA	Water	505	181362
380-178190-D-1-A MS	Matrix Spike	Total/NA	Water	505	181362
380-178190-G-2-A MS	Matrix Spike	Total/NA	Water	505	181362
380-178190-H-2-A MS	Matrix Spike	Total/NA	Water	505	181362

### Analysis Batch: 181825

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-177798-1	Ka'amilo Wells P2	Total/NA	Water	504.1	181489
380-177798-2	TB: Ka'amilo Wells P2	Total/NA	Water	504.1	181489
MBL 380-181489/4-A	Method Blank	Total/NA	Water	504.1	181489
LCS 380-181489/29-A	Lab Control Sample	Total/NA	Water	504.1	181489
MRL 380-181489/2-A	Lab Control Sample	Total/NA	Water	504.1	181489
MRL 380-181489/3-A	Lab Control Sample	Total/NA	Water	504.1	181489
380-178037-BW-1-A MS	Matrix Spike	Total/NA	Water	504.1	181489
380-178038-BV-1-A DU	Duplicate	Total/NA	Water	504.1	181489

### Analysis Batch: 643985

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-177798-1	Ka'amilo Wells P2	Total/NA	Water	8015B	
MB 570-643985/3	Method Blank	Total/NA	Water	8015B	
LCS 570-643985/5	Lab Control Sample	Total/NA	Water	8015B	
LCSD 570-643985/6	Lab Control Sample Dup	Total/NA	Water	8015B	
MRL 570-643985/4	Lab Control Sample	Total/NA	Water	8015B	
380-177079-I-1 MS	Matrix Spike	Total/NA	Water	8015B	
380-177079-I-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8015B	

### Prep Batch: 644924

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-177798-1	Ka'amilo Wells P2	Total/NA	Water	3510C	
MB 570-644924/1-A	Method Blank	Total/NA	Water	3510C	
LCS 570-644924/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 570-644924/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MRL 570-644924/4-A	Lab Control Sample	Total/NA	Water	3510C	
380-178070-C-1-C MS	Matrix Spike	Total/NA	Water	3510C	
380-178070-C-1-D MSD	Matrix Spike Duplicate	Total/NA	Water	3510C	

### Analysis Batch: 648248

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-177798-1	Ka'amilo Wells P2	Total/NA	Water	8015B	644924
MB 570-644924/1-A	Method Blank	Total/NA	Water	8015B	644924
LCS 570-644924/2-A	Lab Control Sample	Total/NA	Water	8015B	644924
LCSD 570-644924/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	644924
MRL 570-644924/4-A	Lab Control Sample	Total/NA	Water	8015B	644924
380-178070-C-1-C MS	Matrix Spike	Total/NA	Water	8015B	644924
380-178070-C-1-D MSD	Matrix Spike Duplicate	Total/NA	Water	8015B	644924

# QC Association Summary

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

Job ID: 380-177798-1  
SDG: Quarterly: Ka'amilo Wells P2

## HPLC/IC

### Analysis Batch: 180636

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-177798-1	Ka'amilo Wells P2	Total/NA	Water	300.0	
MB 380-180636/4	Method Blank	Total/NA	Water	300.0	
LCS 380-180636/7	Lab Control Sample	Total/NA	Water	300.0	
LCSD 380-180636/8	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 380-180636/6	Lab Control Sample	Total/NA	Water	300.0	
380-177434-A-3 MS	Matrix Spike	Total/NA	Water	300.0	
380-177434-A-3 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	

### Analysis Batch: 180637

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-177798-1	Ka'amilo Wells P2	Total/NA	Water	300.0	
MB 380-180637/4	Method Blank	Total/NA	Water	300.0	
LCS 380-180637/7	Lab Control Sample	Total/NA	Water	300.0	
LCSD 380-180637/8	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 380-180637/6	Lab Control Sample	Total/NA	Water	300.0	
380-177434-A-3 MS	Matrix Spike	Total/NA	Water	300.0	
380-177434-A-3 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	

### Analysis Batch: 180973

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-177798-1	Ka'amilo Wells P2	Total/NA	Water	300.0	
MB 380-180973/4	Method Blank	Total/NA	Water	300.0	
LCS 380-180973/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 380-180973/7	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 380-180973/5	Lab Control Sample	Total/NA	Water	300.0	
380-177973-A-11 MS	Matrix Spike	Total/NA	Water	300.0	
380-177973-A-11 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	

### Analysis Batch: 180982

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 380-180982/6	Method Blank	Total/NA	Water	300.0	
LCS 380-180982/7	Lab Control Sample	Total/NA	Water	300.0	
LCSD 380-180982/8	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 380-180982/5	Lab Control Sample	Total/NA	Water	300.0	
380-177498-AC-1 MS	Matrix Spike	Total/NA	Water	300.0	
380-177498-AC-1 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	

### Analysis Batch: 181275

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-177798-1	Ka'amilo Wells P2	Total/NA	Water	300.0	
MB 380-181275/5	Method Blank	Total/NA	Water	300.0	
LCS 380-181275/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 380-181275/7	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 380-181275/4	Lab Control Sample	Total/NA	Water	300.0	
380-177668-A-1 MS	Matrix Spike	Total/NA	Water	300.0	
380-177668-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	

# QC Association Summary

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

Job ID: 380-177798-1  
SDG: Quarterly: Ka'amilo Wells P2

## Metals

### Analysis Batch: 181050

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-177798-1	Ka'amilo Wells P2	Total/NA	Water	200.8	
MBL 380-181050/151	Method Blank	Total/NA	Water	200.8	
LCS 380-181050/153	Lab Control Sample	Total/NA	Water	200.8	
LCSD 380-181050/154	Lab Control Sample Dup	Total/NA	Water	200.8	
LLCS 380-181050/152	Lab Control Sample	Total/NA	Water	200.8	
380-177761-C-1 MS	Matrix Spike	Total/NA	Water	200.8	
380-177761-C-1 MSD	Matrix Spike Duplicate	Total/NA	Water	200.8	

### Analysis Batch: 181051

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-177798-1	Ka'amilo Wells P2	Total/NA	Water	200.8	
MBL 380-181051/115	Method Blank	Total/NA	Water	200.8	
MBL 380-181051/151	Method Blank	Total/NA	Water	200.8	
LCS 380-181051/117	Lab Control Sample	Total/NA	Water	200.8	
LCS 380-181051/153	Lab Control Sample	Total/NA	Water	200.8	
LCSD 380-181051/118	Lab Control Sample Dup	Total/NA	Water	200.8	
LCSD 380-181051/154	Lab Control Sample Dup	Total/NA	Water	200.8	
LLCS 380-181051/116	Lab Control Sample	Total/NA	Water	200.8	
LLCS 380-181051/152	Lab Control Sample	Total/NA	Water	200.8	
380-176459-A-1 MS	Matrix Spike	Total/NA	Water	200.8	
380-176459-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	200.8	

### Analysis Batch: 181243

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-177798-1	Ka'amilo Wells P2	Total/NA	Water	200.7 Rev 4.4	
MBL 380-181243/55	Method Blank	Total/NA	Water	200.7 Rev 4.4	
LCS 380-181243/57	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	
LCSD 380-181243/58	Lab Control Sample Dup	Total/NA	Water	200.7 Rev 4.4	
LLCS 380-181243/56	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	
380-177782-E-1 MS	Matrix Spike	Total/NA	Water	200.7 Rev 4.4	
380-177782-E-1 MSD	Matrix Spike Duplicate	Total/NA	Water	200.7 Rev 4.4	

## General Chemistry

### Analysis Batch: 180853

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-177798-1	Ka'amilo Wells P2	Total/NA	Water	SM 4500 S2 D	
MB 380-180853/3	Method Blank	Total/NA	Water	SM 4500 S2 D	
LCS 380-180853/5	Lab Control Sample	Total/NA	Water	SM 4500 S2 D	
LCSD 380-180853/6	Lab Control Sample Dup	Total/NA	Water	SM 4500 S2 D	
MRL 380-180853/4	Lab Control Sample	Total/NA	Water	SM 4500 S2 D	
380-177079-Y-1 MS	Matrix Spike	Total/NA	Water	SM 4500 S2 D	
380-177079-Y-1 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 S2 D	

### Analysis Batch: 181103

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-177798-1	Ka'amilo Wells P2	Total/NA	Water	SM 2320B	
MB 380-181103/1	Method Blank	Total/NA	Water	SM 2320B	
LCS 380-181103/4	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 380-181103/19	Lab Control Sample Dup	Total/NA	Water	SM 2320B	
LLCS 380-181103/5	Lab Control Sample	Total/NA	Water	SM 2320B	

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# QC Association Summary

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

Job ID: 380-177798-1  
SDG: Quarterly: Ka'amilo Wells P2

## General Chemistry (Continued)

### Analysis Batch: 181103 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MRL 380-181103/3	Lab Control Sample	Total/NA	Water	SM 2320B	
380-177537-X-1 MS	Matrix Spike	Total/NA	Water	SM 2320B	
380-177537-X-1 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 2320B	
380-177537-X-1 DU	Duplicate	Total/NA	Water	SM 2320B	

### Analysis Batch: 181106

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-177798-1	Ka'amilo Wells P2	Total/NA	Water	SM 2510B	
MB 380-181106/3	Method Blank	Total/NA	Water	SM 2510B	
LCS 380-181106/5	Lab Control Sample	Total/NA	Water	SM 2510B	
LCSD 380-181106/17	Lab Control Sample Dup	Total/NA	Water	SM 2510B	
MRL 380-181106/4	Lab Control Sample	Total/NA	Water	SM 2510B	
380-177537-X-1 DU	Duplicate	Total/NA	Water	SM 2510B	

### Analysis Batch: 181108

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-177798-1	Ka'amilo Wells P2	Total/NA	Water	SM 4500 H+ B	
MB 380-181108/5	Method Blank	Total/NA	Water	SM 4500 H+ B	
LCS 380-181108/6	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	
LCSD 380-181108/18	Lab Control Sample Dup	Total/NA	Water	SM 4500 H+ B	
380-177537-X-1 DU	Duplicate	Total/NA	Water	SM 4500 H+ B	

### Analysis Batch: 181193

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-177798-1	Ka'amilo Wells P2	Total/NA	Water	SM 2540C	
MB 380-181193/1	Method Blank	Total/NA	Water	SM 2540C	
HLCS 380-181193/5	Lab Control Sample	Total/NA	Water	SM 2540C	
LCS 380-181193/4	Lab Control Sample	Total/NA	Water	SM 2540C	
MRL 380-181193/2	Lab Control Sample	Total/NA	Water	SM 2540C	
MRL 380-181193/3	Lab Control Sample	Total/NA	Water	SM 2540C	
380-177761-B-1 DU	Duplicate	Total/NA	Water	SM 2540C	

### Analysis Batch: 181387

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-177798-1	Ka'amilo Wells P2	Total/NA	Water	SM 4500 F C	
MB 380-181387/40	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 380-181387/42	Lab Control Sample	Total/NA	Water	SM 4500 F C	
LCSD 380-181387/43	Lab Control Sample Dup	Total/NA	Water	SM 4500 F C	
MRL 380-181387/41	Lab Control Sample	Total/NA	Water	SM 4500 F C	
380-177153-E-5 MS	Matrix Spike	Total/NA	Water	SM 4500 F C	
380-177153-E-5 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 F C	

# Lab Chronicle

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

Job ID: 380-177798-1  
SDG: Quarterly: Ka'amilo Wells P2

**Client Sample ID: Ka'amilo Wells P2**

**Lab Sample ID: 380-177798-1**

**Date Collected: 10/16/25 10:56**

**Matrix: Water**

**Date Received: 10/17/25 09:25**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	524.2		1	181139	YNB8	EA POM	10/21/25 17:23
Total/NA	Analysis	524.2		1	181598	YXX2	EA POM	10/21/25 17:23
Total/NA	Prep	525.2			181363	OTM3	EA POM	10/22/25 09:06
Total/NA	Analysis	525.2		1	181709	UPAC	EA POM	10/23/25 17:38
Total/NA	Prep	625.1			643951	S4EA	EET CAL 4	10/21/25 14:33
Total/NA	Analysis	625.1		1	651838	J7WE	EET CAL 4	11/05/25 22:21
Total/NA	Prep	625.1			643951	S4EA	EET CAL 4	10/21/25 14:33
Total/NA	Analysis	625.1 SIM		1	649432	J7WE	EET CAL 4	10/31/25 21:42
Total/NA	Analysis	8015B GRO LL		1	646186	YD9V	EET CAL 4	10/26/25 01:13
Total/NA	Prep	504.1			181489	GVC6	EA POM	10/22/25 16:02 - 10/22/25 17:33 <sup>1</sup>
Total/NA	Analysis	504.1		1	181825	GVC6	EA POM	10/23/25 02:22
Total/NA	Prep	505			181362	DR5R	EA POM	10/22/25 13:02 - 10/22/25 14:35 <sup>1</sup>
Total/NA	Analysis	505		1	181765	DR5R	EA POM	10/23/25 06:31
Total/NA	Prep	3510C			644924	TVD6	EET CAL 4	10/23/25 09:44
Total/NA	Analysis	8015B		1	648248	H6FE	EET CAL 4	10/30/25 00:19
Total/NA	Analysis	8015B		1	643985	ZE2W	EET CAL 4	10/21/25 21:40
Total/NA	Analysis	300.0		2	180636	BG6L	EA POM	10/17/25 15:31
Total/NA	Analysis	300.0		2	180637	BG6L	EA POM	10/17/25 15:31
Total/NA	Analysis	300.0		5	180973	DXD4	EA POM	10/20/25 23:43
Total/NA	Analysis	300.0		5	181275	UNJR	EA POM	10/21/25 18:26
Total/NA	Analysis	200.7 Rev 4.4		1	181243	MF7S	EA POM	10/21/25 13:44
Total/NA	Analysis	200.8		1	181050	T8BB	EA POM	10/20/25 18:18
Total/NA	Analysis	200.8		1	181051	T8BB	EA POM	10/20/25 18:21
Total/NA	Analysis	SM 2320B		1	181103	MH2L	EA POM	10/20/25 23:59
Total/NA	Analysis	SM 2510B		1	181106	MH2L	EA POM	10/20/25 23:59
Total/NA	Analysis	SM 2540C		1	181193	UJRF	EA POM	10/21/25 17:00
Total/NA	Analysis	SM 4500 F C		1	181387	MH2L	EA POM	10/21/25 21:16
Total/NA	Analysis	SM 4500 H+ B		1	181108	MH2L	EA POM	10/20/25 23:59
Total/NA	Analysis	SM 4500 S2 D		1	180853	ZJ2C	EA POM	10/20/25 13:02

**Client Sample ID: TB: Ka'amilo Wells P2**

**Lab Sample ID: 380-177798-2**

**Date Collected: 10/16/25 10:56**

**Matrix: Water**

**Date Received: 10/17/25 09:25**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	524.2		1	181139	YNB8	EA POM	10/21/25 17:45
Total/NA	Analysis	524.2		1	181598	YXX2	EA POM	10/21/25 17:45
Total/NA	Analysis	8015B GRO LL		1	646186	YD9V	EET CAL 4	10/26/25 05:14
Total/NA	Prep	504.1			181489	GVC6	EA POM	10/22/25 16:02 - 10/22/25 17:33 <sup>1</sup>
Total/NA	Analysis	504.1		1	181825	GVC6	EA POM	10/23/25 02:44

<sup>1</sup> This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

# Lab Chronicle

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

Job ID: 380-177798-1  
SDG: Quarterly: Ka'amilo Wells P2

## 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

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# Accreditation/Certification Summary

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

Job ID: 380-177798-1  
 SDG: Quarterly: Ka'amilo Wells P2

## 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
505	505	Water	Polychlorinated biphenyls, Total
524.2		Water	1,3-Dichloropropene, Total
524.2		Water	2-Butanone (MEK)
524.2		Water	Acetone
524.2		Water	Bromodichloromethane
524.2		Water	Bromoethane
524.2		Water	Bromoform
524.2		Water	Chlorodibromomethane
524.2		Water	Chloroform (Trichloromethane)
524.2		Water	m,p Xylenes
524.2		Water	o-Xylene
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

# Accreditation/Certification Summary

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

Job ID: 380-177798-1  
 SDG: Quarterly: Ka'amilo Wells P2

## Laboratory: Eurofins Eaton Analytical Pomona (Continued)

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

Authority	Program	Identification Number	Expiration Date
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
SM 2320B		Water	Bicarbonate Alkalinity as CaCO3
SM 2320B		Water	Carbonate Alkalinity as CaCO3
SM 4500 S2 D		Water	Sulfide

## 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	11-15-25
California	Los Angeles County Sanitation Districts	9257304	07-31-26
California	SCAQMD LAP	17LA0919	11-30-25
California	State	3082	07-31-26
Kansas	NELAP	E-10420	07-31-26
Nevada	State	CA00111	07-31-26
Oregon	NELAP	4175	02-02-26
USDA	US Federal Programs	525-23-159-97150	06-08-26
Utah	NELAP	CA00111	02-28-26
Washington	State	C916	10-11-26

# Method Summary

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

Job ID: 380-177798-1  
SDG: Quarterly: Ka'amilo Wells P2

Method	Method Description	Protocol	Laboratory
524.2	Total Trihalomethanes	EPA-DW	EA POM
524.2	Volatile Organic Compounds (GC/MS)	EPA-DW	EA POM
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
504.1	EDB, DBCP and 1,2,3-TCP (GC)	EPA-DW2	EA POM
505	Organochlorine Pesticides/PCBs (GC)	EPA	EA POM
8015B	Diesel Range Organics (DRO) (GC) Low Level	SW846	EET CAL 4
8015B	Nonhalogenated Organic Compounds - Direct Injection (GC)	SW846	EET CAL 4
300.0	Anions, Ion Chromatography	EPA	EA POM
200.7 Rev 4.4	Metals (ICP)	EPA	EA POM
200.8	Mercury (ICP/MS)	EPA	EA POM
200.8	Metals (ICP/MS)	EPA	EA POM
SM 2320B	Alkalinity	SM	EA POM
SM 2510B	Conductivity, Specific Conductance	SM	EA POM
SM 2540C	Solids, Total Dissolved (TDS)	SM	EA POM
SM 4500 F C	Fluoride	SM	EA POM
SM 4500 H+ B	pH	SM	EA POM
SM 4500 S2 D	Sulfide, Total	SM	EA POM
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET CAL 4
5030C	Purge and Trap	SW846	EET CAL 4
504.1	Microextraction	EPA-DW	EA POM
505	Extraction, Organohalide Pesticides	EPA	EA POM
525.2	Extraction of Semivolatile Compounds	EPA	EA POM
625.1	Liquid-Liquid Extraction	40CFR136A	EET CAL 4
None	Autocomplete Prep - Metals - No Digestion required	None	EA POM

## 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

EPA-DW = "Methods For The Determination Of Organic Compounds In Drinking Water", EPA/600/4-88/039, December 1988 And Its Supplements.

EPA-DW2 = "Methods For The Determination of Organic Compounds in Drinking Water - Supplement III ", EPA/600/R-95-131, August 1995

None = None

SM = "Standard Methods For The Examination Of Water And Wastewater"

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: 380-177798-1  
SDG: Quarterly: Ka'amilo Wells P2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
380-177798-1	Ka'amilo Wells P2	Water	10/16/25 10:56	10/17/25 09:25	Hawaii
380-177798-2	TB: Ka'amilo Wells P2	Water	10/16/25 10:56	10/17/25 09:25	Hawaii

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**Monrovia, CA (Suite 100)**  
 750 Royal Oaks Drive Suite 100  
 Monrovia CA 91016  
 Phone (626) 396-1100



Environment Testing  
 America

# Chain of Custody Record

<b>Client Information</b>		Sampler Bailey	Lab PM. Arada Rachelle	Carrier Tracking No(s)	COC No:
Client Contact: Kirk Iwamoto		Phone: +1 8087485840	E-Mail: Rachelle.Arada@et.euronisus.com	State of Origin:	Page: Page 2 of 2
Company: City & County of Honolulu		PWSID:			
Address: 630 South Beretania Street, Chemistry Lab		Due Date Requested			
City: Honolulu		TAT Requested (days):			
State, Zip: HI 96843		Compliance Project: <input type="checkbox"/> No <input type="checkbox"/> Yes			
Phone: 808-748-5040 (tel)		PO #: C20525101 exp 05312023			
Email: kiwamoto@hbws.org		WO #:			
Project Name: RED-HILL		Project #: 38001111			
Site:		SSOW#:			
<b>Sample Identification</b>	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Sewage, Sludge, Other)	Field Filtered Sample (Yes or No)
Ka'amilo Wells P2	16-Oct-2025	1056		Water	<input checked="" type="checkbox"/>
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological Deliverable Requested I II III IV Other (specify)					
Empty Kit Relinquished by					
<input type="checkbox"/> Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological Deliverable Requested I II III IV Other (specify)					
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months					
Special Instructions/QC Requirements.					
Method of Shipment:					
Date/Time:		Date/Time:		Date/Time:	
16 Oct 2025 1400		16 Oct 2025 9:25		16 Oct 2025 9:25	
Relinquished by		Relinquished by		Relinquished by	
Company: HBWS		Company: HBWS		Company: HBWS	
Date/Time:		Date/Time:		Date/Time:	
16 Oct 2025 1400		16 Oct 2025 9:25		16 Oct 2025 9:25	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks: 39°C	



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

SHIP DATE: 16OCT25  
ACTWGT 62.00 LB  
CAD 258050552/INET4535  
BILL RECIPIENT

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

POMONA CA 91768 REF  
(626) 386-1100

58H14/008C/59F2

DEPT.



J25402502401iv

FRI - 17 OCT 10:30A  
PRIORITY OVERNIGHT

TRK# 8852 4650 7350  
0201

WM ONTA 91768  
CA-US ONT



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Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our Service Guide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

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**Eurofins Eaton Analytical Pomona**

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

**Chain of Custody Record**



Loc: 380  
**177798**

<b>Client Information (Sub Contract Lab)</b>	Sampler: N/A	Lab PM: Lopez, Maria	Carrier Tracking No(s): N/A	COC No: 380-266182.1
Client Contact:	Phone: N/A	E-Mail: Maria.Lopez@et.eurofinsus.com	State of Origin: Hawaii	Page: Page 1 of 1
Shipping/Receiving				

Company: Eurofins Environment Testing Southwest	Accreditations Required (See note): State - Hawaii	Job #: 380-177798-1
Address: 2841 Dow Avenue, Suite 100,		Preservation C

City: Tustin	TAT Requested (days): N/A	<b>Analysis Requested</b>				Total Number of Containers Special Other: N/A
State, Zip: CA, 92780		Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015B_DAEthanol	8015B_DRG_LL_CS/SS/OC_LLHNL Ranges: C10-C24/C24-C8/CR-C18	
Phone: 714-895-5494(Tel)	PO #: N/A			8015B_DRG_LL8030C(MOD) BRO	625.1_SIM625_Prep(MOD) Extended List	
Email: N/A	WO #: N/A					
Project Name: RED-HILL	Project #: 38001111					



Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wastewater, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015B_DAEthanol	8015B_DRG_LL_CS/SS/OC_LLHNL Ranges: C10-C24/C24-C8/CR-C18	8015B_DRG_LL8030C(MOD) BRO	625.1_SIM625_Prep(MOD) Extended List	Total Number of Containers	Special
Ka'amilo Wells P2 (380-177798-1)	10/16/25	10:56 Hawaiian	G	Water			X	X	X	X	6	MRLs are needed., MRLs are needed. Confirm any hits >RL.
TB: Ka'amilo Wells P2 (380-177798-2)	10/16/25	10:56 Hawaiian	G	Water					X		2	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)	Primary Deliverable Rank: 2	Special Instructions/QC Requirements:
--------------------------------------------------------	-----------------------------	---------------------------------------

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by: <i>[Signature]</i>	Date/Time: 10/20/25 11:30	Company: <i>[Signature]</i>	Received by: <i>[Signature]</i>
Relinquished by:	Date/Time:	Company:	Received by:
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: 1.6 / 2.1 IR-3
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## Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-177798-1  
SDG Number: Quarterly: Ka'amilo Wells P2

**Login Number: 177798**  
**List Number: 1**  
**Creator: Ngo, Theodore**

**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).	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: 380-177798-1  
SDG Number: Quarterly: Ka'amilo Wells P2

**Login Number: 177798**  
**List Number: 2**  
**Creator: Ferreira, Bruno**

**List Source: Eurofins Calscience**  
**List Creation: 10/20/25 01:37 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	Seal present with no number.
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	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.	N/A	

