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# ANALYTICAL REPORT

## PREPARED FOR

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City & County of Honolulu  
630 South Beretania Street  
Public Service Bldg. Room 310  
Honolulu, Hawaii 96843

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## JOB DESCRIPTION

RED-HILL  
Weekly: Ka'amilo Wells P1

## JOB NUMBER

380-192673-1

# Eurofins Pomona

## Job Notes

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

## Compliance Statement

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

## Authorization



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# Definitions/Glossary

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

Job ID: 380-192673-1  
SDG: Weekly: Ka'amilo Wells P1

## Qualifiers

### GC/MS Semi VOA

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

### 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  |
|-----------|--|
| J         | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| S1+       | Surrogate recovery exceeds control limits, high biased.  |

## Glossary

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

# Case Narrative

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

Job ID: 380-192673-1

**Job ID: 380-192673-1**

**Eurofins Pomona**

## Job Narrative 380-192673-1

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 1/15/2026 9:38 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 4.2°C.

### GC/MS Semi VOA

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

### Gasoline Range Organics

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

### Diesel Range Organics

Method 8015B: Surrogate recovery was outside acceptance limits for the following matrix spike/matrix spike duplicate (MS/MSD) sample: (380-192922-A-1-B MSD). The parent sample's surrogate recovery was within limits. The MS/MSD sample has been qualified and reported.

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

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# Detection Summary

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

Job ID: 380-192673-1  
SDG: Weekly: Ka'amilo Wells P1

## Client Sample ID: Ka'amilo Wells P1

Lab Sample ID: 380-192673-1

| Analyte                       | Result | Qualifier | RL     | Unit | Dil Fac | D | Method | Prep Type |
|-------------------------------|--------|-----------|--------|------|---------|---|--------|-----------|
| Dieldrin                      | 0.072  |           | 0.0098 | ug/L | 1       |   | 525.2  | Total/NA  |
| Heptachlor epoxide (isomer B) | 0.013  |           | 0.0098 | ug/L | 1       |   | 525.2  | Total/NA  |

## Client Sample ID: TB: Ka'amilo Wells P1

Lab Sample ID: 380-192673-2

No Detections.

This Detection Summary does not include radiochemical test results.



# Client Sample Results

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

Job ID: 380-192673-1  
SDG: Weekly: Ka'amilo Wells P1

**Client Sample ID: Ka'amilo Wells P1**

**Lab Sample ID: 380-192673-1**

Date Collected: 01/13/26 10:35

Matrix: Water

Date Received: 01/15/26 09:38

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

| Analyte                          | Result       | Qualifier | RL     | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------------------------------|--------------|-----------|--------|------|---|----------------|----------------|---------|
| 1-Methylnaphthalene              | <0.098       |           | 0.098  | ug/L |   | 01/19/26 14:33 | 01/20/26 16:19 | 1       |
| 2,4'-DDD                         | <0.098       |           | 0.098  | ug/L |   | 01/19/26 14:33 | 01/20/26 16:19 | 1       |
| 2,4'-DDE                         | <0.098       |           | 0.098  | ug/L |   | 01/19/26 14:33 | 01/20/26 16:19 | 1       |
| 2,4'-DDT                         | <0.098       |           | 0.098  | ug/L |   | 01/19/26 14:33 | 01/20/26 16:19 | 1       |
| 2,4-Dinitrotoluene               | <0.098       |           | 0.098  | ug/L |   | 01/19/26 14:33 | 01/20/26 16:19 | 1       |
| 2,6-Dinitrotoluene               | <0.098       |           | 0.098  | ug/L |   | 01/19/26 14:33 | 01/20/26 16:19 | 1       |
| 2-Methylnaphthalene              | <0.098       |           | 0.098  | ug/L |   | 01/19/26 14:33 | 01/20/26 16:19 | 1       |
| 4,4'-DDD                         | <0.098       |           | 0.098  | ug/L |   | 01/19/26 14:33 | 01/20/26 16:19 | 1       |
| 4,4'-DDE                         | <0.098       |           | 0.098  | ug/L |   | 01/19/26 14:33 | 01/20/26 16:19 | 1       |
| 4,4'-DDT                         | <0.098       |           | 0.098  | ug/L |   | 01/19/26 14:33 | 01/20/26 16:19 | 1       |
| Acenaphthene                     | <0.098       |           | 0.098  | ug/L |   | 01/19/26 14:33 | 01/20/26 16:19 | 1       |
| Acenaphthylene                   | <0.098       |           | 0.098  | ug/L |   | 01/19/26 14:33 | 01/20/26 16:19 | 1       |
| Acetochlor                       | <0.098       |           | 0.098  | ug/L |   | 01/19/26 14:33 | 01/20/26 16:19 | 1       |
| Alachlor                         | <0.049       |           | 0.049  | ug/L |   | 01/19/26 14:33 | 01/20/26 16:19 | 1       |
| alpha-BHC                        | <0.098       |           | 0.098  | ug/L |   | 01/19/26 14:33 | 01/20/26 16:19 | 1       |
| alpha-Chlordane                  | <0.049       |           | 0.049  | ug/L |   | 01/19/26 14:33 | 01/20/26 16:19 | 1       |
| Anthracene                       | <0.020       |           | 0.020  | ug/L |   | 01/19/26 14:33 | 01/20/26 16:19 | 1       |
| Atrazine                         | <0.049       |           | 0.049  | ug/L |   | 01/19/26 14:33 | 01/20/26 16:19 | 1       |
| Benz(a)anthracene                | <0.049       |           | 0.049  | ug/L |   | 01/19/26 14:33 | 01/20/26 16:19 | 1       |
| Benzo[a]pyrene                   | <0.020       |           | 0.020  | ug/L |   | 01/19/26 14:33 | 01/20/26 16:19 | 1       |
| Benzo[b]fluoranthene             | <0.020       |           | 0.020  | ug/L |   | 01/19/26 14:33 | 01/20/26 16:19 | 1       |
| Benzo[g,h,i]perylene             | <0.049       |           | 0.049  | ug/L |   | 01/19/26 14:33 | 01/20/26 16:19 | 1       |
| Benzo[k]fluoranthene             | <0.020       |           | 0.020  | ug/L |   | 01/19/26 14:33 | 01/20/26 16:19 | 1       |
| beta-BHC                         | <0.098       |           | 0.098  | ug/L |   | 01/19/26 14:33 | 01/20/26 16:19 | 1       |
| Bis(2-ethylhexyl) phthalate      | <0.59        |           | 0.59   | ug/L |   | 01/19/26 14:33 | 01/20/26 16:19 | 1       |
| Bromacil                         | <0.098       |           | 0.098  | ug/L |   | 01/19/26 14:33 | 01/20/26 16:19 | 1       |
| Butachlor                        | <0.049       |           | 0.049  | ug/L |   | 01/19/26 14:33 | 01/20/26 16:19 | 1       |
| Butylbenzylphthalate             | <0.49        |           | 0.49   | ug/L |   | 01/19/26 14:33 | 01/20/26 16:19 | 1       |
| Chlorobenzilate                  | <0.098       |           | 0.098  | ug/L |   | 01/19/26 14:33 | 01/20/26 16:19 | 1       |
| Chloroneb                        | <0.098       |           | 0.098  | ug/L |   | 01/19/26 14:33 | 01/20/26 16:19 | 1       |
| Chlorothalonil (Draconil, Bravo) | <0.098       |           | 0.098  | ug/L |   | 01/19/26 14:33 | 01/20/26 16:19 | 1       |
| Chlorpyrifos                     | <0.049       |           | 0.049  | ug/L |   | 01/19/26 14:33 | 01/20/26 16:19 | 1       |
| Chrysene                         | <0.020       |           | 0.020  | ug/L |   | 01/19/26 14:33 | 01/20/26 16:19 | 1       |
| delta-BHC                        | <0.098       |           | 0.098  | ug/L |   | 01/19/26 14:33 | 01/20/26 16:19 | 1       |
| Di(2-ethylhexyl)adipate          | <0.59        |           | 0.59   | ug/L |   | 01/19/26 14:33 | 01/20/26 16:19 | 1       |
| Dibenz(a,h)anthracene            | <0.049       |           | 0.049  | ug/L |   | 01/19/26 14:33 | 01/20/26 16:19 | 1       |
| Diclorvos (DDVP)                 | <0.049       |           | 0.049  | ug/L |   | 01/19/26 14:33 | 01/20/26 16:19 | 1       |
| <b>Dieldrin</b>                  | <b>0.072</b> |           | 0.0098 | ug/L |   | 01/19/26 14:33 | 01/20/26 16:19 | 1       |
| Diethylphthalate                 | <0.49        |           | 0.49   | ug/L |   | 01/19/26 14:33 | 01/20/26 16:19 | 1       |
| Dimethylphthalate                | <0.49        |           | 0.49   | ug/L |   | 01/19/26 14:33 | 01/20/26 16:19 | 1       |
| Di-n-butyl phthalate             | <0.98        |           | 0.98   | ug/L |   | 01/19/26 14:33 | 01/20/26 16:19 | 1       |
| Di-n-octyl phthalate             | <0.098       |           | 0.098  | ug/L |   | 01/19/26 14:33 | 01/20/26 16:19 | 1       |
| Endosulfan I (Alpha)             | <0.098       |           | 0.098  | ug/L |   | 01/19/26 14:33 | 01/20/26 16:19 | 1       |
| Endosulfan II (Beta)             | <0.098       |           | 0.098  | ug/L |   | 01/19/26 14:33 | 01/20/26 16:19 | 1       |
| Endosulfan sulfate               | <0.098       |           | 0.098  | ug/L |   | 01/19/26 14:33 | 01/20/26 16:19 | 1       |
| Endrin                           | <0.0098      |           | 0.0098 | ug/L |   | 01/19/26 14:33 | 01/20/26 16:19 | 1       |
| Endrin aldehyde                  | <0.098       |           | 0.098  | ug/L |   | 01/19/26 14:33 | 01/20/26 16:19 | 1       |
| EPTC                             | <0.098       |           | 0.098  | ug/L |   | 01/19/26 14:33 | 01/20/26 16:19 | 1       |
| Fluoranthene                     | <0.098       |           | 0.098  | ug/L |   | 01/19/26 14:33 | 01/20/26 16:19 | 1       |

# Client Sample Results

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

Job ID: 380-192673-1  
SDG: Weekly: Ka'amilo Wells P1

**Client Sample ID: Ka'amilo Wells P1**

**Lab Sample ID: 380-192673-1**

Date Collected: 01/13/26 10:35

Matrix: Water

Date Received: 01/15/26 09:38

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

| Analyte                              | Result       | Qualifier | RL     | Unit | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------------|-----------|--------|------|---|----------------|----------------|---------|
| Fluorene                             | <0.049       |           | 0.049  | ug/L |   | 01/19/26 14:33 | 01/20/26 16:19 | 1       |
| gamma-Chlordane                      | <0.049       |           | 0.049  | ug/L |   | 01/19/26 14:33 | 01/20/26 16:19 | 1       |
| Heptachlor                           | <0.0098      |           | 0.0098 | ug/L |   | 01/19/26 14:33 | 01/20/26 16:19 | 1       |
| <b>Heptachlor epoxide (isomer B)</b> | <b>0.013</b> |           | 0.0098 | ug/L |   | 01/19/26 14:33 | 01/20/26 16:19 | 1       |
| Hexachlorobenzene                    | <0.049       |           | 0.049  | ug/L |   | 01/19/26 14:33 | 01/20/26 16:19 | 1       |
| Hexachlorocyclopentadiene            | <0.049       |           | 0.049  | ug/L |   | 01/19/26 14:33 | 01/20/26 16:19 | 1       |
| Indeno[1,2,3-cd]pyrene               | <0.049       |           | 0.049  | ug/L |   | 01/19/26 14:33 | 01/20/26 16:19 | 1       |
| Isophorone                           | <0.098       |           | 0.098  | ug/L |   | 01/19/26 14:33 | 01/20/26 16:19 | 1       |
| Lindane                              | <0.0098      |           | 0.0098 | ug/L |   | 01/19/26 14:33 | 01/20/26 16:19 | 1       |
| Malathion                            | <0.098       |           | 0.098  | ug/L |   | 01/19/26 14:33 | 01/20/26 16:19 | 1       |
| Methoxychlor                         | <0.049       |           | 0.049  | ug/L |   | 01/19/26 14:33 | 01/20/26 16:19 | 1       |
| Metolachlor                          | <0.049       |           | 0.049  | ug/L |   | 01/19/26 14:33 | 01/20/26 16:19 | 1       |
| Molinate                             | <0.098       |           | 0.098  | ug/L |   | 01/19/26 14:33 | 01/20/26 16:19 | 1       |
| Naphthalene                          | <0.098       |           | 0.098  | ug/L |   | 01/19/26 14:33 | 01/20/26 16:19 | 1       |
| Parathion                            | <0.098       |           | 0.098  | ug/L |   | 01/19/26 14:33 | 01/20/26 16:19 | 1       |
| Pendimethalin (Penoxaline)           | <0.098       |           | 0.098  | ug/L |   | 01/19/26 14:33 | 01/20/26 16:19 | 1       |
| Phenanthrene                         | <0.039       |           | 0.039  | ug/L |   | 01/19/26 14:33 | 01/20/26 16:19 | 1       |
| Propachlor                           | <0.049       |           | 0.049  | ug/L |   | 01/19/26 14:33 | 01/20/26 16:19 | 1       |
| Pyrene                               | <0.049       |           | 0.049  | ug/L |   | 01/19/26 14:33 | 01/20/26 16:19 | 1       |
| Simazine                             | <0.049       |           | 0.049  | ug/L |   | 01/19/26 14:33 | 01/20/26 16:19 | 1       |
| Terbacil                             | <0.098       |           | 0.098  | ug/L |   | 01/19/26 14:33 | 01/20/26 16:19 | 1       |
| Terbutylazine                        | <0.098       |           | 0.098  | ug/L |   | 01/19/26 14:33 | 01/20/26 16:19 | 1       |
| Thiobencarb                          | <0.098       |           | 0.098  | ug/L |   | 01/19/26 14:33 | 01/20/26 16:19 | 1       |
| Total Permethrin (mixed isomers)     | <0.20        |           | 0.20   | ug/L |   | 01/19/26 14:33 | 01/20/26 16:19 | 1       |
| trans-Nonachlor                      | <0.049       |           | 0.049  | ug/L |   | 01/19/26 14:33 | 01/20/26 16:19 | 1       |
| Trifluralin                          | <0.098       |           | 0.098  | ug/L |   | 01/19/26 14:33 | 01/20/26 16:19 | 1       |

| Tentatively Identified Compound | Est. Result | Qualifier | Unit | D | RT | CAS No. | Prepared       | Analyzed       | Dil Fac |
|---------------------------------|-------------|-----------|------|---|----|---------|----------------|----------------|---------|
| Tentatively Identified Compound | None        |           | ug/L |   |    | N/A     | 01/19/26 14:33 | 01/20/26 16:19 | 1       |

| Surrogate          | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|--------------------|-----------|-----------|----------|----------------|----------------|---------|
| 2-Nitro-m-xylene   | 98        |           | 70 - 130 | 01/19/26 14:33 | 01/20/26 16:19 | 1       |
| Perylene-d12       | 94        |           | 70 - 130 | 01/19/26 14:33 | 01/20/26 16:19 | 1       |
| Triphenylphosphate | 99        |           | 70 - 130 | 01/19/26 14:33 | 01/20/26 16:19 | 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 |   | 01/20/26 06:00 | 01/28/26 14:07 | 1       |
| 2-Methylnaphthalene   | <0.19  |           | 0.19 | ug/L |   | 01/20/26 06:00 | 01/28/26 14:07 | 1       |
| Acenaphthene          | <0.19  |           | 0.19 | ug/L |   | 01/20/26 06:00 | 01/28/26 14:07 | 1       |
| Acenaphthylene        | <0.19  |           | 0.19 | ug/L |   | 01/20/26 06:00 | 01/28/26 14:07 | 1       |
| Anthracene            | <0.19  |           | 0.19 | ug/L |   | 01/20/26 06:00 | 01/28/26 14:07 | 1       |
| Benzo[a]anthracene    | <0.19  |           | 0.19 | ug/L |   | 01/20/26 06:00 | 01/28/26 14:07 | 1       |
| Benzo[a]pyrene        | <0.19  |           | 0.19 | ug/L |   | 01/20/26 06:00 | 01/28/26 14:07 | 1       |
| Benzo[b]fluoranthene  | <0.19  |           | 0.19 | ug/L |   | 01/20/26 06:00 | 01/28/26 14:07 | 1       |
| Benzo[g,h,i]perylene  | <0.19  |           | 0.19 | ug/L |   | 01/20/26 06:00 | 01/28/26 14:07 | 1       |
| Benzo[k]fluoranthene  | <0.19  |           | 0.19 | ug/L |   | 01/20/26 06:00 | 01/28/26 14:07 | 1       |
| Chrysene              | <0.19  |           | 0.19 | ug/L |   | 01/20/26 06:00 | 01/28/26 14:07 | 1       |
| Dibenz(a,h)anthracene | <0.19  |           | 0.19 | ug/L |   | 01/20/26 06:00 | 01/28/26 14:07 | 1       |
| Fluoranthene          | <0.19  |           | 0.19 | ug/L |   | 01/20/26 06:00 | 01/28/26 14:07 | 1       |

Eurofins Pomona

# Client Sample Results

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

Job ID: 380-192673-1  
SDG: Weekly: Ka'amilo Wells P1

**Client Sample ID: Ka'amilo Wells P1**

**Lab Sample ID: 380-192673-1**

Date Collected: 01/13/26 10:35

Matrix: Water

Date Received: 01/15/26 09:38

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

| Analyte                | Result | Qualifier | RL   | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------------------|--------|-----------|------|------|---|----------------|----------------|---------|
| Fluorene               | <0.19  |           | 0.19 | ug/L |   | 01/20/26 06:00 | 01/28/26 14:07 | 1       |
| Indeno[1,2,3-cd]pyrene | <0.19  |           | 0.19 | ug/L |   | 01/20/26 06:00 | 01/28/26 14:07 | 1       |
| Naphthalene            | <0.19  |           | 0.19 | ug/L |   | 01/20/26 06:00 | 01/28/26 14:07 | 1       |
| Phenanthrene           | <0.19  |           | 0.19 | ug/L |   | 01/20/26 06:00 | 01/28/26 14:07 | 1       |
| Pyrene                 | <0.19  |           | 0.19 | ug/L |   | 01/20/26 06:00 | 01/28/26 14:07 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 2,4,6-Tribromophenol (Surr) | 77        |           | 28 - 127 | 01/20/26 06:00 | 01/28/26 14:07 | 1       |
| 2-Fluorobiphenyl (Surr)     | 65        |           | 31 - 120 | 01/20/26 06:00 | 01/28/26 14:07 | 1       |
| 2-Fluorophenol (Surr)       | 39        |           | 17 - 120 | 01/20/26 06:00 | 01/28/26 14:07 | 1       |
| Nitrobenzene-d5 (Surr)      | 66        |           | 27 - 120 | 01/20/26 06:00 | 01/28/26 14:07 | 1       |
| Phenol-d6 (Surr)            | 25        |           | 10 - 120 | 01/20/26 06:00 | 01/28/26 14:07 | 1       |
| p-Terphenyl-d14 (Surr)      | 66        |           | 45 - 120 | 01/20/26 06:00 | 01/28/26 14:07 | 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     | 01/20/26 06:00 | 01/29/26 19:47 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 2,4,6-Tribromophenol (Surr) | 49        |           | 33 - 139 | 01/20/26 06:00 | 01/29/26 19:47 | 1       |
| 2-Fluorobiphenyl (Surr)     | 73        |           | 33 - 126 | 01/20/26 06:00 | 01/29/26 19:47 | 1       |
| 2-Fluorophenol (Surr)       | 45        |           | 12 - 120 | 01/20/26 06:00 | 01/29/26 19:47 | 1       |
| Nitrobenzene-d5 (Surr)      | 81        |           | 36 - 120 | 01/20/26 06:00 | 01/29/26 19:47 | 1       |
| Phenol-d6 (Surr)            | 27        |           | 10 - 120 | 01/20/26 06:00 | 01/29/26 19:47 | 1       |
| p-Terphenyl-d14 (Surr)      | 79        |           | 47 - 131 | 01/20/26 06:00 | 01/29/26 19:47 | 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 |   |          | 01/17/26 14:30 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 100       |           | 38 - 134 |          | 01/17/26 14:30 | 1       |

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

| Analyte                            | Result | Qualifier | RL | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------------|--------|-----------|----|------|---|----------------|----------------|---------|
| Diesel Range Organics (C10-C24)    | <26    |           | 26 | ug/L |   | 01/19/26 10:30 | 01/24/26 23:16 | 1       |
| Motor Oil Range Organics [C24-C36] | <26    |           | 26 | ug/L |   | 01/19/26 10:30 | 01/24/26 23:16 | 1       |
| C8-C18                             | <26    |           | 26 | ug/L |   | 01/19/26 10:30 | 01/24/26 23:16 | 1       |

| Surrogate           | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|---------------------|-----------|-----------|----------|----------------|----------------|---------|
| n-Octacosane (Surr) | 109       |           | 60 - 130 | 01/19/26 10:30 | 01/24/26 23:16 | 1       |

**Client Sample ID: TB: Ka'amilo Wells P1**

**Lab Sample ID: 380-192673-2**

Date Collected: 01/13/26 10:35

Matrix: Water

Date Received: 01/15/26 09:38

**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 |   |          | 01/17/26 17:36 | 1       |

# Client Sample Results

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

Job ID: 380-192673-1  
SDG: Weekly: Ka'amilo Wells P1

**Client Sample ID: TB: Ka'amilo Wells P1**

**Lab Sample ID: 380-192673-2**

Date Collected: 01/13/26 10:35

Matrix: Water

Date Received: 01/15/26 09:38

| <u>Surrogate</u>            | <u>%Recovery</u> | <u>Qualifier</u> | <u>Limits</u> | <u>Prepared</u> | <u>Analyzed</u> | <u>Dil Fac</u> |
|-----------------------------|------------------|------------------|---------------|-----------------|-----------------|----------------|
| 4-Bromofluorobenzene (Surr) | 97               |                  | 38 - 134      |                 | 01/17/26 17:36  | 1              |

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

# Action Limit Summary

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

Job ID: 380-192673-1  
SDG: Weekly: Ka'amilo Wells P1

**Client Sample ID: Ka'amilo Wells P1**

**Lab Sample ID: 380-192673-1**

## Compliance Check

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

| Analyte                       | Result  | Qualifier | Unit | EPAMCL<br>Limit | RL     | Method    | Prep Type |
|-------------------------------|---------|-----------|------|-----------------|--------|-----------|-----------|
| Alachlor                      | <0.049  |           | ug/L | 2               | 0.049  | 525.2     | Total/NA  |
| Atrazine                      | <0.049  |           | ug/L | 3               | 0.049  | 525.2     | Total/NA  |
| Benzo[a]pyrene                | <0.020  |           | ug/L | 0.2             | 0.020  | 525.2     | Total/NA  |
| Bis(2-ethylhexyl) phthalate   | <0.59   |           | ug/L | 6               | 0.59   | 525.2     | Total/NA  |
| Di(2-ethylhexyl)adipate       | <0.59   |           | ug/L | 400             | 0.59   | 525.2     | Total/NA  |
| Endrin                        | <0.0098 |           | ug/L | 2               | 0.0098 | 525.2     | Total/NA  |
| Heptachlor                    | <0.0098 |           | ug/L | 0.4             | 0.0098 | 525.2     | Total/NA  |
| Heptachlor epoxide (isomer B) | 0.013   |           | ug/L | 0.2             | 0.0098 | 525.2     | Total/NA  |
| Hexachlorobenzene             | <0.049  |           | ug/L | 1               | 0.049  | 525.2     | Total/NA  |
| Hexachlorocyclopentadiene     | <0.049  |           | ug/L | 50              | 0.049  | 525.2     | Total/NA  |
| Lindane                       | <0.0098 |           | ug/L | 0.2             | 0.0098 | 525.2     | Total/NA  |
| Methoxychlor                  | <0.049  |           | ug/L | 40              | 0.049  | 525.2     | Total/NA  |
| Simazine                      | <0.049  |           | ug/L | 4               | 0.049  | 525.2     | Total/NA  |
| Benzo[a]pyrene                | <0.19   |           | ug/L | 0.2             | 0.19   | 625.1 SIM | Total/NA  |

# Surrogate Summary

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

Job ID: 380-192673-1  
SDG: Weekly: Ka'amilo Wells P1

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

Matrix: Water

Prep Type: Total/NA

| Lab Sample ID        | Client Sample ID       | Percent Surrogate Recovery (Acceptance Limits) |                 |                 |
|----------------------|------------------------|--|-----------------|-----------------|
|                      |                        | 2NMX<br>(70-130)                               | PRY<br>(70-130) | TPP<br>(70-130) |
| 380-192673-1         | Ka'amilo Wells P1      | 98   | 94              | 99              |
| 380-192710-U-1-A MS  | Matrix Spike           | 101  | 98              | 101             |
| 380-192710-V-1-A MSD | Matrix Spike Duplicate | 101  | 97              | 103             |
| LCS 380-199062/23-A  | Lab Control Sample     | 98   | 99              | 100             |
| MB 380-199062/21-A   | Method Blank           | 100  | 93              | 97              |
| MRL 380-199062/22-A  | Lab Control Sample     | 101  | 94              | 97              |

**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<br>(33-139)                                | FBP<br>(33-126) | 2FP<br>(12-120) | NBZ<br>(36-120) | PHL6<br>(10-120) | TPHd14<br>(47-131) |
| 380-192673-1      | Ka'amilo Wells P1 | 49   | 73              | 45              | 81              | 27               | 79                 |
| MB 570-684318/1-A | Method Blank      | 67   | 87              | 61              | 101             | 37               | 88                 |

**Surrogate Legend**

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

## Method: 625.1 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<br>(28-127)                                | FBP<br>(31-120) | 2FP<br>(17-120) | NBZ<br>(27-120) | PHL6<br>(10-120) | TPHd14<br>(45-120) |
| 380-192673-1         | Ka'amilo Wells P1      | 77   | 65              | 39              | 66              | 25               | 66                 |
| 380-192972-A-1-A MS  | Matrix Spike           | 80   | 75              | 51              | 74              | 34               | 76                 |
| 380-192972-A-1-B MSD | Matrix Spike Duplicate | 86   | 80              | 54              | 80              | 36               | 82                 |
| LCS 570-684318/2-A   | Lab Control Sample     | 91   | 85              | 59              | 87              | 40               | 92                 |
| LCSD 570-684318/3-A  | Lab Control Sample Dup | 93   | 89              | 63              | 90              | 43               | 92                 |
| MB 570-684318/1-A    | Method Blank           | 102  | 87              | 57              | 89              | 37               | 84                 |

**Surrogate Legend**

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

# Surrogate Summary

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

Job ID: 380-192673-1  
 SDG: Weekly: Ka'amilo Wells P1

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

Matrix: Water

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

| Lab Sample ID      | Client Sample ID       | BFB1<br>(38-134) |
|--------------------|------------------------|------------------|
| 380-192673-1       | Ka'amilo Wells P1      | 100              |
| 380-192673-2       | TB: Ka'amilo Wells P1  | 97               |
| 380-192922-C-1 MS  | Matrix Spike           | 92               |
| 380-192922-C-1 MSD | Matrix Spike Duplicate | 96               |
| LCS 570-683659/3   | Lab Control Sample     | 87               |
| LCSD 570-683659/4  | Lab Control Sample Dup | 98               |
| MB 570-683659/5    | Method Blank           | 93               |
| MRL 570-683659/6   | Lab Control Sample     | 87               |

**Surrogate Legend**

BFB = 4-Bromofluorobenzene (Surr)

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

Matrix: Water

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

| Lab Sample ID        | Client Sample ID       | OTCSN1<br>(60-130) |
|----------------------|------------------------|--------------------|
| 380-192673-1         | Ka'amilo Wells P1      | 109                |
| 380-192922-A-1-A MS  | Matrix Spike           | 120                |
| 380-192922-A-1-B MSD | Matrix Spike Duplicate | 133 S1+            |
| LCS 570-684016/2-A   | Lab Control Sample     | 124                |
| LCSD 570-684016/3-A  | Lab Control Sample Dup | 130                |
| MB 570-684016/1-A    | Method Blank           | 123                |
| MRL 570-684016/4-A   | Lab Control Sample     | 122                |

**Surrogate Legend**

OTCSN = n-Octacosane (Surr)

# QC Sample Results

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

Job ID: 380-192673-1  
SDG: Weekly: Ka'amilo Wells P1

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

**Lab Sample ID: MB 380-199062/21-A**  
**Matrix: Water**  
**Analysis Batch: 199342**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 199062**

| Analyte                          | MB      | MB        | RL     | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------------------------------|---------|-----------|--------|------|---|----------------|----------------|---------|
|                                  | Result  | Qualifier |        |      |   |                |                |         |
| 1-Methylnaphthalene              | <0.098  |           | 0.098  | ug/L |   | 01/19/26 14:33 | 01/20/26 13:47 | 1       |
| 2,4'-DDD                         | <0.098  |           | 0.098  | ug/L |   | 01/19/26 14:33 | 01/20/26 13:47 | 1       |
| 2,4'-DDE                         | <0.098  |           | 0.098  | ug/L |   | 01/19/26 14:33 | 01/20/26 13:47 | 1       |
| 2,4'-DDT                         | <0.098  |           | 0.098  | ug/L |   | 01/19/26 14:33 | 01/20/26 13:47 | 1       |
| 2,4-Dinitrotoluene               | <0.098  |           | 0.098  | ug/L |   | 01/19/26 14:33 | 01/20/26 13:47 | 1       |
| 2,6-Dinitrotoluene               | <0.098  |           | 0.098  | ug/L |   | 01/19/26 14:33 | 01/20/26 13:47 | 1       |
| 2-Methylnaphthalene              | <0.098  |           | 0.098  | ug/L |   | 01/19/26 14:33 | 01/20/26 13:47 | 1       |
| 4,4'-DDD                         | <0.098  |           | 0.098  | ug/L |   | 01/19/26 14:33 | 01/20/26 13:47 | 1       |
| 4,4'-DDE                         | <0.098  |           | 0.098  | ug/L |   | 01/19/26 14:33 | 01/20/26 13:47 | 1       |
| 4,4'-DDT                         | <0.098  |           | 0.098  | ug/L |   | 01/19/26 14:33 | 01/20/26 13:47 | 1       |
| Acenaphthene                     | <0.098  |           | 0.098  | ug/L |   | 01/19/26 14:33 | 01/20/26 13:47 | 1       |
| Acenaphthylene                   | <0.098  |           | 0.098  | ug/L |   | 01/19/26 14:33 | 01/20/26 13:47 | 1       |
| Acetochlor                       | <0.098  |           | 0.098  | ug/L |   | 01/19/26 14:33 | 01/20/26 13:47 | 1       |
| Alachlor                         | <0.049  |           | 0.049  | ug/L |   | 01/19/26 14:33 | 01/20/26 13:47 | 1       |
| alpha-BHC                        | <0.098  |           | 0.098  | ug/L |   | 01/19/26 14:33 | 01/20/26 13:47 | 1       |
| alpha-Chlordane                  | <0.049  |           | 0.049  | ug/L |   | 01/19/26 14:33 | 01/20/26 13:47 | 1       |
| Anthracene                       | <0.020  |           | 0.020  | ug/L |   | 01/19/26 14:33 | 01/20/26 13:47 | 1       |
| Atrazine                         | <0.049  |           | 0.049  | ug/L |   | 01/19/26 14:33 | 01/20/26 13:47 | 1       |
| Benz(a)anthracene                | <0.049  |           | 0.049  | ug/L |   | 01/19/26 14:33 | 01/20/26 13:47 | 1       |
| Benzo[a]pyrene                   | <0.020  |           | 0.020  | ug/L |   | 01/19/26 14:33 | 01/20/26 13:47 | 1       |
| Benzo[b]fluoranthene             | <0.020  |           | 0.020  | ug/L |   | 01/19/26 14:33 | 01/20/26 13:47 | 1       |
| Benzo[g,h,i]perylene             | <0.049  |           | 0.049  | ug/L |   | 01/19/26 14:33 | 01/20/26 13:47 | 1       |
| Benzo[k]fluoranthene             | <0.020  |           | 0.020  | ug/L |   | 01/19/26 14:33 | 01/20/26 13:47 | 1       |
| beta-BHC                         | <0.098  |           | 0.098  | ug/L |   | 01/19/26 14:33 | 01/20/26 13:47 | 1       |
| Bis(2-ethylhexyl) phthalate      | <0.59   |           | 0.59   | ug/L |   | 01/19/26 14:33 | 01/20/26 13:47 | 1       |
| Bromacil                         | <0.098  |           | 0.098  | ug/L |   | 01/19/26 14:33 | 01/20/26 13:47 | 1       |
| Butachlor                        | <0.049  |           | 0.049  | ug/L |   | 01/19/26 14:33 | 01/20/26 13:47 | 1       |
| Butylbenzylphthalate             | <0.49   |           | 0.49   | ug/L |   | 01/19/26 14:33 | 01/20/26 13:47 | 1       |
| Chlorobenzilate                  | <0.098  |           | 0.098  | ug/L |   | 01/19/26 14:33 | 01/20/26 13:47 | 1       |
| Chloroneb                        | <0.098  |           | 0.098  | ug/L |   | 01/19/26 14:33 | 01/20/26 13:47 | 1       |
| Chlorothalonil (Draconil, Bravo) | <0.098  |           | 0.098  | ug/L |   | 01/19/26 14:33 | 01/20/26 13:47 | 1       |
| Chlorpyrifos                     | <0.049  |           | 0.049  | ug/L |   | 01/19/26 14:33 | 01/20/26 13:47 | 1       |
| Chrysene                         | <0.020  |           | 0.020  | ug/L |   | 01/19/26 14:33 | 01/20/26 13:47 | 1       |
| delta-BHC                        | <0.098  |           | 0.098  | ug/L |   | 01/19/26 14:33 | 01/20/26 13:47 | 1       |
| Di(2-ethylhexyl)adipate          | <0.59   |           | 0.59   | ug/L |   | 01/19/26 14:33 | 01/20/26 13:47 | 1       |
| Dibenz(a,h)anthracene            | <0.049  |           | 0.049  | ug/L |   | 01/19/26 14:33 | 01/20/26 13:47 | 1       |
| Diclorvos (DDVP)                 | <0.049  |           | 0.049  | ug/L |   | 01/19/26 14:33 | 01/20/26 13:47 | 1       |
| Dieldrin                         | <0.0098 |           | 0.0098 | ug/L |   | 01/19/26 14:33 | 01/20/26 13:47 | 1       |
| Diethylphthalate                 | <0.49   |           | 0.49   | ug/L |   | 01/19/26 14:33 | 01/20/26 13:47 | 1       |
| Dimethylphthalate                | <0.49   |           | 0.49   | ug/L |   | 01/19/26 14:33 | 01/20/26 13:47 | 1       |
| Di-n-butyl phthalate             | <0.98   |           | 0.98   | ug/L |   | 01/19/26 14:33 | 01/20/26 13:47 | 1       |
| Di-n-octyl phthalate             | <0.098  |           | 0.098  | ug/L |   | 01/19/26 14:33 | 01/20/26 13:47 | 1       |
| Endosulfan I (Alpha)             | <0.098  |           | 0.098  | ug/L |   | 01/19/26 14:33 | 01/20/26 13:47 | 1       |
| Endosulfan II (Beta)             | <0.098  |           | 0.098  | ug/L |   | 01/19/26 14:33 | 01/20/26 13:47 | 1       |
| Endosulfan sulfate               | <0.098  |           | 0.098  | ug/L |   | 01/19/26 14:33 | 01/20/26 13:47 | 1       |
| Endrin                           | <0.0098 |           | 0.0098 | ug/L |   | 01/19/26 14:33 | 01/20/26 13:47 | 1       |
| Endrin aldehyde                  | <0.098  |           | 0.098  | ug/L |   | 01/19/26 14:33 | 01/20/26 13:47 | 1       |
| EPTC                             | <0.098  |           | 0.098  | ug/L |   | 01/19/26 14:33 | 01/20/26 13:47 | 1       |

Eurofins Pomona

# QC Sample Results

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

Job ID: 380-192673-1  
SDG: Weekly: Ka'amilo Wells P1

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

**Lab Sample ID: MB 380-199062/21-A**  
**Matrix: Water**  
**Analysis Batch: 199342**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 199062**

| Analyte                          | MB      | MB        | RL     | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------------------------------|---------|-----------|--------|------|---|----------------|----------------|---------|
|                                  | Result  | Qualifier |        |      |   |                |                |         |
| Fluoranthene                     | <0.098  |           | 0.098  | ug/L |   | 01/19/26 14:33 | 01/20/26 13:47 | 1       |
| Fluorene                         | <0.049  |           | 0.049  | ug/L |   | 01/19/26 14:33 | 01/20/26 13:47 | 1       |
| gamma-Chlordane                  | <0.049  |           | 0.049  | ug/L |   | 01/19/26 14:33 | 01/20/26 13:47 | 1       |
| Heptachlor                       | <0.0098 |           | 0.0098 | ug/L |   | 01/19/26 14:33 | 01/20/26 13:47 | 1       |
| Heptachlor epoxide (isomer B)    | <0.0098 |           | 0.0098 | ug/L |   | 01/19/26 14:33 | 01/20/26 13:47 | 1       |
| Hexachlorobenzene                | <0.049  |           | 0.049  | ug/L |   | 01/19/26 14:33 | 01/20/26 13:47 | 1       |
| Hexachlorocyclopentadiene        | <0.049  |           | 0.049  | ug/L |   | 01/19/26 14:33 | 01/20/26 13:47 | 1       |
| Indeno[1,2,3-cd]pyrene           | <0.049  |           | 0.049  | ug/L |   | 01/19/26 14:33 | 01/20/26 13:47 | 1       |
| Isophorone                       | <0.098  |           | 0.098  | ug/L |   | 01/19/26 14:33 | 01/20/26 13:47 | 1       |
| Lindane                          | <0.0098 |           | 0.0098 | ug/L |   | 01/19/26 14:33 | 01/20/26 13:47 | 1       |
| Malathion                        | <0.098  |           | 0.098  | ug/L |   | 01/19/26 14:33 | 01/20/26 13:47 | 1       |
| Methoxychlor                     | <0.049  |           | 0.049  | ug/L |   | 01/19/26 14:33 | 01/20/26 13:47 | 1       |
| Metolachlor                      | <0.049  |           | 0.049  | ug/L |   | 01/19/26 14:33 | 01/20/26 13:47 | 1       |
| Molinate                         | <0.098  |           | 0.098  | ug/L |   | 01/19/26 14:33 | 01/20/26 13:47 | 1       |
| Naphthalene                      | <0.098  |           | 0.098  | ug/L |   | 01/19/26 14:33 | 01/20/26 13:47 | 1       |
| Parathion                        | <0.098  |           | 0.098  | ug/L |   | 01/19/26 14:33 | 01/20/26 13:47 | 1       |
| Pendimethalin (Penoxaline)       | <0.098  |           | 0.098  | ug/L |   | 01/19/26 14:33 | 01/20/26 13:47 | 1       |
| Phenanthrene                     | <0.039  |           | 0.039  | ug/L |   | 01/19/26 14:33 | 01/20/26 13:47 | 1       |
| Propachlor                       | <0.049  |           | 0.049  | ug/L |   | 01/19/26 14:33 | 01/20/26 13:47 | 1       |
| Pyrene                           | <0.049  |           | 0.049  | ug/L |   | 01/19/26 14:33 | 01/20/26 13:47 | 1       |
| Simazine                         | <0.049  |           | 0.049  | ug/L |   | 01/19/26 14:33 | 01/20/26 13:47 | 1       |
| Terbacil                         | <0.098  |           | 0.098  | ug/L |   | 01/19/26 14:33 | 01/20/26 13:47 | 1       |
| Terbutylazine                    | <0.098  |           | 0.098  | ug/L |   | 01/19/26 14:33 | 01/20/26 13:47 | 1       |
| Thiobencarb                      | <0.098  |           | 0.098  | ug/L |   | 01/19/26 14:33 | 01/20/26 13:47 | 1       |
| Total Permethrin (mixed isomers) | <0.20   |           | 0.20   | ug/L |   | 01/19/26 14:33 | 01/20/26 13:47 | 1       |
| trans-Nonachlor                  | <0.049  |           | 0.049  | ug/L |   | 01/19/26 14:33 | 01/20/26 13:47 | 1       |
| Trifluralin                      | <0.098  |           | 0.098  | ug/L |   | 01/19/26 14:33 | 01/20/26 13:47 | 1       |

| Tentatively Identified Compound      | MB          | MB        | Unit | D | RT    | CAS No.      | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-------------|-----------|------|---|-------|--------------|----------------|----------------|---------|
|                                      | Est. Result | Qualifier |      |   |       |              |                |                |         |
| Cyclopentene, 1,2,3,4,5-pentamethyl- | 0.881       | T J N     | ug/L |   | 2.64  | 1000154-28-6 | 01/19/26 14:33 | 01/20/26 13:47 | 1       |
| Heptadecane, 7-methyl-               | 0.730       | T J N     | ug/L |   | 3.10  | 20959-33-5   | 01/19/26 14:33 | 01/20/26 13:47 | 1       |
| Undecane                             | 3.02        | T J N     | ug/L |   | 3.23  | 1120-21-4    | 01/19/26 14:33 | 01/20/26 13:47 | 1       |
| Unknown                              | 0.718       | T J       | ug/L |   | 3.99  | N/A          | 01/19/26 14:33 | 01/20/26 13:47 | 1       |
| 9-Octadecenamide, (Z)-               | 1.11        | T J N     | ug/L |   | 8.09  | 301-02-0     | 01/19/26 14:33 | 01/20/26 13:47 | 1       |
| 13-Docosenamide, (Z)-                | 0.732       | T J N     | ug/L |   | 10.69 | 112-84-5     | 01/19/26 14:33 | 01/20/26 13:47 | 1       |

| Surrogate          | MB        | MB        | Limits   | Prepared       | Analyzed       | Dil Fac |
|--------------------|-----------|-----------|----------|----------------|----------------|---------|
|                    | %Recovery | Qualifier |          |                |                |         |
| 2-Nitro-m-xylene   | 100       |           | 70 - 130 | 01/19/26 14:33 | 01/20/26 13:47 | 1       |
| Perylene-d12       | 93        |           | 70 - 130 | 01/19/26 14:33 | 01/20/26 13:47 | 1       |
| Triphenylphosphate | 97        |           | 70 - 130 | 01/19/26 14:33 | 01/20/26 13:47 | 1       |

**Lab Sample ID: LCS 380-199062/23-A**  
**Matrix: Water**  
**Analysis Batch: 199342**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 199062**

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

Eurofins Pomona

# QC Sample Results

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

Job ID: 380-192673-1  
SDG: Weekly: Ka'amilo Wells P1

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

Lab Sample ID: LCS 380-199062/23-A

Matrix: Water

Analysis Batch: 199342

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 199062

| Analyte                          | Spike | LCS    | LCS       | Unit | D | %Rec | %Rec<br>Limits |
|----------------------------------|-------|--------|-----------|------|---|------|----------------|
|                                  | Added | Result | Qualifier |      |   |      |                |
| 2,4'-DDD                         | 1.97  | 2.04   |           | ug/L |   | 104  | 70 - 130       |
| 2,4'-DDE                         | 1.97  | 2.01   |           | ug/L |   | 102  | 70 - 130       |
| 2,4'-DDT                         | 1.97  | 2.12   |           | ug/L |   | 108  | 70 - 130       |
| 2,4-Dinitrotoluene               | 1.97  | 1.83   |           | ug/L |   | 93   | 70 - 130       |
| 2,6-Dinitrotoluene               | 1.97  | 1.74   |           | ug/L |   | 88   | 70 - 130       |
| 2-Methylnaphthalene              | 1.97  | 2.01   |           | ug/L |   | 102  | 70 - 130       |
| 4,4'-DDD                         | 1.97  | 2.15   |           | ug/L |   | 109  | 70 - 130       |
| 4,4'-DDE                         | 1.97  | 1.84   |           | ug/L |   | 94   | 70 - 130       |
| 4,4'-DDT                         | 1.97  | 2.09   |           | ug/L |   | 106  | 70 - 130       |
| Acenaphthene                     | 1.97  | 1.99   |           | ug/L |   | 101  | 70 - 130       |
| Acenaphthylene                   | 1.97  | 1.82   |           | ug/L |   | 93   | 70 - 130       |
| Acetochlor                       | 1.97  | 1.98   |           | ug/L |   | 101  | 70 - 130       |
| Alachlor                         | 1.97  | 1.97   |           | ug/L |   | 100  | 70 - 130       |
| alpha-BHC                        | 1.97  | 1.93   |           | ug/L |   | 98   | 70 - 130       |
| alpha-Chlordane                  | 1.97  | 1.98   |           | ug/L |   | 101  | 70 - 130       |
| Anthracene                       | 1.97  | 2.21   |           | ug/L |   | 113  | 70 - 130       |
| Atrazine                         | 1.97  | 2.16   |           | ug/L |   | 110  | 70 - 130       |
| Benz(a)anthracene                | 1.97  | 2.04   |           | ug/L |   | 104  | 70 - 130       |
| Benzo[a]pyrene                   | 1.97  | 2.24   |           | ug/L |   | 114  | 70 - 130       |
| Benzo[b]fluoranthene             | 1.97  | 2.07   |           | ug/L |   | 105  | 70 - 130       |
| Benzo[g,h,i]perylene             | 1.97  | 2.10   |           | ug/L |   | 107  | 70 - 130       |
| Benzo[k]fluoranthene             | 1.97  | 2.01   |           | ug/L |   | 102  | 70 - 130       |
| beta-BHC                         | 1.97  | 2.05   |           | ug/L |   | 104  | 70 - 130       |
| Bis(2-ethylhexyl) phthalate      | 1.97  | 2.04   |           | ug/L |   | 104  | 70 - 130       |
| Bromacil                         | 1.97  | 1.76   |           | ug/L |   | 90   | 70 - 130       |
| Butachlor                        | 1.97  | 2.11   |           | ug/L |   | 107  | 70 - 130       |
| Butylbenzylphthalate             | 1.97  | 2.17   |           | ug/L |   | 110  | 70 - 130       |
| Chlorobenzilate                  | 1.97  | 2.27   |           | ug/L |   | 115  | 70 - 130       |
| Chloroneb                        | 1.97  | 1.96   |           | ug/L |   | 100  | 70 - 130       |
| Chlorothalonil (Draconil, Bravo) | 1.97  | 2.12   |           | ug/L |   | 108  | 70 - 130       |
| Chlorpyrifos                     | 1.97  | 2.04   |           | ug/L |   | 104  | 70 - 130       |
| Chrysene                         | 1.97  | 1.94   |           | ug/L |   | 98   | 70 - 130       |
| delta-BHC                        | 1.97  | 1.96   |           | ug/L |   | 100  | 70 - 130       |
| Di(2-ethylhexyl)adipate          | 1.97  | 2.47   |           | ug/L |   | 126  | 70 - 130       |
| Dibenz(a,h)anthracene            | 1.97  | 2.25   |           | ug/L |   | 115  | 70 - 130       |
| Diclorvos (DDVP)                 | 1.97  | 2.06   |           | ug/L |   | 105  | 70 - 130       |
| Dieldrin                         | 1.97  | 2.05   |           | ug/L |   | 104  | 70 - 130       |
| Diethylphthalate                 | 1.97  | 1.99   |           | ug/L |   | 101  | 70 - 130       |
| Dimethylphthalate                | 1.97  | 1.85   |           | ug/L |   | 94   | 70 - 130       |
| Di-n-butyl phthalate             | 3.93  | 4.03   |           | ug/L |   | 102  | 70 - 130       |
| Di-n-octyl phthalate             | 1.97  | 2.11   |           | ug/L |   | 108  | 70 - 130       |
| Endosulfan I (Alpha)             | 1.97  | 2.05   |           | ug/L |   | 104  | 70 - 130       |
| Endosulfan II (Beta)             | 1.97  | 2.03   |           | ug/L |   | 103  | 70 - 130       |
| Endosulfan sulfate               | 1.97  | 2.17   |           | ug/L |   | 110  | 70 - 130       |
| Endrin                           | 1.97  | 2.23   |           | ug/L |   | 114  | 70 - 130       |
| Endrin aldehyde                  | 1.97  | 1.77   |           | ug/L |   | 90   | 60 - 130       |
| EPTC                             | 1.97  | 1.96   |           | ug/L |   | 100  | 70 - 130       |
| Fluoranthene                     | 1.97  | 2.24   |           | ug/L |   | 114  | 70 - 130       |
| Fluorene                         | 1.97  | 1.87   |           | ug/L |   | 95   | 70 - 130       |

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# QC Sample Results

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

Job ID: 380-192673-1  
SDG: Weekly: Ka'amilo Wells P1

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

Lab Sample ID: LCS 380-199062/23-A

Matrix: Water

Analysis Batch: 199342

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 199062

| Analyte                       | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|-------------------------------|-------------|------------|---------------|------|---|------|-------------|
|                               |             |            |               |      |   |      |             |
| gamma-Chlordane               | 1.97        | 1.93       |               | ug/L |   | 98   | 70 - 130    |
| Heptachlor                    | 1.97        | 1.87       |               | ug/L |   | 95   | 70 - 130    |
| Heptachlor epoxide (isomer B) | 1.97        | 1.65       |               | ug/L |   | 84   | 70 - 130    |
| Hexachlorobenzene             | 1.97        | 1.79       |               | ug/L |   | 91   | 70 - 130    |
| Hexachlorocyclopentadiene     | 1.97        | 1.96       |               | ug/L |   | 100  | 70 - 130    |
| Indeno[1,2,3-cd]pyrene        | 1.97        | 2.28       |               | ug/L |   | 116  | 70 - 130    |
| Isophorone                    | 1.97        | 1.98       |               | ug/L |   | 101  | 70 - 130    |
| Lindane                       | 1.97        | 2.02       |               | ug/L |   | 103  | 70 - 130    |
| Malathion                     | 1.97        | 2.17       |               | ug/L |   | 111  | 70 - 130    |
| Methoxychlor                  | 1.97        | 2.04       |               | ug/L |   | 104  | 70 - 130    |
| Metolachlor                   | 1.97        | 1.98       |               | ug/L |   | 101  | 70 - 130    |
| Molinate                      | 1.97        | 2.08       |               | ug/L |   | 106  | 70 - 130    |
| Naphthalene                   | 1.97        | 1.78       |               | ug/L |   | 90   | 70 - 130    |
| Parathion                     | 1.97        | 2.34       |               | ug/L |   | 119  | 70 - 130    |
| Pendimethalin (Penoxaline)    | 1.97        | 2.06       |               | ug/L |   | 105  | 70 - 130    |
| Phenanthrene                  | 1.97        | 1.93       |               | ug/L |   | 98   | 70 - 130    |
| Propachlor                    | 1.97        | 2.17       |               | ug/L |   | 110  | 70 - 130    |
| Pyrene                        | 1.97        | 2.35       |               | ug/L |   | 120  | 70 - 130    |
| Simazine                      | 1.97        | 2.16       |               | ug/L |   | 110  | 70 - 130    |
| Terbacil                      | 1.97        | 1.79       |               | ug/L |   | 91   | 70 - 130    |
| Terbuthylazine                | 1.97        | 2.21       |               | ug/L |   | 112  | 70 - 130    |
| Thiobencarb                   | 1.97        | 2.22       |               | ug/L |   | 113  | 70 - 130    |
| trans-Nonachlor               | 1.97        | 1.98       |               | ug/L |   | 101  | 70 - 130    |
| Trifluralin                   | 1.97        | 1.93       |               | ug/L |   | 98   | 70 - 130    |

| Surrogate          | LCS LCS   |           | Limits   |
|--------------------|-----------|-----------|----------|
|                    | %Recovery | Qualifier |          |
| 2-Nitro-m-xylene   | 98        |           | 70 - 130 |
| Perylene-d12       | 99        |           | 70 - 130 |
| Triphenylphosphate | 100       |           | 70 - 130 |

Lab Sample ID: MRL 380-199062/22-A

Matrix: Water

Analysis Batch: 199342

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 199062

| Analyte             | Spike Added | MRL Result | MRL Qualifier | Unit | D | %Rec | %Rec Limits |
|---------------------|-------------|------------|---------------|------|---|------|-------------|
|                     |             |            |               |      |   |      |             |
| 1-Methylnaphthalene | 0.0981      | 0.113      |               | ug/L |   | 116  | 50 - 150    |
| 2,4'-DDD            | 0.0981      | 0.0859     | J             | ug/L |   | 88   | 50 - 150    |
| 2,4'-DDE            | 0.0981      | 0.103      |               | ug/L |   | 105  | 50 - 150    |
| 2,4'-DDT            | 0.0981      | 0.0975     | J             | ug/L |   | 99   | 50 - 150    |
| 2,4-Dinitrotoluene  | 0.0981      | 0.0986     |               | ug/L |   | 100  | 50 - 150    |
| 2,6-Dinitrotoluene  | 0.0981      | 0.118      |               | ug/L |   | 121  | 50 - 150    |
| 2-Methylnaphthalene | 0.0981      | 0.108      |               | ug/L |   | 110  | 50 - 150    |
| 4,4'-DDD            | 0.0981      | 0.101      |               | ug/L |   | 103  | 50 - 150    |
| 4,4'-DDE            | 0.0981      | 0.0953     | J             | ug/L |   | 97   | 50 - 150    |
| 4,4'-DDT            | 0.0981      | 0.117      |               | ug/L |   | 119  | 50 - 150    |
| Acenaphthene        | 0.0981      | 0.0908     | J             | ug/L |   | 93   | 50 - 150    |
| Acenaphthylene      | 0.0981      | 0.0917     | J             | ug/L |   | 93   | 50 - 150    |
| Acetochlor          | 0.0981      | 0.126      |               | ug/L |   | 128  | 50 - 150    |

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# QC Sample Results

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

Job ID: 380-192673-1  
SDG: Weekly: Ka'amilo Wells P1

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

Lab Sample ID: MRL 380-199062/22-A

Matrix: Water

Analysis Batch: 199342

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 199062

| Analyte                          | Spike   | MRL     | MRL       | Unit | D | %Rec | %Rec<br>Limits |
|----------------------------------|---------|---------|-----------|------|---|------|----------------|
|                                  | Added   | Result  | Qualifier |      |   |      |                |
| Alachlor                         | 0.0491  | 0.0620  |           | ug/L |   | 126  | 50 - 150       |
| alpha-BHC                        | 0.0981  | 0.0991  |           | ug/L |   | 101  | 50 - 150       |
| alpha-Chlordane                  | 0.0245  | <0.028  |           | ug/L |   | 92   | 50 - 150       |
| Anthracene                       | 0.0196  | 0.0233  |           | ug/L |   | 119  | 50 - 150       |
| Atrazine                         | 0.0491  | 0.0558  |           | ug/L |   | 114  | 50 - 150       |
| Benz(a)anthracene                | 0.0491  | 0.0659  |           | ug/L |   | 134  | 50 - 150       |
| Benzo[a]pyrene                   | 0.0196  | 0.0262  |           | ug/L |   | 133  | 50 - 150       |
| Benzo[b]fluoranthene             | 0.0196  | 0.0241  |           | ug/L |   | 123  | 50 - 150       |
| Benzo[g,h,i]perylene             | 0.0491  | 0.0528  |           | ug/L |   | 108  | 50 - 150       |
| Benzo[k]fluoranthene             | 0.0196  | 0.0244  |           | ug/L |   | 124  | 50 - 150       |
| beta-BHC                         | 0.0981  | 0.101   |           | ug/L |   | 103  | 50 - 150       |
| Bis(2-ethylhexyl) phthalate      | 0.589   | 0.715   |           | ug/L |   | 121  | 50 - 150       |
| Bromacil                         | 0.0981  | 0.102   |           | ug/L |   | 104  | 50 - 150       |
| Butachlor                        | 0.0491  | 0.0665  |           | ug/L |   | 136  | 50 - 150       |
| Butylbenzylphthalate             | 0.491   | 0.611   |           | ug/L |   | 124  | 50 - 150       |
| Chlorobenzilate                  | 0.0981  | 0.107   |           | ug/L |   | 109  | 50 - 150       |
| Chloroneb                        | 0.0981  | 0.0987  |           | ug/L |   | 101  | 50 - 150       |
| Chlorothalonil (Draconil, Bravo) | 0.0981  | 0.0898  | J         | ug/L |   | 91   | 50 - 150       |
| Chlorpyrifos                     | 0.0491  | 0.0530  |           | ug/L |   | 108  | 50 - 150       |
| Chrysene                         | 0.0196  | 0.0227  |           | ug/L |   | 116  | 50 - 150       |
| delta-BHC                        | 0.0981  | 0.112   |           | ug/L |   | 114  | 50 - 150       |
| Di(2-ethylhexyl)adipate          | 0.589   | 0.807   |           | ug/L |   | 137  | 50 - 150       |
| Dibenz(a,h)anthracene            | 0.0491  | 0.0488  | J         | ug/L |   | 99   | 50 - 150       |
| Diclorvos (DDVP)                 | 0.0491  | 0.0618  |           | ug/L |   | 126  | 50 - 150       |
| Dieldrin                         | 0.00981 | 0.0109  |           | ug/L |   | 111  | 50 - 150       |
| Diethylphthalate                 | 0.491   | 0.558   |           | ug/L |   | 114  | 50 - 150       |
| Dimethylphthalate                | 0.491   | 0.489   | J         | ug/L |   | 100  | 50 - 150       |
| Di-n-butyl phthalate             | 0.491   | 0.559   | J         | ug/L |   | 114  | 49 - 243       |
| Di-n-octyl phthalate             | 0.0981  | 0.108   |           | ug/L |   | 110  | 50 - 150       |
| Endosulfan I (Alpha)             | 0.0981  | 0.0933  | J         | ug/L |   | 95   | 50 - 150       |
| Endosulfan II (Beta)             | 0.0981  | 0.100   |           | ug/L |   | 102  | 50 - 150       |
| Endosulfan sulfate               | 0.0981  | 0.0872  | J         | ug/L |   | 89   | 50 - 150       |
| Endrin                           | 0.00981 | 0.0121  |           | ug/L |   | 123  | 50 - 150       |
| Endrin aldehyde                  | 0.0981  | 0.101   |           | ug/L |   | 103  | 50 - 150       |
| EPTC                             | 0.0981  | 0.103   |           | ug/L |   | 104  | 50 - 150       |
| Fluoranthene                     | 0.0981  | 0.0990  |           | ug/L |   | 101  | 50 - 150       |
| Fluorene                         | 0.0491  | 0.0574  |           | ug/L |   | 117  | 50 - 150       |
| gamma-Chlordane                  | 0.0245  | 0.0244  | J         | ug/L |   | 99   | 50 - 150       |
| Heptachlor                       | 0.00981 | 0.0139  |           | ug/L |   | 141  | 50 - 150       |
| Heptachlor epoxide (isomer B)    | 0.00981 | 0.0101  |           | ug/L |   | 103  | 50 - 150       |
| Hexachlorobenzene                | 0.0491  | 0.0477  | J         | ug/L |   | 97   | 50 - 150       |
| Hexachlorocyclopentadiene        | 0.0491  | 0.0477  | J         | ug/L |   | 97   | 50 - 150       |
| Indeno[1,2,3-cd]pyrene           | 0.0491  | 0.0519  |           | ug/L |   | 106  | 50 - 150       |
| Isophorone                       | 0.0981  | 0.123   |           | ug/L |   | 125  | 50 - 150       |
| Lindane                          | 0.00981 | 0.00930 | J         | ug/L |   | 95   | 50 - 150       |
| Malathion                        | 0.0981  | 0.101   |           | ug/L |   | 103  | 50 - 150       |
| Methoxychlor                     | 0.0491  | 0.0584  |           | ug/L |   | 119  | 50 - 150       |
| Metolachlor                      | 0.0491  | 0.0599  |           | ug/L |   | 122  | 50 - 150       |
| Molinate                         | 0.0981  | 0.102   |           | ug/L |   | 104  | 50 - 150       |

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# QC Sample Results

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

Job ID: 380-192673-1  
SDG: Weekly: Ka'amilo Wells P1

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

**Lab Sample ID: MRL 380-199062/22-A**

**Matrix: Water**

**Analysis Batch: 199342**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 199062**

| Analyte                    | Spike Added | MRL Result | MRL Qualifier | Unit | D | %Rec | %Rec Limits |
|----------------------------|-------------|------------|---------------|------|---|------|-------------|
|                            |             |            |               |      |   |      |             |
| Naphthalene                | 0.0981      | 0.111      |               | ug/L |   | 113  | 50 - 150    |
| Parathion                  | 0.0981      | 0.0979     | J             | ug/L |   | 100  | 50 - 150    |
| Pendimethalin (Penoxaline) | 0.0981      | 0.0946     | J             | ug/L |   | 96   | 50 - 150    |
| Phenanthrene               | 0.0393      | 0.0424     |               | ug/L |   | 108  | 50 - 150    |
| Propachlor                 | 0.0491      | 0.0572     |               | ug/L |   | 117  | 50 - 150    |
| Pyrene                     | 0.0491      | 0.0494     |               | ug/L |   | 101  | 50 - 150    |
| Simazine                   | 0.0491      | 0.0457     | J             | ug/L |   | 93   | 50 - 150    |
| Terbacil                   | 0.0981      | 0.124      |               | ug/L |   | 127  | 50 - 150    |
| Terbutylazine              | 0.0981      | 0.107      |               | ug/L |   | 109  | 50 - 150    |
| Thiobencarb                | 0.0981      | 0.112      |               | ug/L |   | 114  | 50 - 150    |
| trans-Nonachlor            | 0.0245      | <0.026     |               | ug/L |   | 84   | 50 - 150    |
| Trifluralin                | 0.0981      | 0.0886     | J             | ug/L |   | 90   | 50 - 150    |

| Surrogate          | MRL       |           | Limits   |
|--------------------|-----------|-----------|----------|
|                    | %Recovery | Qualifier |          |
| 2-Nitro-m-xylene   | 101       |           | 70 - 130 |
| Perylene-d12       | 94        |           | 70 - 130 |
| Triphenylphosphate | 97        |           | 70 - 130 |

**Lab Sample ID: 380-192710-U-1-A MS**

**Matrix: Water**

**Analysis Batch: 199342**

**Client Sample ID: Matrix Spike**

**Prep Type: Total/NA**

**Prep Batch: 199062**

| Analyte                     | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|-----------------------------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
|                             |               |                  |             |           |              |      |   |      |             |
| 1-Methylnaphthalene         | <0.098        |                  | 1.97        | 2.01      |              | ug/L |   | 102  | 70 - 130    |
| 2,4'-DDD                    | <0.098        |                  | 1.97        | 2.01      |              | ug/L |   | 102  | 70 - 130    |
| 2,4'-DDE                    | <0.098        |                  | 1.97        | 1.94      |              | ug/L |   | 99   | 70 - 130    |
| 2,4'-DDT                    | <0.098        |                  | 1.97        | 2.03      |              | ug/L |   | 103  | 70 - 130    |
| 2,4-Dinitrotoluene          | <0.098        |                  | 1.97        | 2.07      |              | ug/L |   | 105  | 70 - 130    |
| 2,6-Dinitrotoluene          | <0.098        |                  | 1.97        | 1.93      |              | ug/L |   | 98   | 70 - 130    |
| 2-Methylnaphthalene         | <0.098        |                  | 1.97        | 2.05      |              | ug/L |   | 104  | 70 - 130    |
| 4,4'-DDD                    | <0.098        |                  | 1.97        | 2.10      |              | ug/L |   | 106  | 70 - 130    |
| 4,4'-DDE                    | <0.098        |                  | 1.97        | 1.74      |              | ug/L |   | 88   | 70 - 130    |
| 4,4'-DDT                    | <0.098        |                  | 1.97        | 2.01      |              | ug/L |   | 102  | 70 - 130    |
| Acenaphthene                | <0.098        |                  | 1.97        | 1.99      |              | ug/L |   | 101  | 70 - 130    |
| Acenaphthylene              | <0.098        |                  | 1.97        | 1.81      |              | ug/L |   | 92   | 70 - 130    |
| Acetochlor                  | <0.098        |                  | 1.97        | 1.98      |              | ug/L |   | 101  | 70 - 130    |
| Alachlor                    | <0.049        |                  | 1.97        | 1.95      |              | ug/L |   | 99   | 70 - 130    |
| alpha-BHC                   | <0.098        |                  | 1.97        | 1.94      |              | ug/L |   | 99   | 70 - 130    |
| alpha-Chlordane             | <0.049        |                  | 1.97        | 1.94      |              | ug/L |   | 98   | 70 - 130    |
| Anthracene                  | <0.020        |                  | 1.97        | 1.45      |              | ug/L |   | 74   | 70 - 130    |
| Atrazine                    | <0.049        |                  | 1.97        | 2.20      |              | ug/L |   | 112  | 70 - 130    |
| Benz(a)anthracene           | <0.049        |                  | 1.97        | 1.91      |              | ug/L |   | 97   | 70 - 130    |
| Benzo[a]pyrene              | <0.020        |                  | 1.97        | 2.03      |              | ug/L |   | 103  | 70 - 130    |
| Benzo[b]fluoranthene        | <0.020        |                  | 1.97        | 2.04      |              | ug/L |   | 104  | 70 - 130    |
| Benzo[g,h,i]perylene        | <0.049        |                  | 1.97        | 2.03      |              | ug/L |   | 103  | 70 - 130    |
| Benzo[k]fluoranthene        | <0.020        |                  | 1.97        | 1.99      |              | ug/L |   | 101  | 70 - 130    |
| beta-BHC                    | <0.098        |                  | 1.97        | 2.04      |              | ug/L |   | 103  | 70 - 130    |
| Bis(2-ethylhexyl) phthalate | <0.59         |                  | 1.97        | 1.83      |              | ug/L |   | 93   | 70 - 130    |

# QC Sample Results

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

Job ID: 380-192673-1  
SDG: Weekly: Ka'amilo Wells P1

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

**Lab Sample ID: 380-192710-U-1-A MS**

**Client Sample ID: Matrix Spike**

**Matrix: Water**

**Prep Type: Total/NA**

**Analysis Batch: 199342**

**Prep Batch: 199062**

| Analyte                          | Sample  | Sample    | Spike | MS     | MS        | Unit | D | %Rec | %Rec<br>Limits |
|----------------------------------|---------|-----------|-------|--------|-----------|------|---|------|----------------|
|                                  | Result  | Qualifier | Added | Result | Qualifier |      |   |      |                |
| Bromacil                         | <0.098  |           | 1.97  | 2.01   |           | ug/L |   | 102  | 70 - 130       |
| Butachlor                        | <0.049  |           | 1.97  | 2.15   |           | ug/L |   | 109  | 70 - 130       |
| Butylbenzylphthalate             | <0.49   |           | 1.97  | 2.15   |           | ug/L |   | 109  | 70 - 130       |
| Chlorobenzilate                  | <0.098  |           | 1.97  | 2.26   |           | ug/L |   | 115  | 70 - 130       |
| Chloroneb                        | <0.098  |           | 1.97  | 1.96   |           | ug/L |   | 100  | 70 - 130       |
| Chlorothalonil (Draconil, Bravo) | <0.098  |           | 1.97  | 2.10   |           | ug/L |   | 107  | 70 - 130       |
| Chlorpyrifos                     | <0.049  |           | 1.97  | 2.04   |           | ug/L |   | 103  | 70 - 130       |
| Chrysene                         | <0.020  |           | 1.97  | 1.90   |           | ug/L |   | 96   | 70 - 130       |
| delta-BHC                        | <0.098  |           | 1.97  | 1.96   |           | ug/L |   | 99   | 70 - 130       |
| Di(2-ethylhexyl)adipate          | <0.59   |           | 1.97  | 2.23   |           | ug/L |   | 113  | 70 - 130       |
| Dibenz(a,h)anthracene            | <0.049  |           | 1.97  | 2.15   |           | ug/L |   | 109  | 70 - 130       |
| Diclorvos (DDVP)                 | <0.049  |           | 1.97  | 2.17   |           | ug/L |   | 110  | 70 - 130       |
| Dieldrin                         | 0.016   |           | 1.97  | 2.02   |           | ug/L |   | 102  | 70 - 130       |
| Diethylphthalate                 | <0.49   |           | 1.97  | 1.99   |           | ug/L |   | 101  | 70 - 130       |
| Dimethylphthalate                | <0.49   |           | 1.97  | 1.92   |           | ug/L |   | 98   | 70 - 130       |
| Di-n-butyl phthalate             | <0.98   |           | 3.94  | 3.95   |           | ug/L |   | 100  | 70 - 130       |
| Di-n-octyl phthalate             | <0.098  |           | 1.97  | 1.85   |           | ug/L |   | 94   | 70 - 130       |
| Endosulfan I (Alpha)             | <0.098  |           | 1.97  | 2.05   |           | ug/L |   | 104  | 70 - 130       |
| Endosulfan II (Beta)             | <0.098  |           | 1.97  | 1.99   |           | ug/L |   | 101  | 70 - 130       |
| Endosulfan sulfate               | <0.098  |           | 1.97  | 2.17   |           | ug/L |   | 110  | 70 - 130       |
| Endrin                           | <0.0098 |           | 1.97  | 2.20   |           | ug/L |   | 112  | 70 - 130       |
| Endrin aldehyde                  | <0.098  |           | 1.97  | 1.56   |           | ug/L |   | 79   | 60 - 130       |
| EPTC                             | <0.098  |           | 1.97  | 2.02   |           | ug/L |   | 102  | 70 - 130       |
| Fluoranthene                     | <0.098  |           | 1.97  | 2.19   |           | ug/L |   | 111  | 70 - 130       |
| Fluorene                         | <0.049  |           | 1.97  | 1.88   |           | ug/L |   | 96   | 70 - 130       |
| gamma-Chlordane                  | <0.049  |           | 1.97  | 1.89   |           | ug/L |   | 96   | 70 - 130       |
| Heptachlor                       | <0.0098 |           | 1.97  | 1.89   |           | ug/L |   | 96   | 70 - 130       |
| Heptachlor epoxide (isomer B)    | <0.0098 |           | 1.97  | 1.63   |           | ug/L |   | 83   | 70 - 130       |
| Hexachlorobenzene                | <0.049  |           | 1.97  | 1.79   |           | ug/L |   | 91   | 70 - 130       |
| Hexachlorocyclopentadiene        | <0.049  |           | 1.97  | 2.01   |           | ug/L |   | 102  | 70 - 130       |
| Indeno[1,2,3-cd]pyrene           | <0.049  |           | 1.97  | 2.24   |           | ug/L |   | 114  | 70 - 130       |
| Isophorone                       | <0.098  |           | 1.97  | 2.04   |           | ug/L |   | 104  | 70 - 130       |
| Lindane                          | <0.0098 |           | 1.97  | 2.04   |           | ug/L |   | 103  | 70 - 130       |
| Malathion                        | <0.098  |           | 1.97  | 2.19   |           | ug/L |   | 111  | 70 - 130       |
| Methoxychlor                     | <0.049  |           | 1.97  | 2.08   |           | ug/L |   | 106  | 70 - 130       |
| Metolachlor                      | <0.049  |           | 1.97  | 1.98   |           | ug/L |   | 101  | 70 - 130       |
| Molinate                         | <0.098  |           | 1.97  | 2.11   |           | ug/L |   | 107  | 70 - 130       |
| Naphthalene                      | <0.098  |           | 1.97  | 1.84   |           | ug/L |   | 93   | 70 - 130       |
| Parathion                        | <0.098  |           | 1.97  | 2.39   |           | ug/L |   | 121  | 70 - 130       |
| Pendimethalin (Penoxaline)       | <0.098  |           | 1.97  | 2.11   |           | ug/L |   | 107  | 70 - 130       |
| Phenanthrene                     | <0.039  |           | 1.97  | 1.91   |           | ug/L |   | 97   | 70 - 130       |
| Propachlor                       | <0.049  |           | 1.97  | 2.21   |           | ug/L |   | 112  | 70 - 130       |
| Pyrene                           | <0.049  |           | 1.97  | 2.28   |           | ug/L |   | 116  | 70 - 130       |
| Simazine                         | <0.049  |           | 1.97  | 2.28   |           | ug/L |   | 116  | 70 - 130       |
| Terbacil                         | <0.098  |           | 1.97  | 2.00   |           | ug/L |   | 102  | 70 - 130       |
| Terbuthylazine                   | <0.098  |           | 1.97  | 2.23   |           | ug/L |   | 113  | 70 - 130       |
| Thiobencarb                      | <0.098  |           | 1.97  | 2.21   |           | ug/L |   | 112  | 70 - 130       |
| trans-Nonachlor                  | <0.049  |           | 1.97  | 1.95   |           | ug/L |   | 99   | 70 - 130       |
| Trifluralin                      | <0.098  |           | 1.97  | 1.99   |           | ug/L |   | 101  | 70 - 130       |

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# QC Sample Results

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

Job ID: 380-192673-1  
SDG: Weekly: Ka'amilo Wells P1

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

| Surrogate          | MS<br>%Recovery | MS<br>Qualifier | Limits   |
|--------------------|-----------------|-----------------|----------|
| 2-Nitro-m-xylene   | 101             |                 | 70 - 130 |
| Perylene-d12       | 98              |                 | 70 - 130 |
| Triphenylphosphate | 101             |                 | 70 - 130 |

**Lab Sample ID: 380-192710-V-1-A MSD**

**Matrix: Water**

**Analysis Batch: 199342**

**Client Sample ID: Matrix Spike Duplicate**

**Prep Type: Total/NA**

**Prep Batch: 199062**

| Analyte                          | Sample | Sample    | Spike | MSD    | MSD       | Unit | D | %Rec | %Rec     | RPD | RPD   |
|----------------------------------|--------|-----------|-------|--------|-----------|------|---|------|----------|-----|-------|
|                                  | Result | Qualifier | Added | Result | Qualifier |      |   |      | Limits   |     | Limit |
| 1-Methylnaphthalene              | <0.098 |           | 1.99  | 2.00   |           | ug/L |   | 101  | 70 - 130 | 0   | 20    |
| 2,4'-DDD                         | <0.098 |           | 1.99  | 2.02   |           | ug/L |   | 102  | 70 - 130 | 0   | 20    |
| 2,4'-DDE                         | <0.098 |           | 1.99  | 1.95   |           | ug/L |   | 98   | 70 - 130 | 0   | 20    |
| 2,4'-DDT                         | <0.098 |           | 1.99  | 2.05   |           | ug/L |   | 103  | 70 - 130 | 1   | 20    |
| 2,4-Dinitrotoluene               | <0.098 |           | 1.99  | 2.07   |           | ug/L |   | 104  | 70 - 130 | 0   | 20    |
| 2,6-Dinitrotoluene               | <0.098 |           | 1.99  | 1.95   |           | ug/L |   | 98   | 70 - 130 | 1   | 20    |
| 2-Methylnaphthalene              | <0.098 |           | 1.99  | 2.03   |           | ug/L |   | 102  | 70 - 130 | 1   | 20    |
| 4,4'-DDD                         | <0.098 |           | 1.99  | 2.12   |           | ug/L |   | 107  | 70 - 130 | 1   | 20    |
| 4,4'-DDE                         | <0.098 |           | 1.99  | 1.74   |           | ug/L |   | 87   | 70 - 130 | 0   | 20    |
| 4,4'-DDT                         | <0.098 |           | 1.99  | 2.02   |           | ug/L |   | 102  | 70 - 130 | 1   | 20    |
| Acenaphthene                     | <0.098 |           | 1.99  | 1.98   |           | ug/L |   | 100  | 70 - 130 | 0   | 20    |
| Acenaphthylene                   | <0.098 |           | 1.99  | 1.84   |           | ug/L |   | 92   | 70 - 130 | 2   | 20    |
| Acetochlor                       | <0.098 |           | 1.99  | 2.00   |           | ug/L |   | 101  | 70 - 130 | 1   | 20    |
| Alachlor                         | <0.049 |           | 1.99  | 1.99   |           | ug/L |   | 100  | 70 - 130 | 2   | 20    |
| alpha-BHC                        | <0.098 |           | 1.99  | 1.96   |           | ug/L |   | 99   | 70 - 130 | 1   | 20    |
| alpha-Chlordane                  | <0.049 |           | 1.99  | 1.96   |           | ug/L |   | 98   | 70 - 130 | 1   | 20    |
| Anthracene                       | <0.020 |           | 1.99  | 1.41   |           | ug/L |   | 71   | 70 - 130 | 3   | 20    |
| Atrazine                         | <0.049 |           | 1.99  | 2.22   |           | ug/L |   | 112  | 70 - 130 | 1   | 20    |
| Benz(a)anthracene                | <0.049 |           | 1.99  | 1.94   |           | ug/L |   | 98   | 70 - 130 | 2   | 20    |
| Benzo[a]pyrene                   | <0.020 |           | 1.99  | 2.04   |           | ug/L |   | 103  | 70 - 130 | 0   | 20    |
| Benzo[b]fluoranthene             | <0.020 |           | 1.99  | 2.07   |           | ug/L |   | 104  | 70 - 130 | 1   | 20    |
| Benzo[g,h,i]perylene             | <0.049 |           | 1.99  | 2.05   |           | ug/L |   | 103  | 70 - 130 | 1   | 20    |
| Benzo[k]fluoranthene             | <0.020 |           | 1.99  | 2.01   |           | ug/L |   | 101  | 70 - 130 | 1   | 20    |
| beta-BHC                         | <0.098 |           | 1.99  | 2.09   |           | ug/L |   | 105  | 70 - 130 | 2   | 20    |
| Bis(2-ethylhexyl) phthalate      | <0.59  |           | 1.99  | 1.81   |           | ug/L |   | 91   | 70 - 130 | 1   | 20    |
| Bromacil                         | <0.098 |           | 1.99  | 2.00   |           | ug/L |   | 101  | 70 - 130 | 1   | 20    |
| Butachlor                        | <0.049 |           | 1.99  | 2.16   |           | ug/L |   | 109  | 70 - 130 | 0   | 20    |
| Butylbenzylphthalate             | <0.49  |           | 1.99  | 2.22   |           | ug/L |   | 112  | 70 - 130 | 4   | 20    |
| Chlorobenzilate                  | <0.098 |           | 1.99  | 2.29   |           | ug/L |   | 115  | 70 - 130 | 1   | 20    |
| Chloroneb                        | <0.098 |           | 1.99  | 2.01   |           | ug/L |   | 101  | 70 - 130 | 2   | 20    |
| Chlorothalonil (Draconil, Bravo) | <0.098 |           | 1.99  | 2.13   |           | ug/L |   | 108  | 70 - 130 | 2   | 20    |
| Chlorpyrifos                     | <0.049 |           | 1.99  | 2.06   |           | ug/L |   | 104  | 70 - 130 | 1   | 20    |
| Chrysene                         | <0.020 |           | 1.99  | 1.94   |           | ug/L |   | 97   | 70 - 130 | 2   | 20    |
| delta-BHC                        | <0.098 |           | 1.99  | 1.97   |           | ug/L |   | 99   | 70 - 130 | 1   | 20    |
| Di(2-ethylhexyl)adipate          | <0.59  |           | 1.99  | 2.27   |           | ug/L |   | 114  | 70 - 130 | 1   | 20    |
| Dibenz(a,h)anthracene            | <0.049 |           | 1.99  | 2.15   |           | ug/L |   | 108  | 70 - 130 | 0   | 20    |
| Diclorvos (DDVP)                 | <0.049 |           | 1.99  | 2.18   |           | ug/L |   | 110  | 70 - 130 | 1   | 20    |
| Dieldrin                         | 0.016  |           | 1.99  | 2.08   |           | ug/L |   | 104  | 70 - 130 | 3   | 20    |
| Diethylphthalate                 | <0.49  |           | 1.99  | 2.03   |           | ug/L |   | 102  | 70 - 130 | 2   | 20    |
| Dimethylphthalate                | <0.49  |           | 1.99  | 1.91   |           | ug/L |   | 96   | 70 - 130 | 0   | 20    |
| Di-n-butyl phthalate             | <0.98  |           | 3.97  | 4.03   |           | ug/L |   | 102  | 70 - 130 | 2   | 20    |
| Di-n-octyl phthalate             | <0.098 |           | 1.99  | 1.81   |           | ug/L |   | 91   | 70 - 130 | 2   | 20    |

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# QC Sample Results

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

Job ID: 380-192673-1  
SDG: Weekly: Ka'amilo Wells P1

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

Lab Sample ID: 380-192710-V-1-A MSD

Client Sample ID: Matrix Spike Duplicate

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 199342

Prep Batch: 199062

| Analyte                       | Sample  | Sample    | Spike | MSD    | MSD       | Unit | D | %Rec | %Rec     | RPD | RPD   |
|-------------------------------|---------|-----------|-------|--------|-----------|------|---|------|----------|-----|-------|
|                               | Result  | Qualifier | Added | Result | Qualifier |      |   |      | Limits   |     | Limit |
| Endosulfan I (Alpha)          | <0.098  |           | 1.99  | 2.05   |           | ug/L |   | 103  | 70 - 130 | 0   | 20    |
| Endosulfan II (Beta)          | <0.098  |           | 1.99  | 2.00   |           | ug/L |   | 101  | 70 - 130 | 1   | 20    |
| Endosulfan sulfate            | <0.098  |           | 1.99  | 2.18   |           | ug/L |   | 110  | 70 - 130 | 0   | 20    |
| Endrin                        | <0.0098 |           | 1.99  | 2.23   |           | ug/L |   | 112  | 70 - 130 | 1   | 20    |
| Endrin aldehyde               | <0.098  |           | 1.99  | 1.58   |           | ug/L |   | 80   | 60 - 130 | 1   | 20    |
| EPTC                          | <0.098  |           | 1.99  | 2.01   |           | ug/L |   | 101  | 70 - 130 | 0   | 20    |
| Fluoranthene                  | <0.098  |           | 1.99  | 2.25   |           | ug/L |   | 113  | 70 - 130 | 2   | 20    |
| Fluorene                      | <0.049  |           | 1.99  | 1.89   |           | ug/L |   | 95   | 70 - 130 | 0   | 20    |
| gamma-Chlordane               | <0.049  |           | 1.99  | 1.91   |           | ug/L |   | 96   | 70 - 130 | 1   | 20    |
| Heptachlor                    | <0.0098 |           | 1.99  | 1.87   |           | ug/L |   | 94   | 70 - 130 | 1   | 20    |
| Heptachlor epoxide (isomer B) | <0.0098 |           | 1.99  | 1.63   |           | ug/L |   | 82   | 70 - 130 | 0   | 20    |
| Hexachlorobenzene             | <0.049  |           | 1.99  | 1.78   |           | ug/L |   | 90   | 70 - 130 | 0   | 20    |
| Hexachlorocyclopentadiene     | <0.049  |           | 1.99  | 2.02   |           | ug/L |   | 102  | 70 - 130 | 0   | 20    |
| Indeno[1,2,3-cd]pyrene        | <0.049  |           | 1.99  | 2.26   |           | ug/L |   | 114  | 70 - 130 | 1   | 20    |
| Isophorone                    | <0.098  |           | 1.99  | 2.00   |           | ug/L |   | 101  | 70 - 130 | 2   | 20    |
| Lindane                       | <0.0098 |           | 1.99  | 2.06   |           | ug/L |   | 104  | 70 - 130 | 1   | 20    |
| Malathion                     | <0.098  |           | 1.99  | 2.21   |           | ug/L |   | 111  | 70 - 130 | 1   | 20    |
| Methoxychlor                  | <0.049  |           | 1.99  | 2.14   |           | ug/L |   | 108  | 70 - 130 | 3   | 20    |
| Metolachlor                   | <0.049  |           | 1.99  | 1.99   |           | ug/L |   | 100  | 70 - 130 | 1   | 20    |
| Molinate                      | <0.098  |           | 1.99  | 2.10   |           | ug/L |   | 106  | 70 - 130 | 1   | 20    |
| Naphthalene                   | <0.098  |           | 1.99  | 1.82   |           | ug/L |   | 92   | 70 - 130 | 1   | 20    |
| Parathion                     | <0.098  |           | 1.99  | 2.41   |           | ug/L |   | 121  | 70 - 130 | 1   | 20    |
| Pendimethalin (Penoxaline)    | <0.098  |           | 1.99  | 2.16   |           | ug/L |   | 109  | 70 - 130 | 2   | 20    |
| Phenanthrene                  | <0.039  |           | 1.99  | 1.91   |           | ug/L |   | 96   | 70 - 130 | 0   | 20    |
| Propachlor                    | <0.049  |           | 1.99  | 2.26   |           | ug/L |   | 114  | 70 - 130 | 3   | 20    |
| Pyrene                        | <0.049  |           | 1.99  | 2.34   |           | ug/L |   | 118  | 70 - 130 | 3   | 20    |
| Simazine                      | <0.049  |           | 1.99  | 2.26   |           | ug/L |   | 114  | 70 - 130 | 1   | 20    |
| Terbacil                      | <0.098  |           | 1.99  | 1.98   |           | ug/L |   | 100  | 70 - 130 | 1   | 20    |
| Terbutylazine                 | <0.098  |           | 1.99  | 2.31   |           | ug/L |   | 116  | 70 - 130 | 3   | 20    |
| Thiobencarb                   | <0.098  |           | 1.99  | 2.24   |           | ug/L |   | 113  | 70 - 130 | 1   | 20    |
| trans-Nonachlor               | <0.049  |           | 1.99  | 1.94   |           | ug/L |   | 98   | 70 - 130 | 1   | 20    |
| Trifluralin                   | <0.098  |           | 1.99  | 2.02   |           | ug/L |   | 102  | 70 - 130 | 1   | 20    |

| Surrogate          | MSD       | MSD       | Limits   |
|--------------------|-----------|-----------|----------|
|                    | %Recovery | Qualifier |          |
| 2-Nitro-m-xylene   | 101       |           | 70 - 130 |
| Perylene-d12       | 97        |           | 70 - 130 |
| Triphenylphosphate | 103       |           | 70 - 130 |

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

Lab Sample ID: MB 570-684318/1-A

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 688721

Prep Batch: 684318

| 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     | 01/20/26 06:00 | 01/29/26 19:23 | 1       |

Eurofins Pomona

# QC Sample Results

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

Job ID: 380-192673-1  
SDG: Weekly: Ka'amilo Wells P1

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

**Lab Sample ID: MB 570-684318/1-A**  
**Matrix: Water**  
**Analysis Batch: 688721**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 684318**

| Surrogate                   | MB MB     |           | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
|                             | %Recovery | Qualifier |          |                |                |         |
| 2,4,6-Tribromophenol (Surr) | 67        |           | 33 - 139 | 01/20/26 06:00 | 01/29/26 19:23 | 1       |
| 2-Fluorobiphenyl (Surr)     | 87        |           | 33 - 126 | 01/20/26 06:00 | 01/29/26 19:23 | 1       |
| 2-Fluorophenol (Surr)       | 61        |           | 12 - 120 | 01/20/26 06:00 | 01/29/26 19:23 | 1       |
| Nitrobenzene-d5 (Surr)      | 101       |           | 36 - 120 | 01/20/26 06:00 | 01/29/26 19:23 | 1       |
| Phenol-d6 (Surr)            | 37        |           | 10 - 120 | 01/20/26 06:00 | 01/29/26 19:23 | 1       |
| p-Terphenyl-d14 (Surr)      | 88        |           | 47 - 131 | 01/20/26 06:00 | 01/29/26 19:23 | 1       |

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

**Lab Sample ID: MB 570-684318/1-A**  
**Matrix: Water**  
**Analysis Batch: 687438**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 684318**

| Analyte                | MB MB  |           | RL   | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------------------|--------|-----------|------|------|---|----------------|----------------|---------|
|                        | Result | Qualifier |      |      |   |                |                |         |
| 1-Methylnaphthalene    | <0.20  |           | 0.20 | ug/L |   | 01/20/26 06:00 | 01/27/26 07:13 | 1       |
| 2-Methylnaphthalene    | <0.20  |           | 0.20 | ug/L |   | 01/20/26 06:00 | 01/27/26 07:13 | 1       |
| Acenaphthene           | <0.20  |           | 0.20 | ug/L |   | 01/20/26 06:00 | 01/27/26 07:13 | 1       |
| Acenaphthylene         | <0.20  |           | 0.20 | ug/L |   | 01/20/26 06:00 | 01/27/26 07:13 | 1       |
| Anthracene             | <0.20  |           | 0.20 | ug/L |   | 01/20/26 06:00 | 01/27/26 07:13 | 1       |
| Benzo[a]anthracene     | <0.20  |           | 0.20 | ug/L |   | 01/20/26 06:00 | 01/27/26 07:13 | 1       |
| Benzo[a]pyrene         | <0.20  |           | 0.20 | ug/L |   | 01/20/26 06:00 | 01/27/26 07:13 | 1       |
| Benzo[b]fluoranthene   | <0.20  |           | 0.20 | ug/L |   | 01/20/26 06:00 | 01/27/26 07:13 | 1       |
| Benzo[g,h,i]perylene   | <0.20  |           | 0.20 | ug/L |   | 01/20/26 06:00 | 01/27/26 07:13 | 1       |
| Benzo[k]fluoranthene   | <0.20  |           | 0.20 | ug/L |   | 01/20/26 06:00 | 01/27/26 07:13 | 1       |
| Chrysene               | <0.20  |           | 0.20 | ug/L |   | 01/20/26 06:00 | 01/27/26 07:13 | 1       |
| Dibenz(a,h)anthracene  | <0.20  |           | 0.20 | ug/L |   | 01/20/26 06:00 | 01/27/26 07:13 | 1       |
| Fluoranthene           | <0.20  |           | 0.20 | ug/L |   | 01/20/26 06:00 | 01/27/26 07:13 | 1       |
| Fluorene               | <0.20  |           | 0.20 | ug/L |   | 01/20/26 06:00 | 01/27/26 07:13 | 1       |
| Indeno[1,2,3-cd]pyrene | <0.20  |           | 0.20 | ug/L |   | 01/20/26 06:00 | 01/27/26 07:13 | 1       |
| Naphthalene            | <0.20  |           | 0.20 | ug/L |   | 01/20/26 06:00 | 01/27/26 07:13 | 1       |
| Phenanthrene           | <0.20  |           | 0.20 | ug/L |   | 01/20/26 06:00 | 01/27/26 07:13 | 1       |
| Pyrene                 | <0.20  |           | 0.20 | ug/L |   | 01/20/26 06:00 | 01/27/26 07:13 | 1       |

| Surrogate                   | MB MB     |           | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
|                             | %Recovery | Qualifier |          |                |                |         |
| 2,4,6-Tribromophenol (Surr) | 102       |           | 28 - 127 | 01/20/26 06:00 | 01/27/26 07:13 | 1       |
| 2-Fluorobiphenyl (Surr)     | 87        |           | 31 - 120 | 01/20/26 06:00 | 01/27/26 07:13 | 1       |
| 2-Fluorophenol (Surr)       | 57        |           | 17 - 120 | 01/20/26 06:00 | 01/27/26 07:13 | 1       |
| Nitrobenzene-d5 (Surr)      | 89        |           | 27 - 120 | 01/20/26 06:00 | 01/27/26 07:13 | 1       |
| Phenol-d6 (Surr)            | 37        |           | 10 - 120 | 01/20/26 06:00 | 01/27/26 07:13 | 1       |
| p-Terphenyl-d14 (Surr)      | 84        |           | 45 - 120 | 01/20/26 06:00 | 01/27/26 07:13 | 1       |

**Lab Sample ID: LCS 570-684318/2-A**  
**Matrix: Water**  
**Analysis Batch: 687438**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 684318**

| Analyte             | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------------------|-------------|------------|---------------|------|---|------|-------------|
|                     |             |            |               |      |   |      |             |
| 2-Methylnaphthalene | 20.0        | 18.0       |               | ug/L |   | 90   | 43 - 120    |

# QC Sample Results

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

Job ID: 380-192673-1  
SDG: Weekly: Ka'amilo Wells P1

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

**Lab Sample ID: LCS 570-684318/2-A**

**Matrix: Water**

**Analysis Batch: 687438**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 684318**

| Analyte                | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec     |  |
|------------------------|-------------|------------|---------------|------|---|------|----------|--|
|                        |             |            |               |      |   |      | Limits   |  |
| Acenaphthene           | 20.0        | 18.4       |               | ug/L |   | 92   | 60 - 132 |  |
| Acenaphthylene         | 20.0        | 18.5       |               | ug/L |   | 92   | 54 - 126 |  |
| Anthracene             | 20.0        | 18.1       |               | ug/L |   | 90   | 43 - 120 |  |
| Benzo[a]anthracene     | 20.0        | 19.0       |               | ug/L |   | 95   | 42 - 133 |  |
| Benzo[a]pyrene         | 20.0        | 19.2       |               | ug/L |   | 96   | 32 - 148 |  |
| Benzo[b]fluoranthene   | 20.0        | 19.1       |               | ug/L |   | 96   | 42 - 140 |  |
| Benzo[g,h,i]perylene   | 20.0        | 17.2       |               | ug/L |   | 86   | 1 - 195  |  |
| Benzo[k]fluoranthene   | 20.0        | 18.2       |               | ug/L |   | 91   | 25 - 146 |  |
| Chrysene               | 20.0        | 18.4       |               | ug/L |   | 92   | 44 - 140 |  |
| Dibenz(a,h)anthracene  | 20.0        | 18.0       |               | ug/L |   | 90   | 1 - 200  |  |
| Fluoranthene           | 20.0        | 18.7       |               | ug/L |   | 93   | 43 - 121 |  |
| Fluorene               | 20.0        | 18.5       |               | ug/L |   | 92   | 70 - 120 |  |
| Indeno[1,2,3-cd]pyrene | 20.0        | 18.1       |               | ug/L |   | 91   | 1 - 151  |  |
| Naphthalene            | 20.0        | 17.8       |               | ug/L |   | 89   | 36 - 120 |  |
| Phenanthrene           | 20.0        | 18.2       |               | ug/L |   | 91   | 65 - 120 |  |
| Pyrene                 | 20.0        | 19.4       |               | ug/L |   | 97   | 70 - 120 |  |

| Surrogate                   | LCS LCS   |           | Limits   |
|-----------------------------|-----------|-----------|----------|
|                             | %Recovery | Qualifier |          |
| 2,4,6-Tribromophenol (Surr) | 91        |           | 28 - 127 |
| 2-Fluorobiphenyl (Surr)     | 85        |           | 31 - 120 |
| 2-Fluorophenol (Surr)       | 59        |           | 17 - 120 |
| Nitrobenzene-d5 (Surr)      | 87        |           | 27 - 120 |
| Phenol-d6 (Surr)            | 40        |           | 10 - 120 |
| p-Terphenyl-d14 (Surr)      | 92        |           | 45 - 120 |

**Lab Sample ID: LCSD 570-684318/3-A**

**Matrix: Water**

**Analysis Batch: 687438**

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

**Prep Type: Total/NA**

**Prep Batch: 684318**

| Analyte                | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec     |   | RPD |       |
|------------------------|-------------|-------------|----------------|------|---|------|----------|---|-----|-------|
|                        |             |             |                |      |   |      | Limits   |   | RPD | Limit |
| 1-Methylnaphthalene    | 20.0        | 19.0        |                | ug/L |   | 95   | 47 - 120 | 6 | 20  |       |
| 2-Methylnaphthalene    | 20.0        | 19.0        |                | ug/L |   | 95   | 43 - 120 | 5 | 20  |       |
| Acenaphthene           | 20.0        | 19.0        |                | ug/L |   | 95   | 60 - 132 | 3 | 29  |       |
| Acenaphthylene         | 20.0        | 19.2        |                | ug/L |   | 96   | 54 - 126 | 4 | 45  |       |
| Anthracene             | 20.0        | 19.2        |                | ug/L |   | 96   | 43 - 120 | 6 | 40  |       |
| Benzo[a]anthracene     | 20.0        | 20.0        |                | ug/L |   | 100  | 42 - 133 | 5 | 32  |       |
| Benzo[a]pyrene         | 20.0        | 20.5        |                | ug/L |   | 103  | 32 - 148 | 7 | 43  |       |
| Benzo[b]fluoranthene   | 20.0        | 19.8        |                | ug/L |   | 99   | 42 - 140 | 4 | 43  |       |
| Benzo[g,h,i]perylene   | 20.0        | 18.7        |                | ug/L |   | 93   | 1 - 195  | 9 | 61  |       |
| Benzo[k]fluoranthene   | 20.0        | 19.7        |                | ug/L |   | 98   | 25 - 146 | 8 | 38  |       |
| Chrysene               | 20.0        | 19.3        |                | ug/L |   | 97   | 44 - 140 | 5 | 53  |       |
| Dibenz(a,h)anthracene  | 20.0        | 19.6        |                | ug/L |   | 98   | 1 - 200  | 8 | 75  |       |
| Fluoranthene           | 20.0        | 19.3        |                | ug/L |   | 97   | 43 - 121 | 3 | 40  |       |
| Fluorene               | 20.0        | 19.2        |                | ug/L |   | 96   | 70 - 120 | 4 | 23  |       |
| Indeno[1,2,3-cd]pyrene | 20.0        | 19.6        |                | ug/L |   | 98   | 1 - 151  | 8 | 60  |       |
| Naphthalene            | 20.0        | 18.6        |                | ug/L |   | 93   | 36 - 120 | 4 | 39  |       |
| Phenanthrene           | 20.0        | 18.8        |                | ug/L |   | 94   | 65 - 120 | 4 | 24  |       |
| Pyrene                 | 20.0        | 20.3        |                | ug/L |   | 101  | 70 - 120 | 4 | 30  |       |

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# QC Sample Results

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

Job ID: 380-192673-1  
SDG: Weekly: Ka'amilo Wells P1

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

**Lab Sample ID: LCSD 570-684318/3-A**  
**Matrix: Water**  
**Analysis Batch: 687438**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 684318**

| Surrogate                   | LCSD      |           | Limits   |
|-----------------------------|-----------|-----------|----------|
|                             | %Recovery | Qualifier |          |
| 2,4,6-Tribromophenol (Surr) | 93        |           | 28 - 127 |
| 2-Fluorobiphenyl (Surr)     | 89        |           | 31 - 120 |
| 2-Fluorophenol (Surr)       | 63        |           | 17 - 120 |
| Nitrobenzene-d5 (Surr)      | 90        |           | 27 - 120 |
| Phenol d6 (Surr)            | 43        |           | 10 - 120 |
| p-Terphenyl-d14 (Surr)      | 92        |           | 45 - 120 |

**Lab Sample ID: 380-192972-A-1-A MS**  
**Matrix: Water**  
**Analysis Batch: 687438**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**  
**Prep Batch: 684318**

| Analyte                | Sample | Sample    | Spike | MS     | MS        | Unit | D | %Rec | %Rec     |
|------------------------|--------|-----------|-------|--------|-----------|------|---|------|----------|
|                        | Result | Qualifier | Added | Result | Qualifier |      |   |      |          |
| 1-Methylnaphthalene    | <0.19  |           | 19.2  | 14.8   |           | ug/L |   | 77   | 36 - 120 |
| 2-Methylnaphthalene    | <0.19  |           | 19.2  | 14.4   |           | ug/L |   | 75   | 32 - 124 |
| Acenaphthene           | <0.19  |           | 19.2  | 15.0   |           | ug/L |   | 78   | 47 - 145 |
| Acenaphthylene         | <0.19  |           | 19.2  | 15.2   |           | ug/L |   | 79   | 33 - 145 |
| Anthracene             | <0.19  |           | 19.2  | 15.3   |           | ug/L |   | 79   | 27 - 133 |
| Benzo[a]anthracene     | <0.19  |           | 19.2  | 15.6   |           | ug/L |   | 81   | 33 - 143 |
| Benzo[a]pyrene         | <0.19  |           | 19.2  | 14.5   |           | ug/L |   | 76   | 17 - 163 |
| Benzo[b]fluoranthene   | <0.19  |           | 19.2  | 14.6   |           | ug/L |   | 76   | 24 - 159 |
| Benzo[g,h,i]perylene   | <0.19  |           | 19.2  | 12.7   |           | ug/L |   | 66   | 1 - 219  |
| Benzo[k]fluoranthene   | <0.19  |           | 19.2  | 13.9   |           | ug/L |   | 73   | 11 - 162 |
| Chrysene               | <0.19  |           | 19.2  | 14.9   |           | ug/L |   | 77   | 17 - 168 |
| Dibenz(a,h)anthracene  | <0.19  |           | 19.2  | 13.0   |           | ug/L |   | 67   | 1 - 227  |
| Fluoranthene           | <0.19  |           | 19.2  | 15.8   |           | ug/L |   | 82   | 26 - 137 |
| Fluorene               | <0.19  |           | 19.2  | 15.2   |           | ug/L |   | 79   | 59 - 121 |
| Indeno[1,2,3-cd]pyrene | <0.19  |           | 19.2  | 13.4   |           | ug/L |   | 69   | 1 - 171  |
| Naphthalene            | <0.19  |           | 19.2  | 14.6   |           | ug/L |   | 76   | 21 - 133 |
| Phenanthrene           | <0.19  |           | 19.2  | 15.4   |           | ug/L |   | 80   | 54 - 120 |
| Pyrene                 | <0.19  |           | 19.2  | 16.9   |           | ug/L |   | 88   | 52 - 120 |

| Surrogate                   | MS        |           | Limits   |
|-----------------------------|-----------|-----------|----------|
|                             | %Recovery | Qualifier |          |
| 2,4,6-Tribromophenol (Surr) | 80        |           | 28 - 127 |
| 2-Fluorobiphenyl (Surr)     | 75        |           | 31 - 120 |
| 2-Fluorophenol (Surr)       | 51        |           | 17 - 120 |
| Nitrobenzene-d5 (Surr)      | 74        |           | 27 - 120 |
| Phenol-d6 (Surr)            | 34        |           | 10 - 120 |
| p-Terphenyl-d14 (Surr)      | 76        |           | 45 - 120 |

**Lab Sample ID: 380-192972-A-1-B MSD**  
**Matrix: Water**  
**Analysis Batch: 687438**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 684318**

| Analyte             | Sample | Sample    | Spike | MSD    | MSD       | Unit | D | %Rec | %Rec     | RPD | Limit |
|---------------------|--------|-----------|-------|--------|-----------|------|---|------|----------|-----|-------|
|                     | Result | Qualifier | Added | Result | Qualifier |      |   |      |          |     |       |
| 1-Methylnaphthalene | <0.19  |           | 19.2  | 16.1   |           | ug/L |   | 84   | 36 - 120 | 9   | 30    |
| 2-Methylnaphthalene | <0.19  |           | 19.2  | 16.0   |           | ug/L |   | 83   | 32 - 124 | 10  | 30    |
| Acenaphthene        | <0.19  |           | 19.2  | 15.9   |           | ug/L |   | 83   | 47 - 145 | 6   | 48    |
| Acenaphthylene      | <0.19  |           | 19.2  | 16.0   |           | ug/L |   | 83   | 33 - 145 | 5   | 74    |

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# QC Sample Results

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

Job ID: 380-192673-1  
SDG: Weekly: Ka'amilo Wells P1

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

Lab Sample ID: 380-192972-A-1-B MSD

Client Sample ID: Matrix Spike Duplicate

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 687438

Prep Batch: 684318

| Analyte                | Sample | Sample    | Spike | MSD    | MSD       | Unit | D | %Rec | %Rec     | RPD | RPD   |
|------------------------|--------|-----------|-------|--------|-----------|------|---|------|----------|-----|-------|
|                        | Result | Qualifier | Added | Result | Qualifier |      |   |      | Limits   |     | Limit |
| Anthracene             | <0.19  |           | 19.2  | 16.4   |           | ug/L |   | 85   | 27 - 133 | 7   | 66    |
| Benzo[a]anthracene     | <0.19  |           | 19.2  | 16.8   |           | ug/L |   | 87   | 33 - 143 | 7   | 53    |
| Benzo[a]pyrene         | <0.19  |           | 19.2  | 15.6   |           | ug/L |   | 81   | 17 - 163 | 7   | 72    |
| Benzo[b]fluoranthene   | <0.19  |           | 19.2  | 15.5   |           | ug/L |   | 81   | 24 - 159 | 6   | 71    |
| Benzo[g,h,i]perylene   | <0.19  |           | 19.2  | 14.2   |           | ug/L |   | 74   | 1 - 219  | 11  | 97    |
| Benzo[k]fluoranthene   | <0.19  |           | 19.2  | 15.0   |           | ug/L |   | 78   | 11 - 162 | 7   | 63    |
| Chrysene               | <0.19  |           | 19.2  | 16.1   |           | ug/L |   | 84   | 17 - 168 | 8   | 87    |
| Dibenz(a,h)anthracene  | <0.19  |           | 19.2  | 14.7   |           | ug/L |   | 76   | 1 - 227  | 12  | 126   |
| Fluoranthene           | <0.19  |           | 19.2  | 17.1   |           | ug/L |   | 89   | 26 - 137 | 8   | 66    |
| Fluorene               | <0.19  |           | 19.2  | 16.1   |           | ug/L |   | 84   | 59 - 121 | 6   | 38    |
| Indeno[1,2,3-cd]pyrene | <0.19  |           | 19.2  | 14.8   |           | ug/L |   | 77   | 1 - 171  | 10  | 99    |
| Naphthalene            | <0.19  |           | 19.2  | 15.9   |           | ug/L |   | 82   | 21 - 133 | 8   | 65    |
| Phenanthrene           | <0.19  |           | 19.2  | 16.3   |           | ug/L |   | 85   | 54 - 120 | 6   | 39    |
| Pyrene                 | <0.19  |           | 19.2  | 18.0   |           | ug/L |   | 94   | 52 - 120 | 7   | 49    |

  

| Surrogate                   | MSD       | MSD       | Limits   |
|-----------------------------|-----------|-----------|----------|
|                             | %Recovery | Qualifier |          |
| 2,4,6-Tribromophenol (Surr) | 86        |           | 28 - 127 |
| 2-Fluorobiphenyl (Surr)     | 80        |           | 31 - 120 |
| 2-Fluorophenol (Surr)       | 54        |           | 17 - 120 |
| Nitrobenzene-d5 (Surr)      | 80        |           | 27 - 120 |
| Phenol-d6 (Surr)            | 36        |           | 10 - 120 |
| p-Terphenyl-d14 (Surr)      | 82        |           | 45 - 120 |

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

Lab Sample ID: MB 570-683659/5

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 683659

| Analyte      | MB     | MB        | RL | Unit | D | Prepared | Analyzed       | Dil Fac |
|--------------|--------|-----------|----|------|---|----------|----------------|---------|
|              | Result | Qualifier |    |      |   |          |                |         |
| GRO (C6-C10) | <10    |           | 10 | ug/L |   |          | 01/17/26 12:11 | 1       |

  

| Surrogate                   | MB        | MB        | Limits   | Prepared | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------|----------------|---------|
|                             | %Recovery | Qualifier |          |          |                |         |
| 4-Bromofluorobenzene (Surr) | 93        |           | 38 - 134 |          | 01/17/26 12:11 | 1       |

Lab Sample ID: LCS 570-683659/3

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 683659

| Analyte                          | Spike Added | LCS    | LCS       | Unit | D | %Rec | %Rec     |
|----------------------------------|-------------|--------|-----------|------|---|------|----------|
|                                  |             | Result | Qualifier |      |   |      | Limits   |
| Gasoline Range Organics (C4-C13) | 400         | 392    |           | ug/L |   | 98   | 78 - 120 |

  

| Surrogate                   | LCS       | LCS       | Limits   |
|-----------------------------|-----------|-----------|----------|
|                             | %Recovery | Qualifier |          |
| 4-Bromofluorobenzene (Surr) | 87        |           | 38 - 134 |

# QC Sample Results

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

Job ID: 380-192673-1  
SDG: Weekly: Ka'amilo Wells P1

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

**Lab Sample ID: LCSD 570-683659/4**  
**Matrix: Water**  
**Analysis Batch: 683659**

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

| Analyte                          | Spike Added | LCSD Result           | LCSD Qualifier        | Unit | D | %Rec | %Rec Limits   | RPD | Limit |
|----------------------------------|-------------|-----------------------|-----------------------|------|---|------|---------------|-----|-------|
| Gasoline Range Organics (C4-C13) | 400         | 392                   |                       | ug/L |   | 98   | 78 - 120      | 0   | 10    |
| <b>Surrogate</b>                 |             | <b>LCSD %Recovery</b> | <b>LCSD Qualifier</b> |      |   |      | <b>Limits</b> |     |       |
| 4-Bromofluorobenzene (Surr)      |             | 98                    |                       |      |   |      | 38 - 134      |     |       |

**Lab Sample ID: MRL 570-683659/6**  
**Matrix: Water**  
**Analysis Batch: 683659**

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

| Analyte                          | Spike Added | MRL Result           | MRL Qualifier        | Unit | D | %Rec | %Rec Limits   | RPD | Limit |
|----------------------------------|-------------|----------------------|----------------------|------|---|------|---------------|-----|-------|
| Gasoline Range Organics (C4-C13) | 10.0        | 7.96                 | J                    | ug/L |   | 80   | 50 - 150      |     |       |
| <b>Surrogate</b>                 |             | <b>MRL %Recovery</b> | <b>MRL Qualifier</b> |      |   |      | <b>Limits</b> |     |       |
| 4-Bromofluorobenzene (Surr)      |             | 87                   |                      |      |   |      | 38 - 134      |     |       |

**Lab Sample ID: 380-192922-C-1 MS**  
**Matrix: Water**  
**Analysis Batch: 683659**

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

| Analyte                          | Sample Result | Sample Qualifier    | Spike Added | MS Result           | MS Qualifier | Unit | D | %Rec | %Rec Limits   | RPD | Limit |
|----------------------------------|---------------|---------------------|-------------|---------------------|--------------|------|---|------|---------------|-----|-------|
| Gasoline Range Organics (C4-C13) | <10           |                     | 400         | 367                 |              | ug/L |   | 92   | 68 - 122      |     |       |
| <b>Surrogate</b>                 |               | <b>MS %Recovery</b> |             | <b>MS Qualifier</b> |              |      |   |      | <b>Limits</b> |     |       |
| 4-Bromofluorobenzene (Surr)      |               | 92                  |             |                     |              |      |   |      | 38 - 134      |     |       |

**Lab Sample ID: 380-192922-C-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 683659**

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

| Analyte                          | Sample Result | Sample Qualifier     | Spike Added | MSD Result           | MSD Qualifier | Unit | D | %Rec | %Rec Limits   | RPD | Limit |
|----------------------------------|---------------|----------------------|-------------|----------------------|---------------|------|---|------|---------------|-----|-------|
| Gasoline Range Organics (C4-C13) | <10           |                      | 400         | 393                  |               | ug/L |   | 98   | 68 - 122      | 7   | 18    |
| <b>Surrogate</b>                 |               | <b>MSD %Recovery</b> |             | <b>MSD Qualifier</b> |               |      |   |      | <b>Limits</b> |     |       |
| 4-Bromofluorobenzene (Surr)      |               | 96                   |             |                      |               |      |   |      | 38 - 134      |     |       |

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

**Lab Sample ID: MB 570-684016/1-A**  
**Matrix: Water**  
**Analysis Batch: 686665**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 684016**

| Analyte                            | MB Result | MB Qualifier | RL | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------------|-----------|--------------|----|------|---|----------------|----------------|---------|
| Diesel Range Organics (C10-C24)    | <25       |              | 25 | ug/L |   | 01/19/26 10:29 | 01/24/26 20:24 | 1       |
| Motor Oil Range Organics [C24-C36] | <25       |              | 25 | ug/L |   | 01/19/26 10:29 | 01/24/26 20:24 | 1       |
| C8-C18                             | <25       |              | 25 | ug/L |   | 01/19/26 10:29 | 01/24/26 20:24 | 1       |

Eurofins Pomona

# QC Sample Results

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

Job ID: 380-192673-1  
SDG: Weekly: Ka'amilo Wells P1

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

| Surrogate           | MB MB<br>%Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|---------------------|--------------------|-----------|----------|----------------|----------------|---------|
| n-Octacosane (Surr) | 123                |           | 60 - 130 | 01/19/26 10:29 | 01/24/26 20:24 | 1       |

**Lab Sample ID: LCS 570-684016/2-A**  
**Matrix: Water**  
**Analysis Batch: 686665**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 684016**

| Analyte | Spike<br>Added | LCS<br>Result | LCS<br>Qualifier | Unit | D | %Rec | %Rec<br>Limits |
|---------|----------------|---------------|------------------|------|---|------|----------------|
| C10-C28 | 1600           | 1560          |                  | ug/L |   | 97   | 56 - 127       |

| Surrogate           | LCS LCS<br>%Recovery | Qualifier | Limits   |
|---------------------|----------------------|-----------|----------|
| n-Octacosane (Surr) | 124                  |           | 60 - 130 |

**Lab Sample ID: LCSD 570-684016/3-A**  
**Matrix: Water**  
**Analysis Batch: 686665**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 684016**

| Analyte | Spike<br>Added | LCSD<br>Result | LCSD<br>Qualifier | Unit | D | %Rec | %Rec<br>Limits | RPD<br>Limit |
|---------|----------------|----------------|-------------------|------|---|------|----------------|--------------|
| C10-C28 | 1600           | 1670           |                   | ug/L |   | 104  | 56 - 127       | 7<br>23      |

| Surrogate           | LCSD LCSD<br>%Recovery | Qualifier | Limits   |
|---------------------|------------------------|-----------|----------|
| n-Octacosane (Surr) | 130                    |           | 60 - 130 |

**Lab Sample ID: MRL 570-684016/4-A**  
**Matrix: Water**  
**Analysis Batch: 686665**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 684016**

| Analyte | Spike<br>Added | MRL<br>Result | MRL<br>Qualifier | Unit | D | %Rec | %Rec<br>Limits |
|---------|----------------|---------------|------------------|------|---|------|----------------|
| C10-C28 | 0.0200         | 0.0202        | J                | mg/L |   | 101  | 50 - 150       |

| Surrogate           | MRL MRL<br>%Recovery | Qualifier | Limits   |
|---------------------|----------------------|-----------|----------|
| n-Octacosane (Surr) | 122                  |           | 60 - 130 |

**Lab Sample ID: 380-192922-A-1-A MS**  
**Matrix: Water**  
**Analysis Batch: 686665**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**  
**Prep Batch: 684016**

| Analyte | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MS<br>Result | MS<br>Qualifier | Unit | D | %Rec | %Rec<br>Limits |
|---------|------------------|---------------------|----------------|--------------|-----------------|------|---|------|----------------|
| C10-C28 | <26              |                     | 1650           | 1600         |                 | ug/L |   | 97   | 70 - 130       |

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

**Lab Sample ID: 380-192922-A-1-B MSD**  
**Matrix: Water**  
**Analysis Batch: 686665**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 684016**

| Analyte | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MSD<br>Result | MSD<br>Qualifier | Unit | D | %Rec | %Rec<br>Limits | RPD<br>Limit |
|---------|------------------|---------------------|----------------|---------------|------------------|------|---|------|----------------|--------------|
| C10-C28 | <26              |                     | 1640           | 1720          |                  | ug/L |   | 105  | 70 - 130       | 7<br>20      |

# QC Sample Results

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

Job ID: 380-192673-1  
SDG: Weekly: Ka'amilo Wells P1

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

Lab Sample ID: 380-192922-A-1-B MSD

Matrix: Water

Analysis Batch: 686665

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 684016

| <i>Surrogate</i>           | <i>%Recovery</i> | <i>MSD</i> <i>MSD</i><br><i>Qualifier</i> | <i>Limits</i> |
|----------------------------|------------------|---|---------------|
| <i>n-Octacosane (Surr)</i> | 133              | S1+                                       | 60 - 130      |

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# QC Association Summary

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

Job ID: 380-192673-1  
 SDG: Weekly: Ka'amilo Wells P1

## GC/MS Semi VOA

### Prep Batch: 199062

| Lab Sample ID        | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|----------------------|------------------------|-----------|--------|--------|------------|
| 380-192673-1         | Ka'amilo Wells P1      | Total/NA  | Water  | 525.2  |            |
| MB 380-199062/21-A   | Method Blank           | Total/NA  | Water  | 525.2  |            |
| LCS 380-199062/23-A  | Lab Control Sample     | Total/NA  | Water  | 525.2  |            |
| MRL 380-199062/22-A  | Lab Control Sample     | Total/NA  | Water  | 525.2  |            |
| 380-192710-U-1-A MS  | Matrix Spike           | Total/NA  | Water  | 525.2  |            |
| 380-192710-V-1-A MSD | Matrix Spike Duplicate | Total/NA  | Water  | 525.2  |            |

### Analysis Batch: 199342

| Lab Sample ID        | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|----------------------|------------------------|-----------|--------|--------|------------|
| 380-192673-1         | Ka'amilo Wells P1      | Total/NA  | Water  | 525.2  | 199062     |
| MB 380-199062/21-A   | Method Blank           | Total/NA  | Water  | 525.2  | 199062     |
| LCS 380-199062/23-A  | Lab Control Sample     | Total/NA  | Water  | 525.2  | 199062     |
| MRL 380-199062/22-A  | Lab Control Sample     | Total/NA  | Water  | 525.2  | 199062     |
| 380-192710-U-1-A MS  | Matrix Spike           | Total/NA  | Water  | 525.2  | 199062     |
| 380-192710-V-1-A MSD | Matrix Spike Duplicate | Total/NA  | Water  | 525.2  | 199062     |

### Prep Batch: 684318

| Lab Sample ID        | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|----------------------|------------------------|-----------|--------|--------|------------|
| 380-192673-1         | Ka'amilo Wells P1      | Total/NA  | Water  | 625.1  |            |
| MB 570-684318/1-A    | Method Blank           | Total/NA  | Water  | 625.1  |            |
| LCS 570-684318/2-A   | Lab Control Sample     | Total/NA  | Water  | 625.1  |            |
| LCSD 570-684318/3-A  | Lab Control Sample Dup | Total/NA  | Water  | 625.1  |            |
| 380-192972-A-1-A MS  | Matrix Spike           | Total/NA  | Water  | 625.1  |            |
| 380-192972-A-1-B MSD | Matrix Spike Duplicate | Total/NA  | Water  | 625.1  |            |

### Analysis Batch: 687438

| Lab Sample ID        | Client Sample ID       | Prep Type | Matrix | Method    | Prep Batch |
|----------------------|------------------------|-----------|--------|-----------|------------|
| MB 570-684318/1-A    | Method Blank           | Total/NA  | Water  | 625.1 SIM | 684318     |
| LCS 570-684318/2-A   | Lab Control Sample     | Total/NA  | Water  | 625.1 SIM | 684318     |
| LCSD 570-684318/3-A  | Lab Control Sample Dup | Total/NA  | Water  | 625.1 SIM | 684318     |
| 380-192972-A-1-A MS  | Matrix Spike           | Total/NA  | Water  | 625.1 SIM | 684318     |
| 380-192972-A-1-B MSD | Matrix Spike Duplicate | Total/NA  | Water  | 625.1 SIM | 684318     |

### Analysis Batch: 688099

| Lab Sample ID | Client Sample ID  | Prep Type | Matrix | Method    | Prep Batch |
|---------------|-------------------|-----------|--------|-----------|------------|
| 380-192673-1  | Ka'amilo Wells P1 | Total/NA  | Water  | 625.1 SIM | 684318     |

### Analysis Batch: 688721

| Lab Sample ID     | Client Sample ID  | Prep Type | Matrix | Method | Prep Batch |
|-------------------|-------------------|-----------|--------|--------|------------|
| 380-192673-1      | Ka'amilo Wells P1 | Total/NA  | Water  | 625.1  | 684318     |
| MB 570-684318/1-A | Method Blank      | Total/NA  | Water  | 625.1  | 684318     |

## GC VOA

### Analysis Batch: 683659

| Lab Sample ID     | Client Sample ID       | Prep Type | Matrix | Method       | Prep Batch |
|-------------------|------------------------|-----------|--------|--------------|------------|
| 380-192673-1      | Ka'amilo Wells P1      | Total/NA  | Water  | 8015B GRO LL |            |
| 380-192673-2      | TB: Ka'amilo Wells P1  | Total/NA  | Water  | 8015B GRO LL |            |
| MB 570-683659/5   | Method Blank           | Total/NA  | Water  | 8015B GRO LL |            |
| LCS 570-683659/3  | Lab Control Sample     | Total/NA  | Water  | 8015B GRO LL |            |
| LCSD 570-683659/4 | Lab Control Sample Dup | Total/NA  | Water  | 8015B GRO LL |            |

# QC Association Summary

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

Job ID: 380-192673-1  
 SDG: Weekly: Ka'amilo Wells P1

## GC VOA (Continued)

### Analysis Batch: 683659 (Continued)

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method       | Prep Batch |
|--------------------|------------------------|-----------|--------|--------------|------------|
| MRL 570-683659/6   | Lab Control Sample     | Total/NA  | Water  | 8015B GRO LL |            |
| 380-192922-C-1 MS  | Matrix Spike           | Total/NA  | Water  | 8015B GRO LL |            |
| 380-192922-C-1 MSD | Matrix Spike Duplicate | Total/NA  | Water  | 8015B GRO LL |            |

## GC Semi VOA

### Prep Batch: 684016

| Lab Sample ID        | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|----------------------|------------------------|-----------|--------|--------|------------|
| 380-192673-1         | Ka'amilo Wells P1      | Total/NA  | Water  | 3510C  |            |
| MB 570-684016/1-A    | Method Blank           | Total/NA  | Water  | 3510C  |            |
| LCS 570-684016/2-A   | Lab Control Sample     | Total/NA  | Water  | 3510C  |            |
| LCSD 570-684016/3-A  | Lab Control Sample Dup | Total/NA  | Water  | 3510C  |            |
| MRL 570-684016/4-A   | Lab Control Sample     | Total/NA  | Water  | 3510C  |            |
| 380-192922-A-1-A MS  | Matrix Spike           | Total/NA  | Water  | 3510C  |            |
| 380-192922-A-1-B MSD | Matrix Spike Duplicate | Total/NA  | Water  | 3510C  |            |

### Analysis Batch: 686665

| Lab Sample ID        | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|----------------------|------------------------|-----------|--------|--------|------------|
| 380-192673-1         | Ka'amilo Wells P1      | Total/NA  | Water  | 8015B  | 684016     |
| MB 570-684016/1-A    | Method Blank           | Total/NA  | Water  | 8015B  | 684016     |
| LCS 570-684016/2-A   | Lab Control Sample     | Total/NA  | Water  | 8015B  | 684016     |
| LCSD 570-684016/3-A  | Lab Control Sample Dup | Total/NA  | Water  | 8015B  | 684016     |
| MRL 570-684016/4-A   | Lab Control Sample     | Total/NA  | Water  | 8015B  | 684016     |
| 380-192922-A-1-A MS  | Matrix Spike           | Total/NA  | Water  | 8015B  | 684016     |
| 380-192922-A-1-B MSD | Matrix Spike Duplicate | Total/NA  | Water  | 8015B  | 684016     |

# Lab Chronicle

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

Job ID: 380-192673-1  
SDG: Weekly: Ka'amilo Wells P1

**Client Sample ID: Ka'amilo Wells P1**

**Lab Sample ID: 380-192673-1**

Date Collected: 01/13/26 10:35

Matrix: Water

Date Received: 01/15/26 09:38

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab       | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|-----------|----------------------|
| Total/NA  | Prep       | 525.2        |     |                 | 199062       | IQ42    | EA POM    | 01/19/26 14:33       |
| Total/NA  | Analysis   | 525.2        |     | 1               | 199342       | Q8LA    | EA POM    | 01/20/26 16:19       |
| Total/NA  | Prep       | 625.1        |     |                 | 684318       | H1SH    | EET CAL 4 | 01/20/26 06:00       |
| Total/NA  | Analysis   | 625.1        |     | 1               | 688721       | J7WE    | EET CAL 4 | 01/29/26 19:47       |
| Total/NA  | Prep       | 625.1        |     |                 | 684318       | H1SH    | EET CAL 4 | 01/20/26 06:00       |
| Total/NA  | Analysis   | 625.1 SIM    |     | 1               | 688099       | CG      | EET CAL 4 | 01/28/26 14:07       |
| Total/NA  | Analysis   | 8015B GRO LL |     | 1               | 683659       | YD9V    | EET CAL 4 | 01/17/26 14:30       |
| Total/NA  | Prep       | 3510C        |     |                 | 684016       | TVD6    | EET CAL 4 | 01/19/26 10:30       |
| Total/NA  | Analysis   | 8015B        |     | 1               | 686665       | H6FE    | EET CAL 4 | 01/24/26 23:16       |

**Client Sample ID: TB: Ka'amilo Wells P1**

**Lab Sample ID: 380-192673-2**

Date Collected: 01/13/26 10:35

Matrix: Water

Date Received: 01/15/26 09:38

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab       | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|-----------|----------------------|
| Total/NA  | Analysis   | 8015B GRO LL |     | 1               | 683659       | YD9V    | EET CAL 4 | 01/17/26 17:36       |

**Laboratory References:**

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

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

# Accreditation/Certification Summary

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

Job ID: 380-192673-1  
 SDG: Weekly: Ka'amilo Wells P1

## Laboratory: Eurofins Pomona

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

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

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

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

## Laboratory: Eurofins Calscience

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

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

# Accreditation/Certification Summary

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

Job ID: 380-192673-1  
SDG: Weekly: Ka'amilo Wells P1

## Laboratory: Eurofins Calscience (Continued)

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

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

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# Method Summary

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

Job ID: 380-192673-1  
SDG: Weekly: Ka'amilo Wells P1

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

#### Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.  
EPA = US Environmental Protection Agency  
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

#### Laboratory References:

EA POM = Eurofins Pomona, 941 Corporate Center Drive, Pomona, CA 91768-2642, TEL (626)386-1100  
EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

# Sample Summary

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

Job ID: 380-192673-1  
SDG: Weekly: Ka'amilo Wells P1

| Lab Sample ID | Client Sample ID      | Matrix | Collected      | Received       | Sample Origin |
|---------------|-----------------------|--------|----------------|----------------|---------------|
| 380-192673-1  | Ka'amilo Wells P1     | Water  | 01/13/26 10:35 | 01/15/26 09:38 | Hawaii        |
| 380-192673-2  | TB: Ka'amilo Wells P1 | Water  | 01/13/26 10:35 | 01/15/26 09:38 | Hawaii        |

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

**Eurofins Eaton Analytical Pomona**

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

**Chain of Custody Record**

|  |  |  |  |   |  |   |  |  |  |  |  |        |  |
|--|--|--|--|---|--|---|--|--|--|--|--|--------|--|
| <b>Client Information</b>  |  | Sampler:<br>Jason Rakofsky   |  | Lab PM:<br>Arada, Rachele   |  | Carrier Tracking No(s):                 |  | COC No:<br>380-28005-2757.1  |  |  |  |        |  |
| Client Contact:<br>Mr. Kirk Iwamoto  |  | Phone:<br>+1 808 748 5840  |  | E-Mail:<br>Rachele.Arada@et.eurofins.com  |  | State of Origin:                        |  | Page:<br>Page 1 of 2   |  |  |  |        |  |
| Company:<br>City & County of Honolulu  |  | PWSID:   |  | <b>Analysis Requested</b>   |  |   |  |  |  | Job #:   |  |        |  |
| Address:<br>630 South Beretania Street Chemistry Lab                           |  | Due Date Requested:  |  | Field Filtered Sample (Yes or No) <input type="checkbox"/><br>Perform MSD (Yes or No) <input type="checkbox"/><br>625.1, 625.1_SIM <input type="checkbox"/><br>8016B_GRO_LL - (MOD) GRO <input type="checkbox"/><br>8016B_DRO_LL_CS - HNL Ranges: C10-C24/C24-C36/C8-C18 <input type="checkbox"/><br>625.2_PREC - (MOD) 625plus Plus TICs <input type="checkbox"/><br>637.1_DW_PREC - 637.1 Full List <input type="checkbox"/><br>633 - All Analytes <input type="checkbox"/> |  |   |  |  |  | Preservation Codes:<br>R - NaThioSO4<br>RA - NaThioHCl<br>Q - Na2SO3<br>QA - Na2SO3/HCl<br>Y - Trizma<br>I - NH4 Acetate |  | Other: |  |
| City:<br>Honolulu  |  | TAT Requested (days):  |  |   |  |   |  |  |  | Total Number of containers   |  |        |  |
| State, Zip:<br>HI, 96843   |  | Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No   |  |   |  |   |  |  |  |  |  |        |  |
| Phone:<br>808-748-5840 (Tel)   |  | PO #:<br>C20525101 exp 05312023  |  |   |  |   |  |  |  |  |  |        |  |
| Email:<br>kiwamoto@hbws.org  |  | WO #:  |  |   |  |   |  |  |  |  |  |        |  |
| Project Name:<br>RED-HILL/HBWS Sites Event Desc: RUSH Weekly Red Hill          |  | Project #:<br>38001111   |  |   |  |   |  |  |  |  |  |        |  |
| Site:<br>Hawaii  |  | SSOW#:   |  |   |  |   |  |  |  |  |  |        |  |
| <b>Sample Identification</b>   |  | <b>Sample Date</b>   |  | <b>Sample Time</b>  |  | <b>Sample Type (C=Comp, G=grab)</b>     |  | <b>Matrix (Water, Sediment, Organic, Inorganic, Soil, Tissue, Air)</b> |  | <b>Special Instructions/Note:</b>  |  |        |  |
| Kaamilo Wells P1   |  | 13-Jan-2026  |  | 1035  |  | G Water                                 |  | Water  |  |  |  |        |  |
| TB: Kaamilo Wells P1   |  | 13-Jan-2026  |  | k   |  | G Water                                 |  | Water  |  |  |  |        |  |
| <b>Possible Hazard Identification</b>  |  | <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 |  | <b>Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)</b>   |  |   |  |  |  |  |  |        |  |
| Deliverable Requested: I, II, III, IV, Other (specify)                         |  |  |  | <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months  |  |   |  |  |  |  |  |        |  |
| Empty Kit Relinquished by:   |  | Date:  |  | Time:   |  | Method of Shipment: FedEx: 807907814685 |  |  |  |  |  |        |  |
| Relinquished by:   |  | Date/Time: 1/14/26 1105  |  | Company: HBWS   |  | Received by: [Signature]                |  | Date/Time: 1/15/26 930   |  | Company: BEAP  |  |        |  |
| Relinquished by:   |  | Date/Time:   |  | Company:  |  | Received by:                            |  | Date/Time:   |  | Company:   |  |        |  |
| Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No |  | Custody Seal No.:  |  | Cooler Temperature(s) °C and Other Remarks: (631A) 4.2 + 0.0 - 4.2 gel-frozen   |  |   |  |  |  |  |  |        |  |



## Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-192673-1  
SDG Number: Weekly: Ka'amilo Wells P1

**Login Number: 192673**

**List Number: 1**

**Creator: Ngo, Theodore**

**List Source: Eurofins Pomona**

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



## Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-192673-1  
SDG Number: Weekly: Ka'amilo Wells P1

**Login Number: 192673**

**List Number: 2**

**Creator: Szymborski, Jessica**

**List Source: Eurofins Calscience**

**List Creation: 01/16/26 06:16 PM**

| Question   | Answer | Comment                            |
|--|--------|------------------------------------|
| Radioactivity wasn't checked or is <=/ background as measured by a survey meter. | N/A    |                                    |
| The cooler's custody seal, if present, is intact.                                | True   |                                    |
| Sample custody seals, if present, are intact.                                    | True   |                                    |
| The cooler or samples do not appear to have been compromised or tampered with.   | True   |                                    |
| Samples were received on ice.  | True   |                                    |
| Cooler Temperature is acceptable.  | True   |                                    |
| Cooler Temperature is recorded.  | True   | 0.9/1.0                            |
| 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    |                                    |