

# ANALYTICAL REPORT

## PREPARED FOR

Attn: Mr. Erwin Kawata  
City & County of Honolulu  
630 South Beretania Street  
Public Service Bldg. Room 310  
Honolulu, Hawaii 96843

Generated 3/12/2025 3:30:58 PM

## JOB DESCRIPTION

RED-HILL  
Weekly  
RUSH Weekly Red Hill

## JOB NUMBER

380-137752-1

# Eurofins Eaton Analytical Pomona

## Job Notes

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

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

## Compliance Statement

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

## Authorization



Generated  
3/12/2025 3:30:58 PM

Authorized for release by  
Rachelle Arada, Project Manager  
[Rachelle.Arada@et.eurofinsus.com](mailto:Rachelle.Arada@et.eurofinsus.com)  
(626)386-1106

# Table of Contents

|                                  |    |
|----------------------------------|----|
| Cover Page . . . . .             | 1  |
| Table of Contents . . . . .      | 3  |
| Definitions/Glossary . . . . .   | 4  |
| Case Narrative . . . . .         | 5  |
| Detection Summary . . . . .      | 6  |
| Client Sample Results . . . . .  | 7  |
| Action Limit Summary . . . . .   | 14 |
| Surrogate Summary . . . . .      | 15 |
| QC Sample Results . . . . .      | 18 |
| QC Association Summary . . . . . | 35 |
| Lab Chronicle . . . . .          | 37 |
| Certification Summary . . . . .  | 39 |
| Method Summary . . . . .         | 41 |
| Sample Summary . . . . .         | 42 |
| Chain of Custody . . . . .       | 43 |
| Receipt Checklists . . . . .     | 46 |



## Definitions/Glossary

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

Job ID: 380-137752-1  
SDG: Weekly

### Qualifiers

#### GC/MS Semi VOA

| Qualifier | Qualifier Description                                                                                          |
|-----------|----------------------------------------------------------------------------------------------------------------|
| F1        | MS and/or MSD recovery exceeds control limits.                                                                 |
| J         | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

#### GC/MS Semi VOA TICs

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

### 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: 380-137752-1

**Job ID: 380-137752-1**

**Eurofins Eaton Analytical Pomona**

## **Job Narrative 380-137752-1**

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

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

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

### **Receipt**

The samples were received on 2/26/2025 10:29 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 0.7°C and 0.8°C.

### **GC/MS Semi VOA**

Method 625.1\_SIM: The Method Blank (MB) prepared with batch 539018 was damaged. A new MB was prepared, but was outside the 24-hour batch time. All samples in the batch were non-detect for all target analytes and therefore, the samples were not re-extracted. HALAWA WELLS UNITS 1 & 2 (331-206-TP065) (380-137752-1), HALAWA WELLS UNITS 1 & 2 (331-206-TP065) (380-137752-1[MS]), HALAWA WELLS UNITS 1 & 2 (331-206-TP065) (380-137752-1[MSD]), AIEA WELLS PUMPS 1&2 (260) (331-203-TP400) (380-137752-2) and (MB 570-539018/1-A)

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**

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

Eurofins Eaton Analytical Pomona

## Detection Summary

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

Job ID: 380-137752-1  
SDG: Weekly

**Client Sample ID: HALAWA WELLS UNITS 1 & 2  
(331-206-TP065)**  
**PWSID Number: HI0000331**

**Lab Sample ID: 380-137752-1**

| Analyte                       | Result | Qualifier | RL     | Unit | Dil Fac | D | Method | Prep Type |
|-------------------------------|--------|-----------|--------|------|---------|---|--------|-----------|
| Dieldrin                      | 0.032  |           | 0.0097 | ug/L | 1       |   | 525.2  | Total/NA  |
| Heptachlor epoxide (isomer B) | 0.012  |           | 0.0097 | ug/L | 1       |   | 525.2  | Total/NA  |

**Client Sample ID: AIEA WELLS PUMPS 1&2 (260)  
(331-203-TP400)**  
**PWSID Number: HI0000331**

**Lab Sample ID: 380-137752-2**

| Analyte  | Result | Qualifier | RL     | Unit | Dil Fac | D | Method | Prep Type |
|----------|--------|-----------|--------|------|---------|---|--------|-----------|
| Dieldrin | 0.010  |           | 0.0097 | ug/L | 1       |   | 525.2  | Total/NA  |

**Client Sample ID: TB: HALAWA WELLS UNITS 1&2  
(331-206-TP065)**

**Lab Sample ID: 380-137752-3**

No Detections.

**Client Sample ID: TB: AIEA WELLS PUMPS 1&2 (260)  
(331-203-TP400)**

**Lab Sample ID: 380-137752-4**

No Detections.

# Client Sample Results

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

Job ID: 380-137752-1  
SDG: Weekly

**Client Sample ID: HALAWA WELLS UNITS 1 & 2  
(331-206-TP065)**

**Lab Sample ID: 380-137752-1**

Date Collected: 02/24/25 10:23

Matrix: Drinking Water

Date Received: 02/26/25 10:29

PWSID Number: HI0000331

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

| Analyte                          | Result       | Qualifier | RL     | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------------------------------|--------------|-----------|--------|------|---|----------------|----------------|---------|
| 1-Methylnaphthalene              | <0.097       |           | 0.097  | ug/L |   | 02/27/25 10:34 | 02/28/25 15:39 | 1       |
| 2,4'-DDD                         | <0.097       |           | 0.097  | ug/L |   | 02/27/25 10:34 | 02/28/25 15:39 | 1       |
| 2,4'-DDE                         | <0.097       |           | 0.097  | ug/L |   | 02/27/25 10:34 | 02/28/25 15:39 | 1       |
| 2,4'-DDT                         | <0.097       |           | 0.097  | ug/L |   | 02/27/25 10:34 | 02/28/25 15:39 | 1       |
| 2,4-Dinitrotoluene               | <0.097       |           | 0.097  | ug/L |   | 02/27/25 10:34 | 02/28/25 15:39 | 1       |
| 2,6-Dinitrotoluene               | <0.097       |           | 0.097  | ug/L |   | 02/27/25 10:34 | 02/28/25 15:39 | 1       |
| 2-Methylnaphthalene              | <0.097       |           | 0.097  | ug/L |   | 02/27/25 10:34 | 02/28/25 15:39 | 1       |
| 4,4'-DDD                         | <0.097       |           | 0.097  | ug/L |   | 02/27/25 10:34 | 02/28/25 15:39 | 1       |
| 4,4'-DDE                         | <0.097       |           | 0.097  | ug/L |   | 02/27/25 10:34 | 02/28/25 15:39 | 1       |
| 4,4'-DDT                         | <0.097       |           | 0.097  | ug/L |   | 02/27/25 10:34 | 02/28/25 15:39 | 1       |
| Acenaphthene                     | <0.097       |           | 0.097  | ug/L |   | 02/27/25 10:34 | 02/28/25 15:39 | 1       |
| Acenaphthylene                   | <0.097       |           | 0.097  | ug/L |   | 02/27/25 10:34 | 02/28/25 15:39 | 1       |
| Acetochlor                       | <0.097       |           | 0.097  | ug/L |   | 02/27/25 10:34 | 02/28/25 15:39 | 1       |
| Alachlor                         | <0.049       |           | 0.049  | ug/L |   | 02/27/25 10:34 | 02/28/25 15:39 | 1       |
| alpha-BHC                        | <0.097       |           | 0.097  | ug/L |   | 02/27/25 10:34 | 02/28/25 15:39 | 1       |
| alpha-Chlordane                  | <0.049       |           | 0.049  | ug/L |   | 02/27/25 10:34 | 02/28/25 15:39 | 1       |
| Anthracene                       | <0.019       |           | 0.019  | ug/L |   | 02/27/25 10:34 | 02/28/25 15:39 | 1       |
| Atrazine                         | <0.049       |           | 0.049  | ug/L |   | 02/27/25 10:34 | 02/28/25 15:39 | 1       |
| Benz(a)anthracene                | <0.049       |           | 0.049  | ug/L |   | 02/27/25 10:34 | 02/28/25 15:39 | 1       |
| Benzo[a]pyrene                   | <0.019       |           | 0.019  | ug/L |   | 02/27/25 10:34 | 02/28/25 15:39 | 1       |
| Benzo[b]fluoranthene             | <0.019       |           | 0.019  | ug/L |   | 02/27/25 10:34 | 02/28/25 15:39 | 1       |
| Benzo[g,h,i]perylene             | <0.049       |           | 0.049  | ug/L |   | 02/27/25 10:34 | 02/28/25 15:39 | 1       |
| Benzo[k]fluoranthene             | <0.019       |           | 0.019  | ug/L |   | 02/27/25 10:34 | 02/28/25 15:39 | 1       |
| beta-BHC                         | <0.097       |           | 0.097  | ug/L |   | 02/27/25 10:34 | 02/28/25 15:39 | 1       |
| Bis(2-ethylhexyl) phthalate      | <0.58        |           | 0.58   | ug/L |   | 02/27/25 10:34 | 02/28/25 15:39 | 1       |
| Bromacil                         | <0.097       |           | 0.097  | ug/L |   | 02/27/25 10:34 | 02/28/25 15:39 | 1       |
| Butachlor                        | <0.049       |           | 0.049  | ug/L |   | 02/27/25 10:34 | 02/28/25 15:39 | 1       |
| Butylbenzylphthalate             | <0.49        |           | 0.49   | ug/L |   | 02/27/25 10:34 | 02/28/25 15:39 | 1       |
| Chlorobenzilate                  | <0.097       |           | 0.097  | ug/L |   | 02/27/25 10:34 | 02/28/25 15:39 | 1       |
| Chloroneb                        | <0.097       |           | 0.097  | ug/L |   | 02/27/25 10:34 | 02/28/25 15:39 | 1       |
| Chlorothalonil (Draconil, Bravo) | <0.097       |           | 0.097  | ug/L |   | 02/27/25 10:34 | 02/28/25 15:39 | 1       |
| Chlorpyrifos                     | <0.049       |           | 0.049  | ug/L |   | 02/27/25 10:34 | 02/28/25 15:39 | 1       |
| Chrysene                         | <0.019       |           | 0.019  | ug/L |   | 02/27/25 10:34 | 02/28/25 15:39 | 1       |
| delta-BHC                        | <0.097       |           | 0.097  | ug/L |   | 02/27/25 10:34 | 02/28/25 15:39 | 1       |
| Di(2-ethylhexyl)adipate          | <0.58        |           | 0.58   | ug/L |   | 02/27/25 10:34 | 02/28/25 15:39 | 1       |
| Dibenz(a,h)anthracene            | <0.049       |           | 0.049  | ug/L |   | 02/27/25 10:34 | 02/28/25 15:39 | 1       |
| Diclorvos (DDVP)                 | <0.049       |           | 0.049  | ug/L |   | 02/27/25 10:34 | 02/28/25 15:39 | 1       |
| <b>Dieldrin</b>                  | <b>0.032</b> |           | 0.0097 | ug/L |   | 02/27/25 10:34 | 02/28/25 15:39 | 1       |
| Diethylphthalate                 | <0.49        |           | 0.49   | ug/L |   | 02/27/25 10:34 | 02/28/25 15:39 | 1       |
| Dimethylphthalate                | <0.49        |           | 0.49   | ug/L |   | 02/27/25 10:34 | 02/28/25 15:39 | 1       |
| Di-n-butyl phthalate             | <0.97        |           | 0.97   | ug/L |   | 02/27/25 10:34 | 02/28/25 15:39 | 1       |
| Di-n-octyl phthalate             | <0.097       |           | 0.097  | ug/L |   | 02/27/25 10:34 | 02/28/25 15:39 | 1       |
| Endosulfan I (Alpha)             | <0.097       |           | 0.097  | ug/L |   | 02/27/25 10:34 | 02/28/25 15:39 | 1       |
| Endosulfan II (Beta)             | <0.097       |           | 0.097  | ug/L |   | 02/27/25 10:34 | 02/28/25 15:39 | 1       |
| Endosulfan sulfate               | <0.097       |           | 0.097  | ug/L |   | 02/27/25 10:34 | 02/28/25 15:39 | 1       |
| Endrin                           | <0.0097      |           | 0.0097 | ug/L |   | 02/27/25 10:34 | 02/28/25 15:39 | 1       |
| Endrin aldehyde                  | <0.097       |           | 0.097  | ug/L |   | 02/27/25 10:34 | 02/28/25 15:39 | 1       |
| EPTC                             | <0.097       |           | 0.097  | ug/L |   | 02/27/25 10:34 | 02/28/25 15:39 | 1       |

Eurofins Eaton Analytical Pomona

# Client Sample Results

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

Job ID: 380-137752-1  
SDG: Weekly

**Client Sample ID: HALAWA WELLS UNITS 1 & 2  
(331-206-TP065)**

**Lab Sample ID: 380-137752-1**

**Date Collected: 02/24/25 10:23**

**Matrix: Drinking Water**

**Date Received: 02/26/25 10:29**

**PWSID Number: HI0000331**

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

| Analyte                          | Result  | Qualifier | RL     | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------------------------------|---------|-----------|--------|------|---|----------------|----------------|---------|
| Fluoranthene                     | <0.097  |           | 0.097  | ug/L |   | 02/27/25 10:34 | 02/28/25 15:39 | 1       |
| Fluorene                         | <0.049  |           | 0.049  | ug/L |   | 02/27/25 10:34 | 02/28/25 15:39 | 1       |
| gamma-Chlordane                  | <0.049  |           | 0.049  | ug/L |   | 02/27/25 10:34 | 02/28/25 15:39 | 1       |
| Heptachlor                       | <0.0097 |           | 0.0097 | ug/L |   | 02/27/25 10:34 | 02/28/25 15:39 | 1       |
| Heptachlor epoxide (isomer B)    | 0.012   |           | 0.0097 | ug/L |   | 02/27/25 10:34 | 02/28/25 15:39 | 1       |
| Hexachlorobenzene                | <0.049  |           | 0.049  | ug/L |   | 02/27/25 10:34 | 02/28/25 15:39 | 1       |
| Hexachlorocyclopentadiene        | <0.049  |           | 0.049  | ug/L |   | 02/27/25 10:34 | 02/28/25 15:39 | 1       |
| Indeno[1,2,3-cd]pyrene           | <0.049  |           | 0.049  | ug/L |   | 02/27/25 10:34 | 02/28/25 15:39 | 1       |
| Isophorone                       | <0.097  |           | 0.097  | ug/L |   | 02/27/25 10:34 | 02/28/25 15:39 | 1       |
| Lindane                          | <0.0097 |           | 0.0097 | ug/L |   | 02/27/25 10:34 | 02/28/25 15:39 | 1       |
| Malathion                        | <0.097  |           | 0.097  | ug/L |   | 02/27/25 10:34 | 02/28/25 15:39 | 1       |
| Methoxychlor                     | <0.049  |           | 0.049  | ug/L |   | 02/27/25 10:34 | 02/28/25 15:39 | 1       |
| Metolachlor                      | <0.049  |           | 0.049  | ug/L |   | 02/27/25 10:34 | 02/28/25 15:39 | 1       |
| Molinate                         | <0.097  |           | 0.097  | ug/L |   | 02/27/25 10:34 | 02/28/25 15:39 | 1       |
| Naphthalene                      | <0.097  |           | 0.097  | ug/L |   | 02/27/25 10:34 | 02/28/25 15:39 | 1       |
| Parathion                        | <0.097  |           | 0.097  | ug/L |   | 02/27/25 10:34 | 02/28/25 15:39 | 1       |
| Pendimethalin (Penoxaline)       | <0.097  |           | 0.097  | ug/L |   | 02/27/25 10:34 | 02/28/25 15:39 | 1       |
| Phenanthrene                     | <0.039  |           | 0.039  | ug/L |   | 02/27/25 10:34 | 02/28/25 15:39 | 1       |
| Propachlor                       | <0.049  |           | 0.049  | ug/L |   | 02/27/25 10:34 | 02/28/25 15:39 | 1       |
| Pyrene                           | <0.049  |           | 0.049  | ug/L |   | 02/27/25 10:34 | 02/28/25 15:39 | 1       |
| Simazine                         | <0.049  |           | 0.049  | ug/L |   | 02/27/25 10:34 | 02/28/25 15:39 | 1       |
| Terbacil                         | <0.097  |           | 0.097  | ug/L |   | 02/27/25 10:34 | 02/28/25 15:39 | 1       |
| Terbutylazine                    | <0.097  |           | 0.097  | ug/L |   | 02/27/25 10:34 | 02/28/25 15:39 | 1       |
| Thiobencarb                      | <0.097  |           | 0.097  | ug/L |   | 02/27/25 10:34 | 02/28/25 15:39 | 1       |
| Total Permethrin (mixed isomers) | <0.19   |           | 0.19   | ug/L |   | 02/27/25 10:34 | 02/28/25 15:39 | 1       |
| trans-Nonachlor                  | <0.049  |           | 0.049  | ug/L |   | 02/27/25 10:34 | 02/28/25 15:39 | 1       |
| Trifluralin                      | <0.097  |           | 0.097  | ug/L |   | 02/27/25 10:34 | 02/28/25 15:39 | 1       |

| Tentatively Identified Compound | Est. Result | Qualifier | Unit | D | RT | CAS No. | Prepared       | Analyzed       | Dil Fac |
|---------------------------------|-------------|-----------|------|---|----|---------|----------------|----------------|---------|
| Tentatively Identified Compound | None        |           | ug/L |   |    | N/A     | 02/27/25 10:34 | 02/28/25 15:39 | 1       |

| Surrogate          | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|--------------------|-----------|-----------|----------|----------------|----------------|---------|
| 2-Nitro-m-xylene   | 98        |           | 70 - 130 | 02/27/25 10:34 | 02/28/25 15:39 | 1       |
| Perylene-d12       | 95        |           | 70 - 130 | 02/27/25 10:34 | 02/28/25 15:39 | 1       |
| Triphenylphosphate | 93        |           | 70 - 130 | 02/27/25 10:34 | 02/28/25 15:39 | 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 |   | 02/28/25 04:41 | 03/03/25 19:51 | 1       |
| 2-Methylnaphthalene  | <0.19  |           | 0.19 | ug/L |   | 02/28/25 04:41 | 03/03/25 19:51 | 1       |
| Acenaphthene         | <0.19  |           | 0.19 | ug/L |   | 02/28/25 04:41 | 03/03/25 19:51 | 1       |
| Acenaphthylene       | <0.19  |           | 0.19 | ug/L |   | 02/28/25 04:41 | 03/03/25 19:51 | 1       |
| Anthracene           | <0.19  |           | 0.19 | ug/L |   | 02/28/25 04:41 | 03/03/25 19:51 | 1       |
| Benzo[a]anthracene   | <0.19  |           | 0.19 | ug/L |   | 02/28/25 04:41 | 03/03/25 19:51 | 1       |
| Benzo[a]pyrene       | <0.19  |           | 0.19 | ug/L |   | 02/28/25 04:41 | 03/03/25 19:51 | 1       |
| Benzo[b]fluoranthene | <0.19  |           | 0.19 | ug/L |   | 02/28/25 04:41 | 03/03/25 19:51 | 1       |
| Benzo[g,h,i]perylene | <0.19  |           | 0.19 | ug/L |   | 02/28/25 04:41 | 03/03/25 19:51 | 1       |
| Benzo[k]fluoranthene | <0.19  |           | 0.19 | ug/L |   | 02/28/25 04:41 | 03/03/25 19:51 | 1       |
| Chrysene             | <0.19  |           | 0.19 | ug/L |   | 02/28/25 04:41 | 03/03/25 19:51 | 1       |

Eurofins Eaton Analytical Pomona



# Client Sample Results

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

Job ID: 380-137752-1  
SDG: Weekly

**Client Sample ID: HALAWA WELLS UNITS 1 & 2  
(331-206-TP065)**

**Lab Sample ID: 380-137752-1**

**Date Collected: 02/24/25 10:23**

**Matrix: Drinking Water**

**Date Received: 02/26/25 10:29**

**PWSID Number: HI0000331**

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

| Analyte                | Result | Qualifier | RL   | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------------------|--------|-----------|------|------|---|----------------|----------------|---------|
| Dibenz(a,h)anthracene  | <0.19  |           | 0.19 | ug/L |   | 02/28/25 04:41 | 03/03/25 19:51 | 1       |
| Fluoranthene           | <0.19  |           | 0.19 | ug/L |   | 02/28/25 04:41 | 03/03/25 19:51 | 1       |
| Fluorene               | <0.19  |           | 0.19 | ug/L |   | 02/28/25 04:41 | 03/03/25 19:51 | 1       |
| Indeno[1,2,3-cd]pyrene | <0.19  |           | 0.19 | ug/L |   | 02/28/25 04:41 | 03/03/25 19:51 | 1       |
| Naphthalene            | <0.19  |           | 0.19 | ug/L |   | 02/28/25 04:41 | 03/03/25 19:51 | 1       |
| Phenanthrene           | <0.19  |           | 0.19 | ug/L |   | 02/28/25 04:41 | 03/03/25 19:51 | 1       |
| Pyrene                 | <0.19  |           | 0.19 | ug/L |   | 02/28/25 04:41 | 03/03/25 19:51 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 2,4,6-Tribromophenol (Surr) | 75        |           | 28 - 127 | 02/28/25 04:41 | 03/03/25 19:51 | 1       |
| 2-Fluorobiphenyl (Surr)     | 74        |           | 31 - 120 | 02/28/25 04:41 | 03/03/25 19:51 | 1       |
| 2-Fluorophenol (Surr)       | 45        |           | 17 - 120 | 02/28/25 04:41 | 03/03/25 19:51 | 1       |
| Nitrobenzene-d5 (Surr)      | 77        |           | 27 - 120 | 02/28/25 04:41 | 03/03/25 19:51 | 1       |
| Phenol-d6 (Surr)            | 29        |           | 10 - 120 | 02/28/25 04:41 | 03/03/25 19:51 | 1       |
| p-Terphenyl-d14 (Surr)      | 96        |           | 45 - 120 | 02/28/25 04:41 | 03/03/25 19:51 | 1       |

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

| Tentatively Identified Compound | Est. Result | Qualifier | Unit | D | RT   | CAS No.    | Prepared       | Analyzed       | Dil Fac |
|---------------------------------|-------------|-----------|------|---|------|------------|----------------|----------------|---------|
| 2-Pentenal, (E)-                | 38          | T J N     | ug/L |   | 2.37 | 1576-87-0  | 02/28/25 04:41 | 03/11/25 22:06 | 1       |
| 2-Hexene, 3,4,4-trimethyl-      | 24          | T J N     | ug/L |   | 2.59 | 53941-19-8 | 02/28/25 04:41 | 03/11/25 22:06 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 2,4,6-Tribromophenol (Surr) | 100       |           | 33 - 139 | 02/28/25 04:41 | 03/11/25 22:06 | 1       |
| 2-Fluorobiphenyl (Surr)     | 92        |           | 33 - 126 | 02/28/25 04:41 | 03/11/25 22:06 | 1       |
| 2-Fluorophenol (Surr)       | 54        |           | 12 - 120 | 02/28/25 04:41 | 03/11/25 22:06 | 1       |
| Nitrobenzene-d5 (Surr)      | 89        |           | 36 - 120 | 02/28/25 04:41 | 03/11/25 22:06 | 1       |
| Phenol-d6 (Surr)            | 33        |           | 10 - 120 | 02/28/25 04:41 | 03/11/25 22:06 | 1       |
| p-Terphenyl-d14 (Surr)      | 97        |           | 47 - 131 | 02/28/25 04:41 | 03/11/25 22:06 | 1       |

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

| Analyte      | Result | Qualifier | RL | Unit | D | Prepared | Analyzed       | Dil Fac |
|--------------|--------|-----------|----|------|---|----------|----------------|---------|
| GRO (C6-C10) | <10    |           | 10 | ug/L |   |          | 03/05/25 15:40 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 83        |           | 38 - 134 |          | 03/05/25 15:40 | 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 |   | 02/28/25 12:00 | 03/10/25 18:01 | 1       |
| Motor Oil Range Organics [C24-C36] | <26    |           | 26 | ug/L |   | 02/28/25 12:00 | 03/10/25 18:01 | 1       |
| C8-C18                             | <26    |           | 26 | ug/L |   | 02/28/25 12:00 | 03/10/25 18:01 | 1       |

| Surrogate           | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|---------------------|-----------|-----------|----------|----------------|----------------|---------|
| n-Octacosane (Surr) | 104       |           | 60 - 130 | 02/28/25 12:00 | 03/10/25 18:01 | 1       |

Eurofins Eaton Analytical Pomona

# Client Sample Results

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

Job ID: 380-137752-1  
SDG: Weekly

**Client Sample ID: AIEA WELLS PUMPS 1&2 (260)  
(331-203-TP400)**

**Lab Sample ID: 380-137752-2**

**Date Collected: 02/24/25 11:34**

**Matrix: Drinking Water**

**Date Received: 02/26/25 10:29**

**PWSID Number: HI0000331**

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

| Analyte                          | Result       | Qualifier | RL     | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------------------------------|--------------|-----------|--------|------|---|----------------|----------------|---------|
| 1-Methylnaphthalene              | <0.097       |           | 0.097  | ug/L |   | 02/27/25 10:34 | 02/28/25 15:59 | 1       |
| 2,4'-DDD                         | <0.097       |           | 0.097  | ug/L |   | 02/27/25 10:34 | 02/28/25 15:59 | 1       |
| 2,4'-DDE                         | <0.097       |           | 0.097  | ug/L |   | 02/27/25 10:34 | 02/28/25 15:59 | 1       |
| 2,4'-DDT                         | <0.097       |           | 0.097  | ug/L |   | 02/27/25 10:34 | 02/28/25 15:59 | 1       |
| 2,4-Dinitrotoluene               | <0.097       |           | 0.097  | ug/L |   | 02/27/25 10:34 | 02/28/25 15:59 | 1       |
| 2,6-Dinitrotoluene               | <0.097       |           | 0.097  | ug/L |   | 02/27/25 10:34 | 02/28/25 15:59 | 1       |
| 2-Methylnaphthalene              | <0.097       |           | 0.097  | ug/L |   | 02/27/25 10:34 | 02/28/25 15:59 | 1       |
| 4,4'-DDD                         | <0.097       |           | 0.097  | ug/L |   | 02/27/25 10:34 | 02/28/25 15:59 | 1       |
| 4,4'-DDE                         | <0.097       |           | 0.097  | ug/L |   | 02/27/25 10:34 | 02/28/25 15:59 | 1       |
| 4,4'-DDT                         | <0.097       |           | 0.097  | ug/L |   | 02/27/25 10:34 | 02/28/25 15:59 | 1       |
| Acenaphthene                     | <0.097       |           | 0.097  | ug/L |   | 02/27/25 10:34 | 02/28/25 15:59 | 1       |
| Acenaphthylene                   | <0.097       |           | 0.097  | ug/L |   | 02/27/25 10:34 | 02/28/25 15:59 | 1       |
| Acetochlor                       | <0.097       |           | 0.097  | ug/L |   | 02/27/25 10:34 | 02/28/25 15:59 | 1       |
| Alachlor                         | <0.049       |           | 0.049  | ug/L |   | 02/27/25 10:34 | 02/28/25 15:59 | 1       |
| alpha-BHC                        | <0.097       |           | 0.097  | ug/L |   | 02/27/25 10:34 | 02/28/25 15:59 | 1       |
| alpha-Chlordane                  | <0.049       |           | 0.049  | ug/L |   | 02/27/25 10:34 | 02/28/25 15:59 | 1       |
| Anthracene                       | <0.019       |           | 0.019  | ug/L |   | 02/27/25 10:34 | 02/28/25 15:59 | 1       |
| Atrazine                         | <0.049       |           | 0.049  | ug/L |   | 02/27/25 10:34 | 02/28/25 15:59 | 1       |
| Benz(a)anthracene                | <0.049       |           | 0.049  | ug/L |   | 02/27/25 10:34 | 02/28/25 15:59 | 1       |
| Benzo[a]pyrene                   | <0.019       |           | 0.019  | ug/L |   | 02/27/25 10:34 | 02/28/25 15:59 | 1       |
| Benzo[b]fluoranthene             | <0.019       |           | 0.019  | ug/L |   | 02/27/25 10:34 | 02/28/25 15:59 | 1       |
| Benzo[g,h,i]perylene             | <0.049       |           | 0.049  | ug/L |   | 02/27/25 10:34 | 02/28/25 15:59 | 1       |
| Benzo[k]fluoranthene             | <0.019       |           | 0.019  | ug/L |   | 02/27/25 10:34 | 02/28/25 15:59 | 1       |
| beta-BHC                         | <0.097       |           | 0.097  | ug/L |   | 02/27/25 10:34 | 02/28/25 15:59 | 1       |
| Bis(2-ethylhexyl) phthalate      | <0.58        |           | 0.58   | ug/L |   | 02/27/25 10:34 | 02/28/25 15:59 | 1       |
| Bromacil                         | <0.097       |           | 0.097  | ug/L |   | 02/27/25 10:34 | 02/28/25 15:59 | 1       |
| Butachlor                        | <0.049       |           | 0.049  | ug/L |   | 02/27/25 10:34 | 02/28/25 15:59 | 1       |
| Butylbenzylphthalate             | <0.49        |           | 0.49   | ug/L |   | 02/27/25 10:34 | 02/28/25 15:59 | 1       |
| Chlorobenzilate                  | <0.097       |           | 0.097  | ug/L |   | 02/27/25 10:34 | 02/28/25 15:59 | 1       |
| Chloroneb                        | <0.097       |           | 0.097  | ug/L |   | 02/27/25 10:34 | 02/28/25 15:59 | 1       |
| Chlorothalonil (Draconil, Bravo) | <0.097       |           | 0.097  | ug/L |   | 02/27/25 10:34 | 02/28/25 15:59 | 1       |
| Chlorpyrifos                     | <0.049       |           | 0.049  | ug/L |   | 02/27/25 10:34 | 02/28/25 15:59 | 1       |
| Chrysene                         | <0.019       |           | 0.019  | ug/L |   | 02/27/25 10:34 | 02/28/25 15:59 | 1       |
| delta-BHC                        | <0.097       |           | 0.097  | ug/L |   | 02/27/25 10:34 | 02/28/25 15:59 | 1       |
| Di(2-ethylhexyl)adipate          | <0.58        |           | 0.58   | ug/L |   | 02/27/25 10:34 | 02/28/25 15:59 | 1       |
| Dibenz(a,h)anthracene            | <0.049       |           | 0.049  | ug/L |   | 02/27/25 10:34 | 02/28/25 15:59 | 1       |
| Diclorvos (DDVP)                 | <0.049       |           | 0.049  | ug/L |   | 02/27/25 10:34 | 02/28/25 15:59 | 1       |
| <b>Dieldrin</b>                  | <b>0.010</b> |           | 0.0097 | ug/L |   | 02/27/25 10:34 | 02/28/25 15:59 | 1       |
| Diethylphthalate                 | <0.49        |           | 0.49   | ug/L |   | 02/27/25 10:34 | 02/28/25 15:59 | 1       |
| Dimethylphthalate                | <0.49        |           | 0.49   | ug/L |   | 02/27/25 10:34 | 02/28/25 15:59 | 1       |
| Di-n-butyl phthalate             | <0.97        |           | 0.97   | ug/L |   | 02/27/25 10:34 | 02/28/25 15:59 | 1       |
| Di-n-octyl phthalate             | <0.097       |           | 0.097  | ug/L |   | 02/27/25 10:34 | 02/28/25 15:59 | 1       |
| Endosulfan I (Alpha)             | <0.097       |           | 0.097  | ug/L |   | 02/27/25 10:34 | 02/28/25 15:59 | 1       |
| Endosulfan II (Beta)             | <0.097       |           | 0.097  | ug/L |   | 02/27/25 10:34 | 02/28/25 15:59 | 1       |
| Endosulfan sulfate               | <0.097       |           | 0.097  | ug/L |   | 02/27/25 10:34 | 02/28/25 15:59 | 1       |
| Endrin                           | <0.0097      |           | 0.0097 | ug/L |   | 02/27/25 10:34 | 02/28/25 15:59 | 1       |
| Endrin aldehyde                  | <0.097       |           | 0.097  | ug/L |   | 02/27/25 10:34 | 02/28/25 15:59 | 1       |
| EPTC                             | <0.097       |           | 0.097  | ug/L |   | 02/27/25 10:34 | 02/28/25 15:59 | 1       |

Eurofins Eaton Analytical Pomona

# Client Sample Results

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

Job ID: 380-137752-1  
SDG: Weekly

**Client Sample ID: AIEA WELLS PUMPS 1&2 (260)**  
**(331-203-TP400)**

**Lab Sample ID: 380-137752-2**

**Date Collected: 02/24/25 11:34**

**Matrix: Drinking Water**

**Date Received: 02/26/25 10:29**

**PWSID Number: HI0000331**

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

| Analyte                          | Result  | Qualifier | RL     | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------------------------------|---------|-----------|--------|------|---|----------------|----------------|---------|
| Fluoranthene                     | <0.097  |           | 0.097  | ug/L |   | 02/27/25 10:34 | 02/28/25 15:59 | 1       |
| Fluorene                         | <0.049  |           | 0.049  | ug/L |   | 02/27/25 10:34 | 02/28/25 15:59 | 1       |
| gamma-Chlordane                  | <0.049  |           | 0.049  | ug/L |   | 02/27/25 10:34 | 02/28/25 15:59 | 1       |
| Heptachlor                       | <0.0097 |           | 0.0097 | ug/L |   | 02/27/25 10:34 | 02/28/25 15:59 | 1       |
| Heptachlor epoxide (isomer B)    | <0.0097 |           | 0.0097 | ug/L |   | 02/27/25 10:34 | 02/28/25 15:59 | 1       |
| Hexachlorobenzene                | <0.049  |           | 0.049  | ug/L |   | 02/27/25 10:34 | 02/28/25 15:59 | 1       |
| Hexachlorocyclopentadiene        | <0.049  |           | 0.049  | ug/L |   | 02/27/25 10:34 | 02/28/25 15:59 | 1       |
| Indeno[1,2,3-cd]pyrene           | <0.049  |           | 0.049  | ug/L |   | 02/27/25 10:34 | 02/28/25 15:59 | 1       |
| Isophorone                       | <0.097  |           | 0.097  | ug/L |   | 02/27/25 10:34 | 02/28/25 15:59 | 1       |
| Lindane                          | <0.0097 |           | 0.0097 | ug/L |   | 02/27/25 10:34 | 02/28/25 15:59 | 1       |
| Malathion                        | <0.097  |           | 0.097  | ug/L |   | 02/27/25 10:34 | 02/28/25 15:59 | 1       |
| Methoxychlor                     | <0.049  |           | 0.049  | ug/L |   | 02/27/25 10:34 | 02/28/25 15:59 | 1       |
| Metolachlor                      | <0.049  |           | 0.049  | ug/L |   | 02/27/25 10:34 | 02/28/25 15:59 | 1       |
| Molinate                         | <0.097  |           | 0.097  | ug/L |   | 02/27/25 10:34 | 02/28/25 15:59 | 1       |
| Naphthalene                      | <0.097  |           | 0.097  | ug/L |   | 02/27/25 10:34 | 02/28/25 15:59 | 1       |
| Parathion                        | <0.097  |           | 0.097  | ug/L |   | 02/27/25 10:34 | 02/28/25 15:59 | 1       |
| Pendimethalin (Penoxaline)       | <0.097  |           | 0.097  | ug/L |   | 02/27/25 10:34 | 02/28/25 15:59 | 1       |
| Phenanthrene                     | <0.039  |           | 0.039  | ug/L |   | 02/27/25 10:34 | 02/28/25 15:59 | 1       |
| Propachlor                       | <0.049  |           | 0.049  | ug/L |   | 02/27/25 10:34 | 02/28/25 15:59 | 1       |
| Pyrene                           | <0.049  |           | 0.049  | ug/L |   | 02/27/25 10:34 | 02/28/25 15:59 | 1       |
| Simazine                         | <0.049  |           | 0.049  | ug/L |   | 02/27/25 10:34 | 02/28/25 15:59 | 1       |
| Terbacil                         | <0.097  |           | 0.097  | ug/L |   | 02/27/25 10:34 | 02/28/25 15:59 | 1       |
| Terbutylazine                    | <0.097  |           | 0.097  | ug/L |   | 02/27/25 10:34 | 02/28/25 15:59 | 1       |
| Thiobencarb                      | <0.097  |           | 0.097  | ug/L |   | 02/27/25 10:34 | 02/28/25 15:59 | 1       |
| Total Permethrin (mixed isomers) | <0.19   |           | 0.19   | ug/L |   | 02/27/25 10:34 | 02/28/25 15:59 | 1       |
| trans-Nonachlor                  | <0.049  |           | 0.049  | ug/L |   | 02/27/25 10:34 | 02/28/25 15:59 | 1       |
| Trifluralin                      | <0.097  |           | 0.097  | ug/L |   | 02/27/25 10:34 | 02/28/25 15:59 | 1       |

| Tentatively Identified Compound | Est. Result | Qualifier | Unit | D | RT | CAS No. | Prepared       | Analyzed       | Dil Fac |
|---------------------------------|-------------|-----------|------|---|----|---------|----------------|----------------|---------|
| Tentatively Identified Compound | None        |           | ug/L |   |    | N/A     | 02/27/25 10:34 | 02/28/25 15:59 | 1       |

| Surrogate          | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|--------------------|-----------|-----------|----------|----------------|----------------|---------|
| 2-Nitro-m-xylene   | 98        |           | 70 - 130 | 02/27/25 10:34 | 02/28/25 15:59 | 1       |
| Perylene-d12       | 97        |           | 70 - 130 | 02/27/25 10:34 | 02/28/25 15:59 | 1       |
| Triphenylphosphate | 97        |           | 70 - 130 | 02/27/25 10:34 | 02/28/25 15:59 | 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 |   | 02/28/25 04:41 | 03/03/25 23:57 | 1       |
| 2-Methylnaphthalene  | <0.19  |           | 0.19 | ug/L |   | 02/28/25 04:41 | 03/03/25 23:57 | 1       |
| Acenaphthene         | <0.19  |           | 0.19 | ug/L |   | 02/28/25 04:41 | 03/03/25 23:57 | 1       |
| Acenaphthylene       | <0.19  |           | 0.19 | ug/L |   | 02/28/25 04:41 | 03/03/25 23:57 | 1       |
| Anthracene           | <0.19  |           | 0.19 | ug/L |   | 02/28/25 04:41 | 03/03/25 23:57 | 1       |
| Benzo[a]anthracene   | <0.19  |           | 0.19 | ug/L |   | 02/28/25 04:41 | 03/03/25 23:57 | 1       |
| Benzo[a]pyrene       | <0.19  |           | 0.19 | ug/L |   | 02/28/25 04:41 | 03/03/25 23:57 | 1       |
| Benzo[b]fluoranthene | <0.19  |           | 0.19 | ug/L |   | 02/28/25 04:41 | 03/03/25 23:57 | 1       |
| Benzo[g,h,i]perylene | <0.19  |           | 0.19 | ug/L |   | 02/28/25 04:41 | 03/03/25 23:57 | 1       |
| Benzo[k]fluoranthene | <0.19  |           | 0.19 | ug/L |   | 02/28/25 04:41 | 03/03/25 23:57 | 1       |
| Chrysene             | <0.19  |           | 0.19 | ug/L |   | 02/28/25 04:41 | 03/03/25 23:57 | 1       |

Eurofins Eaton Analytical Pomona

# Client Sample Results

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

Job ID: 380-137752-1  
SDG: Weekly

**Client Sample ID: AIEA WELLS PUMPS 1&2 (260)**  
**(331-203-TP400)**

**Lab Sample ID: 380-137752-2**

**Date Collected: 02/24/25 11:34**

**Matrix: Drinking Water**

**Date Received: 02/26/25 10:29**

**PWSID Number: HI0000331**

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

| Analyte                | Result | Qualifier | RL   | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------------------|--------|-----------|------|------|---|----------------|----------------|---------|
| Dibenz(a,h)anthracene  | <0.19  |           | 0.19 | ug/L |   | 02/28/25 04:41 | 03/03/25 23:57 | 1       |
| Fluoranthene           | <0.19  |           | 0.19 | ug/L |   | 02/28/25 04:41 | 03/03/25 23:57 | 1       |
| Fluorene               | <0.19  |           | 0.19 | ug/L |   | 02/28/25 04:41 | 03/03/25 23:57 | 1       |
| Indeno[1,2,3-cd]pyrene | <0.19  |           | 0.19 | ug/L |   | 02/28/25 04:41 | 03/03/25 23:57 | 1       |
| Naphthalene            | <0.19  |           | 0.19 | ug/L |   | 02/28/25 04:41 | 03/03/25 23:57 | 1       |
| Phenanthrene           | <0.19  |           | 0.19 | ug/L |   | 02/28/25 04:41 | 03/03/25 23:57 | 1       |
| Pyrene                 | <0.19  |           | 0.19 | ug/L |   | 02/28/25 04:41 | 03/03/25 23:57 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 2,4,6-Tribromophenol (Surr) | 50        |           | 28 - 127 | 02/28/25 04:41 | 03/03/25 23:57 | 1       |
| 2-Fluorobiphenyl (Surr)     | 53        |           | 31 - 120 | 02/28/25 04:41 | 03/03/25 23:57 | 1       |
| 2-Fluorophenol (Surr)       | 36        |           | 17 - 120 | 02/28/25 04:41 | 03/03/25 23:57 | 1       |
| Nitrobenzene-d5 (Surr)      | 53        |           | 27 - 120 | 02/28/25 04:41 | 03/03/25 23:57 | 1       |
| Phenol-d6 (Surr)            | 23        |           | 10 - 120 | 02/28/25 04:41 | 03/03/25 23:57 | 1       |
| p-Terphenyl-d14 (Surr)      | 74        |           | 45 - 120 | 02/28/25 04:41 | 03/03/25 23:57 | 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 |
|--------------------------------------|-------------|-----------|------|---|------|------------|----------------|----------------|---------|
| 3-Hexene, 2,2,5,5-tetramethyl-, (Z)- | 13          | T J N     | ug/L |   | 2.16 | 692-47-7   | 02/28/25 04:41 | 03/11/25 22:28 | 1       |
| 2-Pentenal, (E)-                     | 32          | T J N     | ug/L |   | 2.37 | 1576-87-0  | 02/28/25 04:41 | 03/11/25 22:28 | 1       |
| Octane, 2-chloro-                    | 14          | T J N     | ug/L |   | 2.46 | 628-61-5   | 02/28/25 04:41 | 03/11/25 22:28 | 1       |
| 4-Octen-3-one                        | 19          | T J N     | ug/L |   | 2.59 | 14129-48-7 | 02/28/25 04:41 | 03/11/25 22:28 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 2,4,6-Tribromophenol (Surr) | 71        |           | 33 - 139 | 02/28/25 04:41 | 03/11/25 22:28 | 1       |
| 2-Fluorobiphenyl (Surr)     | 62        |           | 33 - 126 | 02/28/25 04:41 | 03/11/25 22:28 | 1       |
| 2-Fluorophenol (Surr)       | 39        |           | 12 - 120 | 02/28/25 04:41 | 03/11/25 22:28 | 1       |
| Nitrobenzene-d5 (Surr)      | 59        |           | 36 - 120 | 02/28/25 04:41 | 03/11/25 22:28 | 1       |
| Phenol-d6 (Surr)            | 24        |           | 10 - 120 | 02/28/25 04:41 | 03/11/25 22:28 | 1       |
| p-Terphenyl-d14 (Surr)      | 80        |           | 47 - 131 | 02/28/25 04:41 | 03/11/25 22:28 | 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 |   |          | 03/05/25 18:02 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 80        |           | 38 - 134 |          | 03/05/25 18:02 | 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 |   | 02/28/25 17:06 | 03/10/25 19:47 | 1       |
| Motor Oil Range Organics [C24-C36] | <26    |           | 26 | ug/L |   | 02/28/25 17:06 | 03/10/25 19:47 | 1       |
| C8-C18                             | <26    |           | 26 | ug/L |   | 02/28/25 17:06 | 03/10/25 19:47 | 1       |

| Surrogate           | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|---------------------|-----------|-----------|----------|----------------|----------------|---------|
| n-Octacosane (Surr) | 109       |           | 60 - 130 | 02/28/25 17:06 | 03/10/25 19:47 | 1       |

Eurofins Eaton Analytical Pomona

# Client Sample Results

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

Job ID: 380-137752-1  
SDG: Weekly

**Client Sample ID: TB: HALAWA WELLS UNITS 1&2  
(331-206-TP065)**

**Lab Sample ID: 380-137752-3**

**Date Collected: 02/24/25 10:23**

**Matrix: Water**

**Date Received: 02/26/25 10:29**

**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 |   |          | 03/05/25 21:20 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |      |   | Prepared | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 79        |           | 38 - 134 |      |   |          | 03/05/25 21:20 | 1       |

**Client Sample ID: TB: AIEA WELLS PUMPS 1&2 (260)  
(331-203-TP400)**

**Lab Sample ID: 380-137752-4**

**Date Collected: 02/24/25 11:34**

**Matrix: Water**

**Date Received: 02/26/25 10:29**

**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 |   |          | 03/05/25 21:46 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |      |   | Prepared | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 75        |           | 38 - 134 |      |   |          | 03/05/25 21:46 | 1       |

# Action Limit Summary

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

Job ID: 380-137752-1  
SDG: Weekly

**Client Sample ID: HALAWA WELLS UNITS 1 & 2**  
**(331-206-TP065)**  
**PWSID Number: HI0000331**

**Lab Sample ID: 380-137752-1**

## 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 | RL     | Method    | Prep Type |
|-------------------------------|---------|-----------|------|--------|--------|-----------|-----------|
|                               |         |           |      | Limit  |        |           |           |
| Alachlor                      | <0.049  |           | ug/L | 2      | 0.049  | 525.2     | Total/NA  |
| Atrazine                      | <0.049  |           | ug/L | 3      | 0.049  | 525.2     | Total/NA  |
| Benzo[a]pyrene                | <0.019  |           | ug/L | 0.2    | 0.019  | 525.2     | Total/NA  |
| Bis(2-ethylhexyl) phthalate   | <0.58   |           | ug/L | 6      | 0.58   | 525.2     | Total/NA  |
| Di(2-ethylhexyl)adipate       | <0.58   |           | ug/L | 400    | 0.58   | 525.2     | Total/NA  |
| Endrin                        | <0.0097 |           | ug/L | 2      | 0.0097 | 525.2     | Total/NA  |
| Heptachlor                    | <0.0097 |           | ug/L | 0.4    | 0.0097 | 525.2     | Total/NA  |
| Heptachlor epoxide (isomer B) | 0.012   |           | ug/L | 0.2    | 0.0097 | 525.2     | Total/NA  |
| Hexachlorobenzene             | <0.049  |           | ug/L | 1      | 0.049  | 525.2     | Total/NA  |
| Hexachlorocyclopentadiene     | <0.049  |           | ug/L | 50     | 0.049  | 525.2     | Total/NA  |
| Lindane                       | <0.0097 |           | ug/L | 0.2    | 0.0097 | 525.2     | Total/NA  |
| Methoxychlor                  | <0.049  |           | ug/L | 40     | 0.049  | 525.2     | Total/NA  |
| Simazine                      | <0.049  |           | ug/L | 4      | 0.049  | 525.2     | Total/NA  |
| Benzo[a]pyrene                | <0.19   |           | ug/L | 0.2    | 0.19   | 625.1 SIM | Total/NA  |

**Client Sample ID: AIEA WELLS PUMPS 1&2 (260)**  
**(331-203-TP400)**  
**PWSID Number: HI0000331**

**Lab Sample ID: 380-137752-2**

## Compliance Check

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

| Analyte                       | Result  | Qualifier | Unit | EPAMCL | RL     | Method    | Prep Type |
|-------------------------------|---------|-----------|------|--------|--------|-----------|-----------|
|                               |         |           |      | Limit  |        |           |           |
| Alachlor                      | <0.049  |           | ug/L | 2      | 0.049  | 525.2     | Total/NA  |
| Atrazine                      | <0.049  |           | ug/L | 3      | 0.049  | 525.2     | Total/NA  |
| Benzo[a]pyrene                | <0.019  |           | ug/L | 0.2    | 0.019  | 525.2     | Total/NA  |
| Bis(2-ethylhexyl) phthalate   | <0.58   |           | ug/L | 6      | 0.58   | 525.2     | Total/NA  |
| Di(2-ethylhexyl)adipate       | <0.58   |           | ug/L | 400    | 0.58   | 525.2     | Total/NA  |
| Endrin                        | <0.0097 |           | ug/L | 2      | 0.0097 | 525.2     | Total/NA  |
| Heptachlor                    | <0.0097 |           | ug/L | 0.4    | 0.0097 | 525.2     | Total/NA  |
| Heptachlor epoxide (isomer B) | <0.0097 |           | ug/L | 0.2    | 0.0097 | 525.2     | Total/NA  |
| Hexachlorobenzene             | <0.049  |           | ug/L | 1      | 0.049  | 525.2     | Total/NA  |
| Hexachlorocyclopentadiene     | <0.049  |           | ug/L | 50     | 0.049  | 525.2     | Total/NA  |
| Lindane                       | <0.0097 |           | ug/L | 0.2    | 0.0097 | 525.2     | Total/NA  |
| Methoxychlor                  | <0.049  |           | ug/L | 40     | 0.049  | 525.2     | Total/NA  |
| Simazine                      | <0.049  |           | ug/L | 4      | 0.049  | 525.2     | Total/NA  |
| Benzo[a]pyrene                | <0.19   |           | ug/L | 0.2    | 0.19   | 625.1 SIM | Total/NA  |

# Surrogate Summary

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

Job ID: 380-137752-1  
SDG: Weekly

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

Matrix: Drinking Water

Prep Type: Total/NA

| Lab Sample ID            | Client Sample ID                              | Percent Surrogate Recovery (Acceptance Limits) |                 |                 |  |  |  |  |
|--------------------------|-----------------------------------------------|------------------------------------------------|-----------------|-----------------|--|--|--|--|
|                          |                                               | 2NMX<br>(70-130)                               | PRY<br>(70-130) | TPP<br>(70-130) |  |  |  |  |
| 380-137752-1             | HALAWA WELLS UNITS 1 & 2 (                    | 98                                             | 95              | 93              |  |  |  |  |
| 380-137752-2             | AIEA WELLS PUMPS 1&2 (260)<br>(331-203-TP400) | 98                                             | 97              | 97              |  |  |  |  |
| <b>Surrogate Legend</b>  |                                               |                                                |                 |                 |  |  |  |  |
| 2NMX = 2-Nitro-m-xylene  |                                               |                                                |                 |                 |  |  |  |  |
| PRY = Perylene d12       |                                               |                                                |                 |                 |  |  |  |  |
| TPP = Triphenylphosphate |                                               |                                                |                 |                 |  |  |  |  |

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

Matrix: Water

Prep Type: Total/NA

| Lab Sample ID            | Client Sample ID       | Percent Surrogate Recovery (Acceptance Limits) |                 |                 |  |  |  |  |
|--------------------------|------------------------|------------------------------------------------|-----------------|-----------------|--|--|--|--|
|                          |                        | 2NMX<br>(70-130)                               | PRY<br>(70-130) | TPP<br>(70-130) |  |  |  |  |
| 380-137743-B-1-A MS      | Matrix Spike           | 98                                             | 96              | 99              |  |  |  |  |
| 380-137756-B-1-A DU      | Duplicate              | 97                                             | 90              | 95              |  |  |  |  |
| LCS 380-138422/23-A      | Lab Control Sample     | 97                                             | 99              | 100             |  |  |  |  |
| LCSD 380-138422/24-A     | Lab Control Sample Dup | 96                                             | 98              | 101             |  |  |  |  |
| MB 380-138422/21-A       | Method Blank           | 97                                             | 97              | 97              |  |  |  |  |
| MRL 380-138422/22-A      | Lab Control Sample     | 97                                             | 98              | 96              |  |  |  |  |
| <b>Surrogate Legend</b>  |                        |                                                |                 |                 |  |  |  |  |
| 2NMX = 2-Nitro-m-xylene  |                        |                                                |                 |                 |  |  |  |  |
| PRY = Perylene-d12       |                        |                                                |                 |                 |  |  |  |  |
| TPP = Triphenylphosphate |                        |                                                |                 |                 |  |  |  |  |

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

Matrix: Drinking Water

Prep Type: Total/NA

| Lab Sample ID                     | Client Sample ID                              | Percent Surrogate Recovery (Acceptance Limits) |                 |                 |                 |                  |                    |  |  |
|-----------------------------------|-----------------------------------------------|------------------------------------------------|-----------------|-----------------|-----------------|------------------|--------------------|--|--|
|                                   |                                               | TBP<br>(33-139)                                | FBP<br>(33-126) | 2FP<br>(12-120) | NBZ<br>(36-120) | PHL6<br>(10-120) | TPHd14<br>(47-131) |  |  |
| 380-137752-1                      | HALAWA WELLS UNITS 1 & 2 (                    | 100                                            | 92              | 54              | 89              | 33               | 97                 |  |  |
| 380-137752-2                      | AIEA WELLS PUMPS 1&2 (260)<br>(331-203-TP400) | 71                                             | 62              | 39              | 59              | 24               | 80                 |  |  |
| <b>Surrogate Legend</b>           |                                               |                                                |                 |                 |                 |                  |                    |  |  |
| 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: Drinking 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) |  |  |
| 380-137752-1  | HALAWA WELLS UNITS 1 & 2 ( | 75                                             | 74              | 45              | 77              | 29               | 96                 |  |  |

Eurofins Eaton Analytical Pomona



# Surrogate Summary

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

Job ID: 380-137752-1  
SDG: Weekly

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

Matrix: Drinking 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) |
| 380-137752-1 MS  | HALAWA WELLS UNITS 1 & 2 (                    | 77                                             | 75              | 51              | 69              | 34               | 87                 |
| 380-137752-1 MSD | HALAWA WELLS UNITS 1 & 2<br>(331-206-TP065)   | 77                                             | 77              | 51              | 72              | 34               | 87                 |
| 380-137752-2     | AIEA WELLS PUMPS 1&2 (260)<br>(331-203-TP400) | 50                                             | 53              | 36              | 53              | 23               | 74                 |

### 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) |
| LCS 570-539018/2-A  | Lab Control Sample     | 76                                             | 74              | 50              | 68              | 35               | 88                 |
| LCSD 570-539018/3-A | Lab Control Sample Dup | 75                                             | 74              | 56              | 69              | 37               | 85                 |
| MB 570-539018/1-A   | Method Blank           | 72                                             | 73              | 41              | 77              | 27               | 89                 |

### Surrogate Legend

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

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

Matrix: Drinking Water

Prep Type: Total/NA

| Lab Sample ID    | Client Sample ID                              | Percent Surrogate Recovery (Acceptance Limits) |  |  |  |  |  |
|------------------|-----------------------------------------------|------------------------------------------------|--|--|--|--|--|
|                  |                                               | BFB1<br>(38-134)                               |  |  |  |  |  |
| 380-137752-1     | HALAWA WELLS UNITS 1 & 2 (                    | 83                                             |  |  |  |  |  |
| 380-137752-1 MS  | HALAWA WELLS UNITS 1 & 2<br>(331-206-TP065)   | 98                                             |  |  |  |  |  |
| 380-137752-1 MSD | HALAWA WELLS UNITS 1 & 2<br>(331-206-TP065)   | 98                                             |  |  |  |  |  |
| 380-137752-2     | AIEA WELLS PUMPS 1&2 (260)<br>(331-203-TP400) | 80                                             |  |  |  |  |  |

### Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)



# Surrogate Summary

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

Job ID: 380-137752-1  
SDG: Weekly

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

Matrix: Water

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

| Lab Sample ID     | Client Sample ID                                  | BFB1<br>(38-134) |
|-------------------|---------------------------------------------------|------------------|
| 380-137752-3      | TB: HALAWA WELLS UNITS 1&2                        | 79               |
| 380-137752-4      | TB: AIEA WELLS PUMPS 1&2<br>(260) (331-203-TP400) | 75               |
| LCS 570-541268/4  | Lab Control Sample                                | 94               |
| LCSD 570-541268/7 | Lab Control Sample Dup                            | 97               |
| MB 570-541268/6   | Method Blank                                      | 81               |
| MRL 570 541268/3  | Lab Control Sample                                | 79               |

#### Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

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

Matrix: Drinking Water

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

| Lab Sample ID    | Client Sample ID                              | OTCSN1<br>(60-130) |
|------------------|-----------------------------------------------|--------------------|
| 380-137752-1     | HALAWA WELLS UNITS 1 & 2 (                    | 104                |
| 380-137752-1 MS  | HALAWA WELLS UNITS 1 & 2<br>(331-206-TP065)   | 107                |
| 380-137752-1 MSD | HALAWA WELLS UNITS 1 & 2<br>(331-206-TP065)   | 110                |
| 380-137752-2     | AIEA WELLS PUMPS 1&2 (260)<br>(331-203-TP400) | 109                |

#### Surrogate Legend

OTCSN = n-Octacosane (Surr)

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

Matrix: Water

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

| Lab Sample ID       | Client Sample ID       | OTCSN1<br>(60-130) |
|---------------------|------------------------|--------------------|
| LCS 570-539581/2-A  | Lab Control Sample     | 121                |
| LCSD 570-539581/3-A | Lab Control Sample Dup | 104                |
| MB 570-539581/1-A   | Method Blank           | 104                |
| MRL 570-539581/4-A  | Lab Control Sample     | 101                |

#### Surrogate Legend

OTCSN = n-Octacosane (Surr)

# QC Sample Results

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

Job ID: 380-137752-1  
SDG: Weekly

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

Lab Sample ID: MB 380-138422/21-A

Matrix: Water

Analysis Batch: 138710

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 138422

| Analyte                          | MB Result | MB Qualifier | RL     | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------------------------------|-----------|--------------|--------|------|---|----------------|----------------|---------|
| 1-Methylnaphthalene              | <0.099    |              | 0.099  | ug/L |   | 02/27/25 10:34 | 02/28/25 14:36 | 1       |
| 2,4'-DDD                         | <0.099    |              | 0.099  | ug/L |   | 02/27/25 10:34 | 02/28/25 14:36 | 1       |
| 2,4'-DDE                         | <0.099    |              | 0.099  | ug/L |   | 02/27/25 10:34 | 02/28/25 14:36 | 1       |
| 2,4'-DDT                         | <0.099    |              | 0.099  | ug/L |   | 02/27/25 10:34 | 02/28/25 14:36 | 1       |
| 2,4-Dinitrotoluene               | <0.099    |              | 0.099  | ug/L |   | 02/27/25 10:34 | 02/28/25 14:36 | 1       |
| 2,6-Dinitrotoluene               | <0.099    |              | 0.099  | ug/L |   | 02/27/25 10:34 | 02/28/25 14:36 | 1       |
| 2-Methylnaphthalene              | <0.099    |              | 0.099  | ug/L |   | 02/27/25 10:34 | 02/28/25 14:36 | 1       |
| 4,4'-DDD                         | <0.099    |              | 0.099  | ug/L |   | 02/27/25 10:34 | 02/28/25 14:36 | 1       |
| 4,4'-DDE                         | <0.099    |              | 0.099  | ug/L |   | 02/27/25 10:34 | 02/28/25 14:36 | 1       |
| 4,4'-DDT                         | <0.099    |              | 0.099  | ug/L |   | 02/27/25 10:34 | 02/28/25 14:36 | 1       |
| Acenaphthene                     | <0.099    |              | 0.099  | ug/L |   | 02/27/25 10:34 | 02/28/25 14:36 | 1       |
| Acenaphthylene                   | <0.099    |              | 0.099  | ug/L |   | 02/27/25 10:34 | 02/28/25 14:36 | 1       |
| Acetochlor                       | <0.099    |              | 0.099  | ug/L |   | 02/27/25 10:34 | 02/28/25 14:36 | 1       |
| Alachlor                         | <0.050    |              | 0.050  | ug/L |   | 02/27/25 10:34 | 02/28/25 14:36 | 1       |
| alpha-BHC                        | <0.099    |              | 0.099  | ug/L |   | 02/27/25 10:34 | 02/28/25 14:36 | 1       |
| alpha-Chlordane                  | <0.050    |              | 0.050  | ug/L |   | 02/27/25 10:34 | 02/28/25 14:36 | 1       |
| Anthracene                       | <0.020    |              | 0.020  | ug/L |   | 02/27/25 10:34 | 02/28/25 14:36 | 1       |
| Atrazine                         | <0.050    |              | 0.050  | ug/L |   | 02/27/25 10:34 | 02/28/25 14:36 | 1       |
| Benz(a)anthracene                | <0.050    |              | 0.050  | ug/L |   | 02/27/25 10:34 | 02/28/25 14:36 | 1       |
| Benzo[a]pyrene                   | <0.020    |              | 0.020  | ug/L |   | 02/27/25 10:34 | 02/28/25 14:36 | 1       |
| Benzo[b]fluoranthene             | <0.020    |              | 0.020  | ug/L |   | 02/27/25 10:34 | 02/28/25 14:36 | 1       |
| Benzo[g,h,i]perylene             | <0.050    |              | 0.050  | ug/L |   | 02/27/25 10:34 | 02/28/25 14:36 | 1       |
| Benzo[k]fluoranthene             | <0.020    |              | 0.020  | ug/L |   | 02/27/25 10:34 | 02/28/25 14:36 | 1       |
| beta-BHC                         | <0.099    |              | 0.099  | ug/L |   | 02/27/25 10:34 | 02/28/25 14:36 | 1       |
| Bis(2-ethylhexyl) phthalate      | <0.60     |              | 0.60   | ug/L |   | 02/27/25 10:34 | 02/28/25 14:36 | 1       |
| Bromacil                         | <0.099    |              | 0.099  | ug/L |   | 02/27/25 10:34 | 02/28/25 14:36 | 1       |
| Butachlor                        | <0.050    |              | 0.050  | ug/L |   | 02/27/25 10:34 | 02/28/25 14:36 | 1       |
| Butylbenzylphthalate             | <0.50     |              | 0.50   | ug/L |   | 02/27/25 10:34 | 02/28/25 14:36 | 1       |
| Chlorobenzilate                  | <0.099    |              | 0.099  | ug/L |   | 02/27/25 10:34 | 02/28/25 14:36 | 1       |
| Chloroneb                        | <0.099    |              | 0.099  | ug/L |   | 02/27/25 10:34 | 02/28/25 14:36 | 1       |
| Chlorothalonil (Draconil, Bravo) | <0.099    |              | 0.099  | ug/L |   | 02/27/25 10:34 | 02/28/25 14:36 | 1       |
| Chlorpyrifos                     | <0.050    |              | 0.050  | ug/L |   | 02/27/25 10:34 | 02/28/25 14:36 | 1       |
| Chrysene                         | <0.020    |              | 0.020  | ug/L |   | 02/27/25 10:34 | 02/28/25 14:36 | 1       |
| delta-BHC                        | <0.099    |              | 0.099  | ug/L |   | 02/27/25 10:34 | 02/28/25 14:36 | 1       |
| Di(2-ethylhexyl)adipate          | <0.60     |              | 0.60   | ug/L |   | 02/27/25 10:34 | 02/28/25 14:36 | 1       |
| Dibenz(a,h)anthracene            | <0.050    |              | 0.050  | ug/L |   | 02/27/25 10:34 | 02/28/25 14:36 | 1       |
| Diclorvos (DDVP)                 | <0.050    |              | 0.050  | ug/L |   | 02/27/25 10:34 | 02/28/25 14:36 | 1       |
| Dieldrin                         | <0.0099   |              | 0.0099 | ug/L |   | 02/27/25 10:34 | 02/28/25 14:36 | 1       |
| Diethylphthalate                 | <0.50     |              | 0.50   | ug/L |   | 02/27/25 10:34 | 02/28/25 14:36 | 1       |
| Dimethylphthalate                | <0.50     |              | 0.50   | ug/L |   | 02/27/25 10:34 | 02/28/25 14:36 | 1       |
| Di-n-butyl phthalate             | <0.99     |              | 0.99   | ug/L |   | 02/27/25 10:34 | 02/28/25 14:36 | 1       |
| Di-n-octyl phthalate             | <0.099    |              | 0.099  | ug/L |   | 02/27/25 10:34 | 02/28/25 14:36 | 1       |
| Endosulfan I (Alpha)             | <0.099    |              | 0.099  | ug/L |   | 02/27/25 10:34 | 02/28/25 14:36 | 1       |
| Endosulfan II (Beta)             | <0.099    |              | 0.099  | ug/L |   | 02/27/25 10:34 | 02/28/25 14:36 | 1       |
| Endosulfan sulfate               | <0.099    |              | 0.099  | ug/L |   | 02/27/25 10:34 | 02/28/25 14:36 | 1       |
| Endrin                           | <0.0099   |              | 0.0099 | ug/L |   | 02/27/25 10:34 | 02/28/25 14:36 | 1       |
| Endrin aldehyde                  | <0.099    |              | 0.099  | ug/L |   | 02/27/25 10:34 | 02/28/25 14:36 | 1       |
| EPTC                             | <0.099    |              | 0.099  | ug/L |   | 02/27/25 10:34 | 02/28/25 14:36 | 1       |

Eurofins Eaton Analytical Pomona

# QC Sample Results

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

Job ID: 380-137752-1  
SDG: Weekly

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

Lab Sample ID: MB 380-138422/21-A

Matrix: Water

Analysis Batch: 138710

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 138422

| Analyte                          | MB Result | MB Qualifier | RL     | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------------------------------|-----------|--------------|--------|------|---|----------------|----------------|---------|
| Fluoranthene                     | <0.099    |              | 0.099  | ug/L |   | 02/27/25 10:34 | 02/28/25 14:36 | 1       |
| Fluorene                         | <0.050    |              | 0.050  | ug/L |   | 02/27/25 10:34 | 02/28/25 14:36 | 1       |
| gamma-Chlordane                  | <0.050    |              | 0.050  | ug/L |   | 02/27/25 10:34 | 02/28/25 14:36 | 1       |
| Heptachlor                       | <0.0099   |              | 0.0099 | ug/L |   | 02/27/25 10:34 | 02/28/25 14:36 | 1       |
| Heptachlor epoxide (isomer B)    | <0.0099   |              | 0.0099 | ug/L |   | 02/27/25 10:34 | 02/28/25 14:36 | 1       |
| Hexachlorobenzene                | <0.050    |              | 0.050  | ug/L |   | 02/27/25 10:34 | 02/28/25 14:36 | 1       |
| Hexachlorocyclopentadiene        | <0.050    |              | 0.050  | ug/L |   | 02/27/25 10:34 | 02/28/25 14:36 | 1       |
| Indeno[1,2,3-cd]pyrene           | <0.050    |              | 0.050  | ug/L |   | 02/27/25 10:34 | 02/28/25 14:36 | 1       |
| Isophorone                       | <0.099    |              | 0.099  | ug/L |   | 02/27/25 10:34 | 02/28/25 14:36 | 1       |
| Lindane                          | <0.0099   |              | 0.0099 | ug/L |   | 02/27/25 10:34 | 02/28/25 14:36 | 1       |
| Malathion                        | <0.099    |              | 0.099  | ug/L |   | 02/27/25 10:34 | 02/28/25 14:36 | 1       |
| Methoxychlor                     | <0.050    |              | 0.050  | ug/L |   | 02/27/25 10:34 | 02/28/25 14:36 | 1       |
| Metolachlor                      | <0.050    |              | 0.050  | ug/L |   | 02/27/25 10:34 | 02/28/25 14:36 | 1       |
| Molinate                         | <0.099    |              | 0.099  | ug/L |   | 02/27/25 10:34 | 02/28/25 14:36 | 1       |
| Naphthalene                      | <0.099    |              | 0.099  | ug/L |   | 02/27/25 10:34 | 02/28/25 14:36 | 1       |
| Parathion                        | <0.099    |              | 0.099  | ug/L |   | 02/27/25 10:34 | 02/28/25 14:36 | 1       |
| Pendimethalin (Penoxaline)       | <0.099    |              | 0.099  | ug/L |   | 02/27/25 10:34 | 02/28/25 14:36 | 1       |
| Phenanthrene                     | <0.040    |              | 0.040  | ug/L |   | 02/27/25 10:34 | 02/28/25 14:36 | 1       |
| Propachlor                       | <0.050    |              | 0.050  | ug/L |   | 02/27/25 10:34 | 02/28/25 14:36 | 1       |
| Pyrene                           | <0.050    |              | 0.050  | ug/L |   | 02/27/25 10:34 | 02/28/25 14:36 | 1       |
| Simazine                         | <0.050    |              | 0.050  | ug/L |   | 02/27/25 10:34 | 02/28/25 14:36 | 1       |
| Terbacil                         | <0.099    |              | 0.099  | ug/L |   | 02/27/25 10:34 | 02/28/25 14:36 | 1       |
| Terbutylazine                    | <0.099    |              | 0.099  | ug/L |   | 02/27/25 10:34 | 02/28/25 14:36 | 1       |
| Thiobencarb                      | <0.099    |              | 0.099  | ug/L |   | 02/27/25 10:34 | 02/28/25 14:36 | 1       |
| Total Permethrin (mixed isomers) | <0.20     |              | 0.20   | ug/L |   | 02/27/25 10:34 | 02/28/25 14:36 | 1       |
| trans-Nonachlor                  | <0.050    |              | 0.050  | ug/L |   | 02/27/25 10:34 | 02/28/25 14:36 | 1       |
| Trifluralin                      | <0.099    |              | 0.099  | ug/L |   | 02/27/25 10:34 | 02/28/25 14:36 | 1       |

| Tentatively Identified Compound | MB Est. Result | MB Qualifier | Unit | D | RT    | CAS No.  | Prepared       | Analyzed       | Dil Fac |
|---------------------------------|----------------|--------------|------|---|-------|----------|----------------|----------------|---------|
| 9-Octadecenamide, (Z)-          | 2.37           | T J N        | ug/L |   | 7.88  | 301-02-0 | 02/27/25 10:34 | 02/28/25 14:36 | 1       |
| 13-Docosenamide, (Z)-           | 3.12           | T J N        | ug/L |   | 10.41 | 112-84-5 | 02/27/25 10:34 | 02/28/25 14:36 | 1       |

| Surrogate          | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|--------------------|--------------|--------------|----------|----------------|----------------|---------|
| 2-Nitro-m-xylene   | 97           |              | 70 - 130 | 02/27/25 10:34 | 02/28/25 14:36 | 1       |
| Perylene-d12       | 97           |              | 70 - 130 | 02/27/25 10:34 | 02/28/25 14:36 | 1       |
| Triphenylphosphate | 97           |              | 70 - 130 | 02/27/25 10:34 | 02/28/25 14:36 | 1       |

Lab Sample ID: LCS 380-138422/23-A

Matrix: Water

Analysis Batch: 138710

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 138422

| Analyte             | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------------------|-------------|------------|---------------|------|---|------|-------------|
| 1-Methylnaphthalene | 1.99        | 1.85       |               | ug/L |   | 93   | 70 - 130    |
| 2,4'-DDD            | 1.99        | 2.09       |               | ug/L |   | 105  | 70 - 130    |
| 2,4'-DDE            | 1.99        | 2.00       |               | ug/L |   | 100  | 70 - 130    |
| 2,4'-DDT            | 1.99        | 2.16       |               | ug/L |   | 108  | 70 - 130    |
| 2,4-Dinitrotoluene  | 1.99        | 2.02       |               | ug/L |   | 102  | 70 - 130    |
| 2,6-Dinitrotoluene  | 1.99        | 2.12       |               | ug/L |   | 106  | 70 - 130    |

Eurofins Eaton Analytical Pomona

# QC Sample Results

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

Job ID: 380-137752-1  
SDG: Weekly

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

Lab Sample ID: LCS 380-138422/23-A

Matrix: Water

Analysis Batch: 138710

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 138422

| Analyte                          | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------------------------------|-------------|------------|---------------|------|---|------|-------------|
| 2-Methylnaphthalene              | 1.99        | 1.87       |               | ug/L |   | 94   | 70 - 130    |
| 4,4'-DDD                         | 1.99        | 2.11       |               | ug/L |   | 106  | 70 - 130    |
| 4,4'-DDE                         | 1.99        | 2.02       |               | ug/L |   | 101  | 70 - 130    |
| 4,4'-DDT                         | 1.99        | 2.06       |               | ug/L |   | 103  | 70 - 130    |
| Acenaphthene                     | 1.99        | 2.01       |               | ug/L |   | 101  | 70 - 130    |
| Acenaphthylene                   | 1.99        | 1.97       |               | ug/L |   | 99   | 70 - 130    |
| Acetochlor                       | 1.99        | 2.00       |               | ug/L |   | 100  | 70 - 130    |
| Alachlor                         | 1.99        | 2.03       |               | ug/L |   | 102  | 70 - 130    |
| alpha-BHC                        | 1.99        | 1.95       |               | ug/L |   | 98   | 70 - 130    |
| alpha-Chlordane                  | 1.99        | 1.92       |               | ug/L |   | 96   | 70 - 130    |
| Anthracene                       | 1.99        | 1.81       |               | ug/L |   | 91   | 70 - 130    |
| Atrazine                         | 1.99        | 2.17       |               | ug/L |   | 109  | 70 - 130    |
| Benz(a)anthracene                | 1.99        | 2.07       |               | ug/L |   | 104  | 70 - 130    |
| Benzo[a]pyrene                   | 1.99        | 2.07       |               | ug/L |   | 104  | 70 - 130    |
| Benzo[b]fluoranthene             | 1.99        | 2.19       |               | ug/L |   | 110  | 70 - 130    |
| Benzo[g,h,i]perylene             | 1.99        | 2.13       |               | ug/L |   | 107  | 70 - 130    |
| Benzo[k]fluoranthene             | 1.99        | 2.14       |               | ug/L |   | 108  | 70 - 130    |
| beta-BHC                         | 1.99        | 2.04       |               | ug/L |   | 103  | 70 - 130    |
| Bis(2-ethylhexyl) phthalate      | 1.99        | 2.15       |               | ug/L |   | 108  | 70 - 130    |
| Bromacil                         | 1.99        | 2.11       |               | ug/L |   | 106  | 70 - 130    |
| Butachlor                        | 1.99        | 2.24       |               | ug/L |   | 112  | 70 - 130    |
| Butylbenzylphthalate             | 1.99        | 2.11       |               | ug/L |   | 106  | 70 - 130    |
| Chlorobenzilate                  | 1.99        | 1.80       |               | ug/L |   | 90   | 70 - 130    |
| Chloroneb                        | 1.99        | 1.91       |               | ug/L |   | 96   | 70 - 130    |
| Chlorothalonil (Draconil, Bravo) | 1.99        | 2.14       |               | ug/L |   | 108  | 70 - 130    |
| Chlorpyrifos                     | 1.99        | 2.12       |               | ug/L |   | 107  | 70 - 130    |
| Chrysene                         | 1.99        | 2.03       |               | ug/L |   | 102  | 70 - 130    |
| delta-BHC                        | 1.99        | 1.96       |               | ug/L |   | 99   | 70 - 130    |
| Di(2-ethylhexyl)adipate          | 1.99        | 2.16       |               | ug/L |   | 109  | 70 - 130    |
| Dibenz(a,h)anthracene            | 1.99        | 2.05       |               | ug/L |   | 103  | 70 - 130    |
| Diclorvos (DDVP)                 | 1.99        | 2.07       |               | ug/L |   | 104  | 70 - 130    |
| Dieldrin                         | 1.99        | 1.92       |               | ug/L |   | 97   | 70 - 130    |
| Diethylphthalate                 | 1.99        | 2.06       |               | ug/L |   | 104  | 70 - 130    |
| Dimethylphthalate                | 1.99        | 2.04       |               | ug/L |   | 102  | 70 - 130    |
| Di-n-butyl phthalate             | 3.98        | 4.22       |               | ug/L |   | 106  | 70 - 130    |
| Di-n-octyl phthalate             | 1.99        | 2.00       |               | ug/L |   | 101  | 70 - 130    |
| Endosulfan I (Alpha)             | 1.99        | 1.96       |               | ug/L |   | 99   | 70 - 130    |
| Endosulfan II (Beta)             | 1.99        | 2.05       |               | ug/L |   | 103  | 70 - 130    |
| Endosulfan sulfate               | 1.99        | 2.06       |               | ug/L |   | 104  | 70 - 130    |
| Endrin                           | 1.99        | 2.10       |               | ug/L |   | 105  | 70 - 130    |
| Endrin aldehyde                  | 1.99        | 1.96       |               | ug/L |   | 98   | 60 - 130    |
| EPTC                             | 1.99        | 2.08       |               | ug/L |   | 104  | 70 - 130    |
| Fluoranthene                     | 1.99        | 2.13       |               | ug/L |   | 107  | 70 - 130    |
| Fluorene                         | 1.99        | 2.01       |               | ug/L |   | 101  | 70 - 130    |
| gamma-Chlordane                  | 1.99        | 1.93       |               | ug/L |   | 97   | 70 - 130    |
| Heptachlor                       | 1.99        | 2.18       |               | ug/L |   | 109  | 70 - 130    |
| Heptachlor epoxide (isomer B)    | 1.99        | 1.97       |               | ug/L |   | 99   | 70 - 130    |
| Hexachlorobenzene                | 1.99        | 1.84       |               | ug/L |   | 92   | 70 - 130    |
| Hexachlorocyclopentadiene        | 1.99        | 1.88       |               | ug/L |   | 94   | 70 - 130    |

Eurofins Eaton Analytical Pomona

# QC Sample Results

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

Job ID: 380-137752-1  
SDG: Weekly

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

Lab Sample ID: LCS 380-138422/23-A

Matrix: Water

Analysis Batch: 138710

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 138422

| Analyte                    | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------------------------|-------------|------------|---------------|------|---|------|-------------|
| Indeno[1,2,3-cd]pyrene     | 1.99        | 2.05       |               | ug/L |   | 103  | 70 - 130    |
| Isophorone                 | 1.99        | 1.99       |               | ug/L |   | 100  | 70 - 130    |
| Lindane                    | 1.99        | 2.02       |               | ug/L |   | 102  | 70 - 130    |
| Malathion                  | 1.99        | 2.10       |               | ug/L |   | 106  | 70 - 130    |
| Methoxychlor               | 1.99        | 2.08       |               | ug/L |   | 105  | 70 - 130    |
| Metolachlor                | 1.99        | 2.16       |               | ug/L |   | 109  | 70 - 130    |
| Molinate                   | 1.99        | 2.12       |               | ug/L |   | 106  | 70 - 130    |
| Naphthalene                | 1.99        | 2.01       |               | ug/L |   | 101  | 70 - 130    |
| Parathion                  | 1.99        | 2.22       |               | ug/L |   | 112  | 70 - 130    |
| Pendimethalin (Penoxaline) | 1.99        | 2.11       |               | ug/L |   | 106  | 70 - 130    |
| Phenanthrene               | 1.99        | 2.05       |               | ug/L |   | 103  | 70 - 130    |
| Propachlor                 | 1.99        | 2.13       |               | ug/L |   | 107  | 70 - 130    |
| Pyrene                     | 1.99        | 2.15       |               | ug/L |   | 108  | 70 - 130    |
| Simazine                   | 1.99        | 2.18       |               | ug/L |   | 110  | 70 - 130    |
| Terbacil                   | 1.99        | 2.32       |               | ug/L |   | 116  | 70 - 130    |
| Terbutylazine              | 1.99        | 2.16       |               | ug/L |   | 109  | 70 - 130    |
| Thiobencarb                | 1.99        | 2.29       |               | ug/L |   | 115  | 70 - 130    |
| trans-Nonachlor            | 1.99        | 1.92       |               | ug/L |   | 96   | 70 - 130    |
| Trifluralin                | 1.99        | 1.85       |               | ug/L |   | 93   | 70 - 130    |

| Surrogate          | LCS %Recovery | LCS Qualifier | Limits   |
|--------------------|---------------|---------------|----------|
| 2-Nitro-m-xylene   | 97            |               | 70 - 130 |
| Perylene-d12       | 99            |               | 70 - 130 |
| Triphenylphosphate | 100           |               | 70 - 130 |

Lab Sample ID: LCSD 380-138422/24-A

Matrix: Water

Analysis Batch: 138710

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 138422

| Analyte             | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------------------|-------------|-------------|----------------|------|---|------|-------------|-----|-----------|
| 1-Methylnaphthalene | 1.99        | 1.87        |                | ug/L |   | 94   | 70 - 130    | 1   | 20        |
| 2,4'-DDD            | 1.99        | 2.08        |                | ug/L |   | 105  | 70 - 130    | 0   | 20        |
| 2,4'-DDE            | 1.99        | 1.97        |                | ug/L |   | 99   | 70 - 130    | 1   | 20        |
| 2,4'-DDT            | 1.99        | 2.16        |                | ug/L |   | 109  | 70 - 130    | 0   | 20        |
| 2,4-Dinitrotoluene  | 1.99        | 2.08        |                | ug/L |   | 105  | 70 - 130    | 3   | 20        |
| 2,6-Dinitrotoluene  | 1.99        | 2.19        |                | ug/L |   | 110  | 70 - 130    | 3   | 20        |
| 2-Methylnaphthalene | 1.99        | 1.88        |                | ug/L |   | 94   | 70 - 130    | 0   | 20        |
| 4,4'-DDD            | 1.99        | 2.12        |                | ug/L |   | 107  | 70 - 130    | 0   | 20        |
| 4,4'-DDE            | 1.99        | 2.01        |                | ug/L |   | 101  | 70 - 130    | 1   | 20        |
| 4,4'-DDT            | 1.99        | 2.06        |                | ug/L |   | 103  | 70 - 130    | 0   | 20        |
| Acenaphthene        | 1.99        | 2.01        |                | ug/L |   | 101  | 70 - 130    | 0   | 20        |
| Acenaphthylene      | 1.99        | 2.00        |                | ug/L |   | 100  | 70 - 130    | 1   | 20        |
| Acetochlor          | 1.99        | 1.98        |                | ug/L |   | 99   | 70 - 130    | 1   | 20        |
| Alachlor            | 1.99        | 2.02        |                | ug/L |   | 101  | 70 - 130    | 0   | 20        |
| alpha-BHC           | 1.99        | 1.95        |                | ug/L |   | 98   | 70 - 130    | 0   | 20        |
| alpha-Chlordane     | 1.99        | 1.89        |                | ug/L |   | 95   | 70 - 130    | 1   | 20        |
| Anthracene          | 1.99        | 1.81        |                | ug/L |   | 91   | 70 - 130    | 0   | 20        |
| Atrazine            | 1.99        | 2.21        |                | ug/L |   | 111  | 70 - 130    | 2   | 20        |

Eurofins Eaton Analytical Pomona

# QC Sample Results

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

Job ID: 380-137752-1  
SDG: Weekly

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

Lab Sample ID: LCSD 380-138422/24-A

Matrix: Water

Analysis Batch: 138710

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 138422

| Analyte                          | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|----------------------------------|-------------|-------------|----------------|------|---|------|-------------|-----|-----------|
| Benz(a)anthracene                | 1.99        | 2.10        |                | ug/L |   | 105  | 70 - 130    | 1   | 20        |
| Benzo[a]pyrene                   | 1.99        | 2.09        |                | ug/L |   | 105  | 70 - 130    | 1   | 20        |
| Benzo[b]fluoranthene             | 1.99        | 2.22        |                | ug/L |   | 112  | 70 - 130    | 1   | 20        |
| Benzo[g,h,i]perylene             | 1.99        | 2.13        |                | ug/L |   | 107  | 70 - 130    | 0   | 20        |
| Benzo[k]fluoranthene             | 1.99        | 2.15        |                | ug/L |   | 108  | 70 - 130    | 1   | 20        |
| beta-BHC                         | 1.99        | 2.03        |                | ug/L |   | 102  | 70 - 130    | 1   | 20        |
| Bis(2-ethylhexyl) phthalate      | 1.99        | 2.12        |                | ug/L |   | 106  | 70 - 130    | 2   | 20        |
| Bromacil                         | 1.99        | 2.13        |                | ug/L |   | 107  | 70 - 130    | 1   | 20        |
| Butachlor                        | 1.99        | 2.26        |                | ug/L |   | 114  | 70 - 130    | 1   | 20        |
| Butylbenzylphthalate             | 1.99        | 2.17        |                | ug/L |   | 109  | 70 - 130    | 2   | 20        |
| Chlorobenzilate                  | 1.99        | 1.84        |                | ug/L |   | 93   | 70 - 130    | 2   | 20        |
| Chloroneb                        | 1.99        | 1.91        |                | ug/L |   | 96   | 70 - 130    | 0   | 20        |
| Chlorothalonil (Draconil, Bravo) | 1.99        | 2.13        |                | ug/L |   | 107  | 70 - 130    | 1   | 20        |
| Chlorpyrifos                     | 1.99        | 2.08        |                | ug/L |   | 105  | 70 - 130    | 2   | 20        |
| Chrysene                         | 1.99        | 2.04        |                | ug/L |   | 103  | 70 - 130    | 1   | 20        |
| delta-BHC                        | 1.99        | 1.93        |                | ug/L |   | 97   | 70 - 130    | 2   | 20        |
| Di(2-ethylhexyl)adipate          | 1.99        | 2.14        |                | ug/L |   | 108  | 70 - 130    | 1   | 20        |
| Dibenz(a,h)anthracene            | 1.99        | 2.06        |                | ug/L |   | 104  | 70 - 130    | 1   | 20        |
| Diclorvos (DDVP)                 | 1.99        | 2.08        |                | ug/L |   | 105  | 70 - 130    | 0   | 20        |
| Dieldrin                         | 1.99        | 1.90        |                | ug/L |   | 95   | 70 - 130    | 1   | 20        |
| Diethylphthalate                 | 1.99        | 2.06        |                | ug/L |   | 104  | 70 - 130    | 0   | 20        |
| Dimethylphthalate                | 1.99        | 2.02        |                | ug/L |   | 102  | 70 - 130    | 1   | 20        |
| Di-n-butyl phthalate             | 3.98        | 4.18        |                | ug/L |   | 105  | 70 - 130    | 1   | 20        |
| Di-n-octyl phthalate             | 1.99        | 1.99        |                | ug/L |   | 100  | 70 - 130    | 1   | 20        |
| Endosulfan I (Alpha)             | 1.99        | 1.89        |                | ug/L |   | 95   | 70 - 130    | 4   | 20        |
| Endosulfan II (Beta)             | 1.99        | 2.02        |                | ug/L |   | 102  | 70 - 130    | 2   | 20        |
| Endosulfan sulfate               | 1.99        | 2.05        |                | ug/L |   | 103  | 70 - 130    | 0   | 20        |
| Endrin                           | 1.99        | 2.07        |                | ug/L |   | 104  | 70 - 130    | 1   | 20        |
| Endrin aldehyde                  | 1.99        | 1.94        |                | ug/L |   | 97   | 60 - 130    | 1   | 20        |
| EPTC                             | 1.99        | 2.08        |                | ug/L |   | 105  | 70 - 130    | 0   | 20        |
| Fluoranthene                     | 1.99        | 2.13        |                | ug/L |   | 107  | 70 - 130    | 0   | 20        |
| Fluorene                         | 1.99        | 2.02        |                | ug/L |   | 102  | 70 - 130    | 0   | 20        |
| gamma-Chlordane                  | 1.99        | 1.91        |                | ug/L |   | 96   | 70 - 130    | 1   | 20        |
| Heptachlor                       | 1.99        | 2.11        |                | ug/L |   | 106  | 70 - 130    | 3   | 20        |
| Heptachlor epoxide (isomer B)    | 1.99        | 1.93        |                | ug/L |   | 97   | 70 - 130    | 2   | 20        |
| Hexachlorobenzene                | 1.99        | 1.85        |                | ug/L |   | 93   | 70 - 130    | 1   | 20        |
| Hexachlorocyclopentadiene        | 1.99        | 1.88        |                | ug/L |   | 95   | 70 - 130    | 0   | 20        |
| Indeno[1,2,3-cd]pyrene           | 1.99        | 2.10        |                | ug/L |   | 105  | 70 - 130    | 2   | 20        |
| Isophorone                       | 1.99        | 1.98        |                | ug/L |   | 100  | 70 - 130    | 1   | 20        |
| Lindane                          | 1.99        | 1.96        |                | ug/L |   | 98   | 70 - 130    | 3   | 20        |
| Malathion                        | 1.99        | 2.08        |                | ug/L |   | 104  | 70 - 130    | 1   | 20        |
| Methoxychlor                     | 1.99        | 2.07        |                | ug/L |   | 104  | 70 - 130    | 0   | 20        |
| Metolachlor                      | 1.99        | 2.12        |                | ug/L |   | 106  | 70 - 130    | 2   | 20        |
| Molinate                         | 1.99        | 2.11        |                | ug/L |   | 106  | 70 - 130    | 0   | 20        |
| Naphthalene                      | 1.99        | 2.00        |                | ug/L |   | 101  | 70 - 130    | 1   | 20        |
| Parathion                        | 1.99        | 2.20        |                | ug/L |   | 111  | 70 - 130    | 1   | 20        |
| Pendimethalin (Penoxaline)       | 1.99        | 2.10        |                | ug/L |   | 106  | 70 - 130    | 1   | 20        |
| Phenanthrene                     | 1.99        | 2.06        |                | ug/L |   | 104  | 70 - 130    | 0   | 20        |
| Propachlor                       | 1.99        | 2.11        |                | ug/L |   | 106  | 70 - 130    | 1   | 20        |

Eurofins Eaton Analytical Pomona

# QC Sample Results

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

Job ID: 380-137752-1  
SDG: Weekly

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

Lab Sample ID: LCSD 380-138422/24-A

Matrix: Water

Analysis Batch: 138710

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 138422

| Analyte         | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|-----------------|-------------|-------------|----------------|------|---|------|-------------|-----|-----------|
| Pyrene          | 1.99        | 2.16        |                | ug/L |   | 109  | 70 - 130    | 0   | 20        |
| Simazine        | 1.99        | 2.23        |                | ug/L |   | 112  | 70 - 130    | 2   | 20        |
| Terbacil        | 1.99        | 2.33        |                | ug/L |   | 117  | 70 - 130    | 1   | 20        |
| Terbutylazine   | 1.99        | 2.16        |                | ug/L |   | 109  | 70 - 130    | 0   | 20        |
| Thiobencarb     | 1.99        | 2.24        |                | ug/L |   | 113  | 70 - 130    | 2   | 20        |
| trans-Nonachlor | 1.99        | 1.88        |                | ug/L |   | 95   | 70 - 130    | 2   | 20        |
| Trifluralin     | 1.99        | 1.85        |                | ug/L |   | 93   | 70 - 130    | 0   | 20        |

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

Lab Sample ID: MRL 380-138422/22-A

Matrix: Water

Analysis Batch: 138710

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 138422

| Analyte                     | Spike Added | MRL Result | MRL Qualifier | Unit | D | %Rec | %Rec Limits |
|-----------------------------|-------------|------------|---------------|------|---|------|-------------|
| 1-Methylnaphthalene         | 0.0994      | 0.107      |               | ug/L |   | 108  | 50 - 150    |
| 2,4'-DDD                    | 0.0994      | 0.0940     | J             | ug/L |   | 95   | 50 - 150    |
| 2,4'-DDE                    | 0.0994      | 0.101      |               | ug/L |   | 102  | 50 - 150    |
| 2,4'-DDT                    | 0.0994      | 0.105      |               | ug/L |   | 105  | 50 - 150    |
| 2,4-Dinitrotoluene          | 0.0994      | 0.112      |               | ug/L |   | 113  | 50 - 150    |
| 2,6-Dinitrotoluene          | 0.0994      | 0.100      |               | ug/L |   | 101  | 50 - 150    |
| 2-Methylnaphthalene         | 0.0994      | 0.0996     |               | ug/L |   | 100  | 50 - 150    |
| 4,4'-DDD                    | 0.0994      | 0.105      |               | ug/L |   | 106  | 50 - 150    |
| 4,4'-DDE                    | 0.0994      | 0.102      |               | ug/L |   | 103  | 50 - 150    |
| 4,4'-DDT                    | 0.0994      | 0.114      |               | ug/L |   | 115  | 50 - 150    |
| Acenaphthene                | 0.0994      | 0.0900     | J             | ug/L |   | 91   | 50 - 150    |
| Acenaphthylene              | 0.0994      | 0.0947     | J             | ug/L |   | 95   | 50 - 150    |
| Acetochlor                  | 0.0994      | 0.111      |               | ug/L |   | 112  | 50 - 150    |
| Alachlor                    | 0.0497      | 0.0514     |               | ug/L |   | 103  | 50 - 150    |
| alpha-BHC                   | 0.0994      | 0.109      |               | ug/L |   | 109  | 50 - 150    |
| alpha-Chlordane             | 0.0248      | <0.029     |               | ug/L |   | 87   | 50 - 150    |
| Anthracene                  | 0.0199      | 0.0220     |               | ug/L |   | 111  | 50 - 150    |
| Atrazine                    | 0.0497      | 0.0503     |               | ug/L |   | 101  | 50 - 150    |
| Benz(a)anthracene           | 0.0497      | 0.0558     |               | ug/L |   | 112  | 50 - 150    |
| Benzo[a]pyrene              | 0.0199      | 0.0216     |               | ug/L |   | 109  | 50 - 150    |
| Benzo[b]fluoranthene        | 0.0199      | 0.0209     |               | ug/L |   | 105  | 50 - 150    |
| Benzo[g,h,i]perylene        | 0.0497      | 0.0462     | J             | ug/L |   | 93   | 50 - 150    |
| Benzo[k]fluoranthene        | 0.0199      | 0.0212     |               | ug/L |   | 107  | 50 - 150    |
| beta-BHC                    | 0.0994      | 0.113      |               | ug/L |   | 114  | 50 - 150    |
| Bis(2-ethylhexyl) phthalate | 0.596       | 0.630      |               | ug/L |   | 106  | 50 - 150    |
| Bromacil                    | 0.0994      | 0.108      |               | ug/L |   | 109  | 50 - 150    |
| Butachlor                   | 0.0497      | 0.0526     |               | ug/L |   | 106  | 50 - 150    |
| Butylbenzylphthalate        | 0.497       | 0.550      |               | ug/L |   | 111  | 50 - 150    |
| Chlorobenzilate             | 0.0994      | 0.0747     | J             | ug/L |   | 75   | 50 - 150    |
| Chloroneb                   | 0.0994      | 0.113      |               | ug/L |   | 114  | 50 - 150    |

Eurofins Eaton Analytical Pomona



# QC Sample Results

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

Job ID: 380-137752-1  
SDG: Weekly

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

Lab Sample ID: MRL 380-138422/22-A

Matrix: Water

Analysis Batch: 138710

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 138422

| Analyte                          | Spike Added | MRL Result | MRL Qualifier | Unit | D | %Rec | %Rec Limits |
|----------------------------------|-------------|------------|---------------|------|---|------|-------------|
| Chlorothalonil (Draconil, Bravo) | 0.0994      | 0.0921     | J             | ug/L |   | 93   | 50 - 150    |
| Chlorpyrifos                     | 0.0497      | 0.0547     |               | ug/L |   | 110  | 50 - 150    |
| Chrysene                         | 0.0199      | 0.0242     |               | ug/L |   | 122  | 50 - 150    |
| delta-BHC                        | 0.0994      | 0.115      |               | ug/L |   | 116  | 50 - 150    |
| Di(2-ethylhexyl)adipate          | 0.596       | 0.665      |               | ug/L |   | 111  | 50 - 150    |
| Dibenz(a,h)anthracene            | 0.0497      | 0.0479     | J             | ug/L |   | 97   | 50 - 150    |
| Diclorvos (DDVP)                 | 0.0497      | 0.0587     |               | ug/L |   | 118  | 50 - 150    |
| Dieldrin                         | 0.00994     | 0.0137     |               | ug/L |   | 138  | 50 - 150    |
| Diethylphthalate                 | 0.497       | 0.526      |               | ug/L |   | 106  | 50 - 150    |
| Dimethylphthalate                | 0.497       | 0.535      |               | ug/L |   | 108  | 50 - 150    |
| Di-n-butyl phthalate             | 0.497       | 0.591      | J             | ug/L |   | 119  | 49 - 243    |
| Di-n-octyl phthalate             | 0.0994      | 0.0970     | J             | ug/L |   | 98   | 50 - 150    |
| Endosulfan I (Alpha)             | 0.0994      | 0.0957     | J             | ug/L |   | 96   | 50 - 150    |
| Endosulfan II (Beta)             | 0.0994      | 0.111      |               | ug/L |   | 112  | 50 - 150    |
| Endosulfan sulfate               | 0.0994      | 0.106      |               | ug/L |   | 106  | 50 - 150    |
| Endrin                           | 0.00994     | 0.0103     |               | ug/L |   | 103  | 50 - 150    |
| Endrin aldehyde                  | 0.0994      | 0.0954     | J             | ug/L |   | 96   | 50 - 150    |
| EPTC                             | 0.0994      | 0.0982     | J             | ug/L |   | 99   | 50 - 150    |
| Fluoranthene                     | 0.0994      | 0.103      |               | ug/L |   | 103  | 50 - 150    |
| Fluorene                         | 0.0497      | 0.0525     |               | ug/L |   | 106  | 50 - 150    |
| gamma-Chlordane                  | 0.0248      | 0.0228     | J             | ug/L |   | 92   | 50 - 150    |
| Heptachlor                       | 0.00994     | 0.0129     |               | ug/L |   | 130  | 50 - 150    |
| Heptachlor epoxide (isomer B)    | 0.00994     | 0.0135     |               | ug/L |   | 136  | 50 - 150    |
| Hexachlorobenzene                | 0.0497      | 0.0484     | J             | ug/L |   | 97   | 50 - 150    |
| Hexachlorocyclopentadiene        | 0.0497      | 0.0437     | J             | ug/L |   | 88   | 50 - 150    |
| Indeno[1,2,3-cd]pyrene           | 0.0497      | 0.0478     | J             | ug/L |   | 96   | 50 - 150    |
| Isophorone                       | 0.0994      | 0.124      |               | ug/L |   | 125  | 50 - 150    |
| Lindane                          | 0.00994     | 0.0113     |               | ug/L |   | 113  | 50 - 150    |
| Malathion                        | 0.0994      | 0.106      |               | ug/L |   | 106  | 50 - 150    |
| Methoxychlor                     | 0.0497      | 0.0648     |               | ug/L |   | 130  | 50 - 150    |
| Metolachlor                      | 0.0497      | 0.0576     |               | ug/L |   | 116  | 50 - 150    |
| Molinate                         | 0.0994      | 0.112      |               | ug/L |   | 113  | 50 - 150    |
| Naphthalene                      | 0.0994      | 0.0918     | J             | ug/L |   | 92   | 50 - 150    |
| Parathion                        | 0.0994      | 0.0960     | J             | ug/L |   | 97   | 50 - 150    |
| Pendimethalin (Penoxaline)       | 0.0994      | 0.102      |               | ug/L |   | 103  | 50 - 150    |
| Phenanthrene                     | 0.0397      | 0.0378     | J             | ug/L |   | 95   | 50 - 150    |
| Propachlor                       | 0.0497      | 0.0544     |               | ug/L |   | 109  | 50 - 150    |
| Pyrene                           | 0.0497      | 0.0518     |               | ug/L |   | 104  | 50 - 150    |
| Simazine                         | 0.0497      | 0.0496     | J             | ug/L |   | 100  | 50 - 150    |
| Terbacil                         | 0.0994      | 0.101      |               | ug/L |   | 102  | 50 - 150    |
| Terbutylazine                    | 0.0994      | 0.102      |               | ug/L |   | 102  | 50 - 150    |
| Thiobencarb                      | 0.0994      | 0.107      |               | ug/L |   | 108  | 50 - 150    |
| trans-Nonachlor                  | 0.0248      | <0.026     |               | ug/L |   | 89   | 50 - 150    |
| Trifluralin                      | 0.0994      | 0.0970     | J             | ug/L |   | 98   | 50 - 150    |

| Surrogate        | MRL %Recovery | MRL Qualifier | Limits   |
|------------------|---------------|---------------|----------|
| 2-Nitro-m-xylene | 97            |               | 70 - 130 |
| Perylene-d12     | 98            |               | 70 - 130 |

Eurofins Eaton Analytical Pomona



# QC Sample Results

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

Job ID: 380-137752-1  
SDG: Weekly

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

Lab Sample ID: MRL 380-138422/22-A

Matrix: Water

Analysis Batch: 138710

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 138422

| Surrogate          | MRL<br>%Recovery | MRL<br>Qualifier | Limits   |
|--------------------|------------------|------------------|----------|
| Triphenylphosphate | 96               |                  | 70 - 130 |

Lab Sample ID: 380-137743-B-1-A MS

Matrix: Water

Analysis Batch: 138710

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 138422

| Analyte                          | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MS<br>Result | MS<br>Qualifier | Unit | D | %Rec | Limits   |
|----------------------------------|------------------|---------------------|----------------|--------------|-----------------|------|---|------|----------|
| 1-Methylnaphthalene              | <0.097           |                     | 1.97           | 1.84         |                 | ug/L |   | 94   | 70 - 130 |
| 2,4'-DDD                         | <0.097           |                     | 1.97           | 2.04         |                 | ug/L |   | 104  | 70 - 130 |
| 2,4'-DDE                         | <0.097           |                     | 1.97           | 1.91         |                 | ug/L |   | 97   | 70 - 130 |
| 2,4'-DDT                         | <0.097           |                     | 1.97           | 2.04         |                 | ug/L |   | 104  | 70 - 130 |
| 2,4-Dinitrotoluene               | <0.097           |                     | 1.97           | 2.08         |                 | ug/L |   | 106  | 70 - 130 |
| 2,6-Dinitrotoluene               | <0.097           |                     | 1.97           | 2.16         |                 | ug/L |   | 110  | 70 - 130 |
| 2-Methylnaphthalene              | <0.097           |                     | 1.97           | 1.87         |                 | ug/L |   | 95   | 70 - 130 |
| 4,4'-DDD                         | <0.097           |                     | 1.97           | 2.06         |                 | ug/L |   | 105  | 70 - 130 |
| 4,4'-DDE                         | <0.097           |                     | 1.97           | 1.89         |                 | ug/L |   | 96   | 70 - 130 |
| 4,4'-DDT                         | <0.097           |                     | 1.97           | 1.94         |                 | ug/L |   | 99   | 70 - 130 |
| Acenaphthene                     | <0.097           |                     | 1.97           | 1.99         |                 | ug/L |   | 101  | 70 - 130 |
| Acenaphthylene                   | <0.097           |                     | 1.97           | 1.95         |                 | ug/L |   | 99   | 70 - 130 |
| Acetochlor                       | <0.097           |                     | 1.97           | 1.96         |                 | ug/L |   | 100  | 70 - 130 |
| Alachlor                         | <0.048           |                     | 1.97           | 1.99         |                 | ug/L |   | 101  | 70 - 130 |
| alpha-BHC                        | <0.097           |                     | 1.97           | 1.89         |                 | ug/L |   | 96   | 70 - 130 |
| alpha-Chlordane                  | <0.048           |                     | 1.97           | 1.86         |                 | ug/L |   | 94   | 70 - 130 |
| Anthracene                       | <0.019           | F1                  | 1.97           | 1.13         | F1              | ug/L |   | 58   | 70 - 130 |
| Atrazine                         | <0.048           |                     | 1.97           | 2.13         |                 | ug/L |   | 108  | 70 - 130 |
| Benz(a)anthracene                | <0.048           |                     | 1.97           | 1.88         |                 | ug/L |   | 96   | 70 - 130 |
| Benzo[a]pyrene                   | <0.019           |                     | 1.97           | 1.78         |                 | ug/L |   | 91   | 70 - 130 |
| Benzo[b]fluoranthene             | <0.019           |                     | 1.97           | 2.20         |                 | ug/L |   | 112  | 70 - 130 |
| Benzo[g,h,i]perylene             | <0.048           |                     | 1.97           | 2.04         |                 | ug/L |   | 104  | 70 - 130 |
| Benzo[k]fluoranthene             | <0.019           |                     | 1.97           | 2.09         |                 | ug/L |   | 107  | 70 - 130 |
| beta-BHC                         | <0.097           |                     | 1.97           | 1.97         |                 | ug/L |   | 100  | 70 - 130 |
| Bis(2-ethylhexyl) phthalate      | <0.58            |                     | 1.97           | 1.77         |                 | ug/L |   | 90   | 70 - 130 |
| Bromacil                         | <0.097           |                     | 1.97           | 2.12         |                 | ug/L |   | 108  | 70 - 130 |
| Butachlor                        | <0.048           |                     | 1.97           | 2.19         |                 | ug/L |   | 112  | 70 - 130 |
| Butylbenzylphthalate             | <0.48            |                     | 1.97           | 2.09         |                 | ug/L |   | 106  | 70 - 130 |
| Chlorobenzilate                  | <0.097           |                     | 1.97           | 1.99         |                 | ug/L |   | 101  | 70 - 130 |
| Chloroneb                        | <0.097           |                     | 1.97           | 1.87         |                 | ug/L |   | 95   | 70 - 130 |
| Chlorothalonil (Draconil, Bravo) | <0.097           |                     | 1.97           | 2.08         |                 | ug/L |   | 106  | 70 - 130 |
| Chlorpyrifos                     | <0.048           |                     | 1.97           | 2.13         |                 | ug/L |   | 108  | 70 - 130 |
| Chrysene                         | <0.019           |                     | 1.97           | 1.97         |                 | ug/L |   | 100  | 70 - 130 |
| delta-BHC                        | <0.097           |                     | 1.97           | 1.89         |                 | ug/L |   | 96   | 70 - 130 |
| Di(2-ethylhexyl)adipate          | <0.58            |                     | 1.97           | 1.87         |                 | ug/L |   | 95   | 70 - 130 |
| Dibenz(a,h)anthracene            | <0.048           |                     | 1.97           | 1.96         |                 | ug/L |   | 100  | 70 - 130 |
| Diclorvos (DDVP)                 | <0.048           |                     | 1.97           | 2.04         |                 | ug/L |   | 104  | 70 - 130 |
| Dieldrin                         | 0.030            |                     | 1.97           | 1.89         |                 | ug/L |   | 95   | 70 - 130 |
| Diethylphthalate                 | <0.48            |                     | 1.97           | 2.01         |                 | ug/L |   | 102  | 70 - 130 |
| Dimethylphthalate                | <0.48            |                     | 1.97           | 2.01         |                 | ug/L |   | 102  | 70 - 130 |
| Di-n-butyl phthalate             | <0.97            |                     | 3.93           | 4.07         |                 | ug/L |   | 103  | 70 - 130 |

Eurofins Eaton Analytical Pomona

# QC Sample Results

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

Job ID: 380-137752-1  
SDG: Weekly

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

Lab Sample ID: 380-137743-B-1-A MS

Matrix: Water

Analysis Batch: 138710

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 138422

| Analyte                       | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|-------------------------------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| Di-n-octyl phthalate          | <0.097        |                  | 1.97        | 1.52      |              | ug/L |   | 77   | 70 - 130    |
| Endosulfan I (Alpha)          | <0.097        |                  | 1.97        | 1.89      |              | ug/L |   | 96   | 70 - 130    |
| Endosulfan II (Beta)          | <0.097        |                  | 1.97        | 1.97      |              | ug/L |   | 100  | 70 - 130    |
| Endosulfan sulfate            | <0.097        |                  | 1.97        | 2.00      |              | ug/L |   | 102  | 70 - 130    |
| Endrin                        | <0.0097       |                  | 1.97        | 2.03      |              | ug/L |   | 103  | 70 - 130    |
| Endrin aldehyde               | <0.097        |                  | 1.97        | 1.67      |              | ug/L |   | 85   | 60 - 130    |
| EPTC                          | <0.097        |                  | 1.97        | 2.03      |              | ug/L |   | 103  | 70 - 130    |
| Fluoranthene                  | <0.097        |                  | 1.97        | 2.11      |              | ug/L |   | 107  | 70 - 130    |
| Fluorene                      | <0.048        |                  | 1.97        | 2.00      |              | ug/L |   | 102  | 70 - 130    |
| gamma-Chlordane               | <0.048        |                  | 1.97        | 1.89      |              | ug/L |   | 96   | 70 - 130    |
| Heptachlor                    | <0.0097       |                  | 1.97        | 2.11      |              | ug/L |   | 107  | 70 - 130    |
| Heptachlor epoxide (isomer B) | <0.0097       |                  | 1.97        | 1.93      |              | ug/L |   | 98   | 70 - 130    |
| Hexachlorobenzene             | <0.048        |                  | 1.97        | 1.82      |              | ug/L |   | 92   | 70 - 130    |
| Hexachlorocyclopentadiene     | <0.048        |                  | 1.97        | 1.87      |              | ug/L |   | 95   | 70 - 130    |
| Indeno[1,2,3-cd]pyrene        | <0.048        |                  | 1.97        | 2.04      |              | ug/L |   | 104  | 70 - 130    |
| Isophorone                    | <0.097        |                  | 1.97        | 1.95      |              | ug/L |   | 99   | 70 - 130    |
| Lindane                       | <0.0097       |                  | 1.97        | 1.93      |              | ug/L |   | 98   | 70 - 130    |
| Malathion                     | <0.097        |                  | 1.97        | 2.05      |              | ug/L |   | 104  | 70 - 130    |
| Methoxychlor                  | <0.048        |                  | 1.97        | 2.09      |              | ug/L |   | 106  | 70 - 130    |
| Metolachlor                   | <0.048        |                  | 1.97        | 2.10      |              | ug/L |   | 107  | 70 - 130    |
| Molinate                      | <0.097        |                  | 1.97        | 2.08      |              | ug/L |   | 106  | 70 - 130    |
| Naphthalene                   | <0.097        |                  | 1.97        | 2.02      |              | ug/L |   | 103  | 70 - 130    |
| Parathion                     | <0.097        |                  | 1.97        | 2.19      |              | ug/L |   | 111  | 70 - 130    |
| Pendimethalin (Penoxaline)    | <0.097        |                  | 1.97        | 2.10      |              | ug/L |   | 107  | 70 - 130    |
| Phenanthrene                  | <0.039        |                  | 1.97        | 2.03      |              | ug/L |   | 103  | 70 - 130    |
| Propachlor                    | <0.048        |                  | 1.97        | 2.08      |              | ug/L |   | 106  | 70 - 130    |
| Pyrene                        | <0.048        |                  | 1.97        | 2.11      |              | ug/L |   | 107  | 70 - 130    |
| Simazine                      | <0.048        |                  | 1.97        | 2.14      |              | ug/L |   | 109  | 70 - 130    |
| Terbacil                      | <0.097        |                  | 1.97        | 2.35      |              | ug/L |   | 120  | 70 - 130    |
| Terbutylazine                 | <0.097        |                  | 1.97        | 2.11      |              | ug/L |   | 107  | 70 - 130    |
| Thiobencarb                   | <0.097        |                  | 1.97        | 2.22      |              | ug/L |   | 113  | 70 - 130    |
| trans-Nonachlor               | <0.048        |                  | 1.97        | 1.83      |              | ug/L |   | 93   | 70 - 130    |
| Trifluralin                   | <0.097        |                  | 1.97        | 1.81      |              | ug/L |   | 92   | 70 - 130    |

| Surrogate          | MS %Recovery | MS Qualifier | Limits   |
|--------------------|--------------|--------------|----------|
| 2-Nitro-m-xylene   | 98           |              | 70 - 130 |
| Perylene-d12       | 96           |              | 70 - 130 |
| Triphenylphosphate | 99           |              | 70 - 130 |

Lab Sample ID: 380-137756-B-1-A DU

Matrix: Water

Analysis Batch: 138710

Client Sample ID: Duplicate

Prep Type: Total/NA

Prep Batch: 138422

| Analyte             | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|---------------------|---------------|------------------|-----------|--------------|------|---|-----|-----------|
| 1-Methylnaphthalene | <0.098        |                  | <0.098    |              | ug/L |   | NC  | 20        |
| 2,4'-DDD            | <0.098        |                  | <0.098    |              | ug/L |   | NC  | 20        |
| 2,4'-DDE            | <0.098        |                  | <0.098    |              | ug/L |   | NC  | 20        |
| 2,4'-DDT            | <0.098        |                  | <0.098    |              | ug/L |   | NC  | 20        |

Eurofins Eaton Analytical Pomona

# QC Sample Results

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

Job ID: 380-137752-1  
SDG: Weekly

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

Lab Sample ID: 380-137756-B-1-A DU

Matrix: Water

Analysis Batch: 138710

Client Sample ID: Duplicate

Prep Type: Total/NA

Prep Batch: 138422

| Analyte                          | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|----------------------------------|---------------|------------------|-----------|--------------|------|---|-----|-----------|
| 2,4-Dinitrotoluene               | <0.098        |                  | <0.098    |              | ug/L |   | NC  | 20        |
| 2,6-Dinitrotoluene               | <0.098        |                  | <0.098    |              | ug/L |   | NC  | 20        |
| 2-Methylnaphthalene              | <0.098        |                  | <0.098    |              | ug/L |   | NC  | 20        |
| 4,4'-DDD                         | <0.098        |                  | <0.098    |              | ug/L |   | NC  | 20        |
| 4,4'-DDE                         | <0.098        |                  | <0.098    |              | ug/L |   | NC  | 20        |
| 4,4'-DDT                         | <0.098        |                  | <0.098    |              | ug/L |   | NC  | 20        |
| Acenaphthene                     | <0.098        |                  | <0.098    |              | ug/L |   | NC  | 20        |
| Acenaphthylene                   | <0.098        |                  | <0.098    |              | ug/L |   | NC  | 20        |
| Acetochlor                       | <0.098        |                  | <0.098    |              | ug/L |   | NC  | 20        |
| Alachlor                         | <0.049        |                  | <0.049    |              | ug/L |   | NC  | 20        |
| alpha-BHC                        | <0.098        |                  | <0.098    |              | ug/L |   | NC  | 20        |
| alpha-Chlordane                  | <0.049        |                  | <0.049    |              | ug/L |   | NC  | 20        |
| Anthracene                       | <0.020        |                  | <0.020    |              | ug/L |   | NC  | 20        |
| Atrazine                         | <0.049        |                  | <0.049    |              | ug/L |   | NC  | 20        |
| Benz(a)anthracene                | <0.049        |                  | <0.049    |              | ug/L |   | NC  | 20        |
| Benzo[a]pyrene                   | <0.020        |                  | <0.020    |              | ug/L |   | NC  | 20        |
| Benzo[b]fluoranthene             | <0.020        |                  | <0.020    |              | ug/L |   | NC  | 20        |
| Benzo[g,h,i]perylene             | <0.049        |                  | <0.049    |              | ug/L |   | NC  | 20        |
| Benzo[k]fluoranthene             | <0.020        |                  | <0.020    |              | ug/L |   | NC  | 20        |
| beta-BHC                         | <0.098        |                  | <0.098    |              | ug/L |   | NC  | 20        |
| Bis(2-ethylhexyl) phthalate      | <0.59         |                  | <0.59     |              | ug/L |   | NC  | 20        |
| Bromacil                         | <0.098        |                  | <0.098    |              | ug/L |   | NC  | 20        |
| Butachlor                        | <0.049        |                  | <0.049    |              | ug/L |   | NC  | 20        |
| Butylbenzylphthalate             | <0.49         |                  | <0.49     |              | ug/L |   | NC  | 20        |
| Chlorobenzilate                  | <0.098        |                  | <0.098    |              | ug/L |   | NC  | 20        |
| Chloroneb                        | <0.098        |                  | <0.098    |              | ug/L |   | NC  | 20        |
| Chlorothalonil (Draconil, Bravo) | <0.098        |                  | <0.098    |              | ug/L |   | NC  | 20        |
| Chlorpyrifos                     | <0.049        |                  | <0.049    |              | ug/L |   | NC  | 20        |
| Chrysene                         | <0.020        |                  | <0.020    |              | ug/L |   | NC  | 20        |
| delta-BHC                        | <0.098        |                  | <0.098    |              | ug/L |   | NC  | 20        |
| Di(2-ethylhexyl)adipate          | <0.59         |                  | <0.59     |              | ug/L |   | NC  | 20        |
| Dibenz(a,h)anthracene            | <0.049        |                  | <0.049    |              | ug/L |   | NC  | 20        |
| Diclorvos (DDVP)                 | <0.049        |                  | <0.049    |              | ug/L |   | NC  | 20        |
| Dieldrin                         | <0.0098       |                  | <0.0098   |              | ug/L |   | NC  | 20        |
| Diethylphthalate                 | <0.49         |                  | <0.49     |              | ug/L |   | NC  | 20        |
| Dimethylphthalate                | <0.49         |                  | <0.49     |              | ug/L |   | NC  | 20        |
| Di-n-butyl phthalate             | <0.98         |                  | <0.98     |              | ug/L |   | NC  | 20        |
| Di-n-octyl phthalate             | <0.098        |                  | <0.098    |              | ug/L |   | NC  | 20        |
| Endosulfan I (Alpha)             | <0.098        |                  | <0.098    |              | ug/L |   | NC  | 20        |
| Endosulfan II (Beta)             | <0.098        |                  | <0.098    |              | ug/L |   | NC  | 20        |
| Endosulfan sulfate               | <0.098        |                  | <0.098    |              | ug/L |   | NC  | 20        |
| Endrin                           | <0.0098       |                  | <0.0098   |              | ug/L |   | NC  | 20        |
| Endrin aldehyde                  | <0.098        |                  | <0.098    |              | ug/L |   | NC  | 20        |
| EPTC                             | <0.098        |                  | <0.098    |              | ug/L |   | NC  | 20        |
| Fluoranthene                     | <0.098        |                  | <0.098    |              | ug/L |   | NC  | 20        |
| Fluorene                         | <0.049        |                  | <0.049    |              | ug/L |   | NC  | 20        |
| gamma-Chlordane                  | <0.049        |                  | <0.049    |              | ug/L |   | NC  | 20        |
| Heptachlor                       | <0.0098       |                  | <0.0098   |              | ug/L |   | NC  | 20        |
| Heptachlor epoxide (isomer B)    | <0.0098       |                  | <0.0098   |              | ug/L |   | NC  | 20        |

Eurofins Eaton Analytical Pomona

# QC Sample Results

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

Job ID: 380-137752-1  
SDG: Weekly

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

Lab Sample ID: 380-137756-B-1-A DU

Matrix: Water

Analysis Batch: 138710

Client Sample ID: Duplicate

Prep Type: Total/NA

Prep Batch: 138422

| Analyte                          | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | Limit |
|----------------------------------|---------------|------------------|-----------|--------------|------|---|-----|-------|
| Hexachlorobenzene                | <0.049        |                  | <0.049    |              | ug/L |   | NC  | 20    |
| Hexachlorocyclopentadiene        | <0.049        |                  | <0.049    |              | ug/L |   | NC  | 20    |
| Indeno[1,2,3-cd]pyrene           | <0.049        |                  | <0.049    |              | ug/L |   | NC  | 20    |
| Isophorone                       | <0.098        |                  | <0.098    |              | ug/L |   | NC  | 20    |
| Lindane                          | <0.0098       |                  | <0.0098   |              | ug/L |   | NC  | 20    |
| Malathion                        | <0.098        |                  | <0.098    |              | ug/L |   | NC  | 20    |
| Methoxychlor                     | <0.049        |                  | <0.049    |              | ug/L |   | NC  | 20    |
| Metolachlor                      | <0.049        |                  | <0.049    |              | ug/L |   | NC  | 20    |
| Molinate                         | <0.098        |                  | <0.098    |              | ug/L |   | NC  | 20    |
| Naphthalene                      | <0.098        |                  | <0.098    |              | ug/L |   | NC  | 20    |
| Parathion                        | <0.098        |                  | <0.098    |              | ug/L |   | NC  | 20    |
| Pendimethalin (Penoxaline)       | <0.098        |                  | <0.098    |              | ug/L |   | NC  | 20    |
| Phenanthrene                     | <0.039        |                  | <0.039    |              | ug/L |   | NC  | 20    |
| Propachlor                       | <0.049        |                  | <0.049    |              | ug/L |   | NC  | 20    |
| Pyrene                           | <0.049        |                  | <0.049    |              | ug/L |   | NC  | 20    |
| Simazine                         | <0.049        |                  | <0.049    |              | ug/L |   | NC  | 20    |
| Terbacil                         | <0.098        |                  | <0.098    |              | ug/L |   | NC  | 20    |
| Terbutylazine                    | <0.098        |                  | <0.098    |              | ug/L |   | NC  | 20    |
| Thiobencarb                      | <0.098        |                  | <0.098    |              | ug/L |   | NC  | 20    |
| Total Permethrin (mixed isomers) | <0.20         |                  | <0.20     |              | ug/L |   | NC  | 20    |
| trans-Nonachlor                  | <0.049        |                  | <0.049    |              | ug/L |   | NC  | 20    |
| Trifluralin                      | <0.098        |                  | <0.098    |              | ug/L |   | NC  | 20    |

| Surrogate          | %Recovery | DU Qualifier | Limits   |
|--------------------|-----------|--------------|----------|
| 2-Nitro-m-xylene   | 97        |              | 70 - 130 |
| Perylene-d12       | 90        |              | 70 - 130 |
| Triphenylphosphate | 95        |              | 70 - 130 |

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

Lab Sample ID: MB 570-539018/1-A

Matrix: Water

Analysis Batch: 540452

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 539018

| Analyte               | MB Result | MB Qualifier | RL   | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------|-----------|--------------|------|------|---|----------------|----------------|---------|
| 1-Methylnaphthalene   | <0.20     |              | 0.20 | ug/L |   | 03/01/25 10:00 | 03/03/25 15:45 | 1       |
| 2-Methylnaphthalene   | <0.20     |              | 0.20 | ug/L |   | 03/01/25 10:00 | 03/03/25 15:45 | 1       |
| Acenaphthene          | <0.20     |              | 0.20 | ug/L |   | 03/01/25 10:00 | 03/03/25 15:45 | 1       |
| Acenaphthylene        | <0.20     |              | 0.20 | ug/L |   | 03/01/25 10:00 | 03/03/25 15:45 | 1       |
| Anthracene            | <0.20     |              | 0.20 | ug/L |   | 03/01/25 10:00 | 03/03/25 15:45 | 1       |
| Benzo[a]anthracene    | <0.20     |              | 0.20 | ug/L |   | 03/01/25 10:00 | 03/03/25 15:45 | 1       |
| Benzo[a]pyrene        | <0.20     |              | 0.20 | ug/L |   | 03/01/25 10:00 | 03/03/25 15:45 | 1       |
| Benzo[b]fluoranthene  | <0.20     |              | 0.20 | ug/L |   | 03/01/25 10:00 | 03/03/25 15:45 | 1       |
| Benzo[g,h,i]perylene  | <0.20     |              | 0.20 | ug/L |   | 03/01/25 10:00 | 03/03/25 15:45 | 1       |
| Benzo[k]fluoranthene  | <0.20     |              | 0.20 | ug/L |   | 03/01/25 10:00 | 03/03/25 15:45 | 1       |
| Chrysene              | <0.20     |              | 0.20 | ug/L |   | 03/01/25 10:00 | 03/03/25 15:45 | 1       |
| Dibenz(a,h)anthracene | <0.20     |              | 0.20 | ug/L |   | 03/01/25 10:00 | 03/03/25 15:45 | 1       |
| Fluoranthene          | <0.20     |              | 0.20 | ug/L |   | 03/01/25 10:00 | 03/03/25 15:45 | 1       |
| Fluorene              | <0.20     |              | 0.20 | ug/L |   | 03/01/25 10:00 | 03/03/25 15:45 | 1       |

Eurofins Eaton Analytical Pomona

# QC Sample Results

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

Job ID: 380-137752-1  
SDG: Weekly

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

Lab Sample ID: MB 570-539018/1-A

Matrix: Water

Analysis Batch: 540452

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 539018

| Analyte                | MB Result | MB Qualifier | RL   | Unit | D | Prepared       | Analyzed       | Dil Fac |
|------------------------|-----------|--------------|------|------|---|----------------|----------------|---------|
| Indeno[1,2,3-cd]pyrene | <0.20     |              | 0.20 | ug/L |   | 03/01/25 10:00 | 03/03/25 15:45 | 1       |
| Naphthalene            | <0.20     |              | 0.20 | ug/L |   | 03/01/25 10:00 | 03/03/25 15:45 | 1       |
| Phenanthrene           | <0.20     |              | 0.20 | ug/L |   | 03/01/25 10:00 | 03/03/25 15:45 | 1       |
| Pyrene                 | <0.20     |              | 0.20 | ug/L |   | 03/01/25 10:00 | 03/03/25 15:45 | 1       |

| Surrogate                   | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 2,4,6-Tribromophenol (Surr) | 72           |              | 28 - 127 | 03/01/25 10:00 | 03/03/25 15:45 | 1       |
| 2-Fluorobiphenyl (Surr)     | 73           |              | 31 - 120 | 03/01/25 10:00 | 03/03/25 15:45 | 1       |
| 2-Fluorophenol (Surr)       | 41           |              | 17 - 120 | 03/01/25 10:00 | 03/03/25 15:45 | 1       |
| Nitrobenzene-d5 (Surr)      | 77           |              | 27 - 120 | 03/01/25 10:00 | 03/03/25 15:45 | 1       |
| Phenol-d6 (Surr)            | 27           |              | 10 - 120 | 03/01/25 10:00 | 03/03/25 15:45 | 1       |
| p-Terphenyl-d14 (Surr)      | 89           |              | 45 - 120 | 03/01/25 10:00 | 03/03/25 15:45 | 1       |

Lab Sample ID: LCS 570-539018/2-A

Matrix: Water

Analysis Batch: 540452

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 539018

| Analyte                | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|------------------------|-------------|------------|---------------|------|---|------|-------------|
| 1-Methylnaphthalene    | 20.0        | 13.6       |               | ug/L |   | 68   | 47 - 120    |
| 2-Methylnaphthalene    | 20.0        | 15.4       |               | ug/L |   | 77   | 43 - 120    |
| Acenaphthene           | 20.0        | 15.6       |               | ug/L |   | 78   | 60 - 132    |
| Acenaphthylene         | 20.0        | 14.4       |               | ug/L |   | 72   | 54 - 126    |
| Anthracene             | 20.0        | 16.1       |               | ug/L |   | 81   | 43 - 120    |
| Benzo[a]anthracene     | 20.0        | 16.6       |               | ug/L |   | 83   | 42 - 133    |
| Benzo[a]pyrene         | 20.0        | 16.6       |               | ug/L |   | 83   | 32 - 148    |
| Benzo[b]fluoranthene   | 20.0        | 16.7       |               | ug/L |   | 84   | 42 - 140    |
| Benzo[g,h,i]perylene   | 20.0        | 15.0       |               | ug/L |   | 75   | 1 - 195     |
| Benzo[k]fluoranthene   | 20.0        | 16.4       |               | ug/L |   | 82   | 25 - 146    |
| Chrysene               | 20.0        | 16.0       |               | ug/L |   | 80   | 44 - 140    |
| Dibenz(a,h)anthracene  | 20.0        | 16.6       |               | ug/L |   | 83   | 1 - 200     |
| Fluoranthene           | 20.0        | 16.9       |               | ug/L |   | 85   | 43 - 121    |
| Fluorene               | 20.0        | 16.3       |               | ug/L |   | 82   | 70 - 120    |
| Indeno[1,2,3-cd]pyrene | 20.0        | 17.0       |               | ug/L |   | 85   | 1 - 151     |
| Naphthalene            | 20.0        | 13.1       |               | ug/L |   | 65   | 36 - 120    |
| Phenanthrene           | 20.0        | 15.6       |               | ug/L |   | 78   | 65 - 120    |
| Pyrene                 | 20.0        | 16.7       |               | ug/L |   | 83   | 70 - 120    |

| Surrogate                   | LCS %Recovery | LCS Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 2,4,6-Tribromophenol (Surr) | 76            |               | 28 - 127 |
| 2-Fluorobiphenyl (Surr)     | 74            |               | 31 - 120 |
| 2-Fluorophenol (Surr)       | 50            |               | 17 - 120 |
| Nitrobenzene-d5 (Surr)      | 68            |               | 27 - 120 |
| Phenol-d6 (Surr)            | 35            |               | 10 - 120 |
| p-Terphenyl-d14 (Surr)      | 88            |               | 45 - 120 |

Eurofins Eaton Analytical Pomona

# QC Sample Results

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

Job ID: 380-137752-1  
SDG: Weekly

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

Lab Sample ID: LCSD 570-539018/3-A

Matrix: Water

Analysis Batch: 540452

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 539018

| Analyte                | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|------------------------|-------------|-------------|----------------|------|---|------|-------------|-----|-----------|
| 1-Methylnaphthalene    | 20.0        | 14.0        |                | ug/L |   | 70   | 47 - 120    | 3   | 20        |
| 2-Methylnaphthalene    | 20.0        | 15.7        |                | ug/L |   | 79   | 43 - 120    | 2   | 20        |
| Acenaphthene           | 20.0        | 15.0        |                | ug/L |   | 75   | 60 - 132    | 4   | 29        |
| Acenaphthylene         | 20.0        | 14.6        |                | ug/L |   | 73   | 54 - 126    | 1   | 45        |
| Anthracene             | 20.0        | 16.2        |                | ug/L |   | 81   | 43 - 120    | 1   | 40        |
| Benzo[a]anthracene     | 20.0        | 16.5        |                | ug/L |   | 82   | 42 - 133    | 1   | 32        |
| Benzo[a]pyrene         | 20.0        | 16.4        |                | ug/L |   | 82   | 32 - 148    | 1   | 43        |
| Benzo[b]fluoranthene   | 20.0        | 16.9        |                | ug/L |   | 84   | 42 - 140    | 1   | 43        |
| Benzo[g,h,i]perylene   | 20.0        | 14.8        |                | ug/L |   | 74   | 1 - 195     | 1   | 61        |
| Benzo[k]fluoranthene   | 20.0        | 16.2        |                | ug/L |   | 81   | 25 - 146    | 1   | 38        |
| Chrysene               | 20.0        | 15.9        |                | ug/L |   | 79   | 44 - 140    | 1   | 53        |
| Dibenz(a,h)anthracene  | 20.0        | 16.6        |                | ug/L |   | 83   | 1 - 200     | 0   | 75        |
| Fluoranthene           | 20.0        | 16.7        |                | ug/L |   | 84   | 43 - 121    | 1   | 40        |
| Fluorene               | 20.0        | 16.1        |                | ug/L |   | 81   | 70 - 120    | 1   | 23        |
| Indeno[1,2,3-cd]pyrene | 20.0        | 16.5        |                | ug/L |   | 83   | 1 - 151     | 3   | 60        |
| Naphthalene            | 20.0        | 13.8        |                | ug/L |   | 69   | 36 - 120    | 6   | 39        |
| Phenanthrene           | 20.0        | 15.8        |                | ug/L |   | 79   | 65 - 120    | 2   | 24        |
| Pyrene                 | 20.0        | 16.8        |                | ug/L |   | 84   | 70 - 120    | 1   | 30        |

| Surrogate                   | LCSD %Recovery | LCSD Qualifier | Limits   |
|-----------------------------|----------------|----------------|----------|
| 2,4,6-Tribromophenol (Surr) | 75             |                | 28 - 127 |
| 2-Fluorobiphenyl (Surr)     | 74             |                | 31 - 120 |
| 2-Fluorophenol (Surr)       | 56             |                | 17 - 120 |
| Nitrobenzene-d5 (Surr)      | 69             |                | 27 - 120 |
| Phenol-d6 (Surr)            | 37             |                | 10 - 120 |
| p-Terphenyl-d14 (Surr)      | 85             |                | 45 - 120 |

Lab Sample ID: 380-137752-1 MS

Matrix: Drinking Water

Analysis Batch: 540452

Client Sample ID: HALAWA WELLS UNITS 1 & 2 (331-206-TP065)

Prep Type: Total/NA

Prep Batch: 539018

| Analyte                | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|------------------------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| 1-Methylnaphthalene    | <0.19         |                  | 19.3        | 14.0      |              | ug/L |   | 72   | 36 - 120    |
| 2-Methylnaphthalene    | <0.19         |                  | 19.3        | 15.8      |              | ug/L |   | 82   | 32 - 124    |
| Acenaphthene           | <0.19         |                  | 19.3        | 15.1      |              | ug/L |   | 78   | 47 - 145    |
| Acenaphthylene         | <0.19         |                  | 19.3        | 14.4      |              | ug/L |   | 75   | 33 - 145    |
| Anthracene             | <0.19         |                  | 19.3        | 16.1      |              | ug/L |   | 83   | 27 - 133    |
| Benzo[a]anthracene     | <0.19         |                  | 19.3        | 16.1      |              | ug/L |   | 83   | 33 - 143    |
| Benzo[a]pyrene         | <0.19         |                  | 19.3        | 15.3      |              | ug/L |   | 79   | 17 - 163    |
| Benzo[b]fluoranthene   | <0.19         |                  | 19.3        | 16.0      |              | ug/L |   | 83   | 24 - 159    |
| Benzo[g,h,i]perylene   | <0.19         |                  | 19.3        | 14.3      |              | ug/L |   | 74   | 1 - 219     |
| Benzo[k]fluoranthene   | <0.19         |                  | 19.3        | 15.2      |              | ug/L |   | 79   | 11 - 162    |
| Chrysene               | <0.19         |                  | 19.3        | 15.6      |              | ug/L |   | 81   | 17 - 168    |
| Dibenz(a,h)anthracene  | <0.19         |                  | 19.3        | 16.3      |              | ug/L |   | 84   | 1 - 227     |
| Fluoranthene           | <0.19         |                  | 19.3        | 16.0      |              | ug/L |   | 83   | 26 - 137    |
| Fluorene               | <0.19         |                  | 19.3        | 15.7      |              | ug/L |   | 81   | 59 - 121    |
| Indeno[1,2,3-cd]pyrene | <0.19         |                  | 19.3        | 16.4      |              | ug/L |   | 85   | 1 - 171     |
| Naphthalene            | <0.19         |                  | 19.3        | 13.4      |              | ug/L |   | 70   | 21 - 133    |

Eurofins Eaton Analytical Pomona

# QC Sample Results

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

Job ID: 380-137752-1  
SDG: Weekly

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

Lab Sample ID: 380-137752-1 MS

Client Sample ID: HALAWA WELLS UNITS 1 & 2 (331-206-TP065)

Matrix: Drinking Water

Prep Type: Total/NA

Analysis Batch: 540452

Prep Batch: 539018

| Analyte      | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|--------------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| Phenanthrene | <0.19         |                  | 19.3        | 15.4      |              | ug/L |   | 80   | 54 - 120    |
| Pyrene       | <0.19         |                  | 19.3        | 16.4      |              | ug/L |   | 85   | 52 - 120    |

| Surrogate                   | MS %Recovery | MS Qualifier | Limits   |
|-----------------------------|--------------|--------------|----------|
| 2,4,6-Tribromophenol (Surr) | 77           |              | 28 - 127 |
| 2-Fluorobiphenyl (Surr)     | 75           |              | 31 - 120 |
| 2-Fluorophenol (Surr)       | 51           |              | 17 - 120 |
| Nitrobenzene-d5 (Surr)      | 69           |              | 27 - 120 |
| Phenol-d6 (Surr)            | 34           |              | 10 - 120 |
| p-Terphenyl-d14 (Surr)      | 87           |              | 45 - 120 |

Lab Sample ID: 380-137752-1 MSD

Client Sample ID: HALAWA WELLS UNITS 1 & 2 (331-206-TP065)

Matrix: Drinking Water

Prep Type: Total/NA

Analysis Batch: 540452

Prep Batch: 539018

| Analyte                | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|------------------------|---------------|------------------|-------------|------------|---------------|------|---|------|-------------|-----|-----------|
| 1-Methylnaphthalene    | <0.19         |                  | 19.2        | 14.6       |               | ug/L |   | 76   | 36 - 120    | 4   | 30        |
| 2-Methylnaphthalene    | <0.19         |                  | 19.2        | 16.4       |               | ug/L |   | 85   | 32 - 124    | 3   | 30        |
| Acenaphthene           | <0.19         |                  | 19.2        | 15.5       |               | ug/L |   | 81   | 47 - 145    | 3   | 48        |
| Acenaphthylene         | <0.19         |                  | 19.2        | 14.6       |               | ug/L |   | 76   | 33 - 145    | 1   | 74        |
| Anthracene             | <0.19         |                  | 19.2        | 15.9       |               | ug/L |   | 83   | 27 - 133    | 1   | 66        |
| Benzo[a]anthracene     | <0.19         |                  | 19.2        | 15.9       |               | ug/L |   | 83   | 33 - 143    | 1   | 53        |
| Benzo[a]pyrene         | <0.19         |                  | 19.2        | 15.8       |               | ug/L |   | 82   | 17 - 163    | 3   | 72        |
| Benzo[b]fluoranthene   | <0.19         |                  | 19.2        | 15.9       |               | ug/L |   | 83   | 24 - 159    | 1   | 71        |
| Benzo[g,h,i]perylene   | <0.19         |                  | 19.2        | 14.6       |               | ug/L |   | 76   | 1 - 219     | 2   | 97        |
| Benzo[k]fluoranthene   | <0.19         |                  | 19.2        | 16.2       |               | ug/L |   | 84   | 11 - 162    | 7   | 63        |
| Chrysene               | <0.19         |                  | 19.2        | 15.6       |               | ug/L |   | 81   | 17 - 168    | 0   | 87        |
| Dibenz(a,h)anthracene  | <0.19         |                  | 19.2        | 16.1       |               | ug/L |   | 84   | 1 - 227     | 1   | 126       |
| Fluoranthene           | <0.19         |                  | 19.2        | 16.3       |               | ug/L |   | 85   | 26 - 137    | 2   | 66        |
| Fluorene               | <0.19         |                  | 19.2        | 16.2       |               | ug/L |   | 84   | 59 - 121    | 3   | 38        |
| Indeno[1,2,3-cd]pyrene | <0.19         |                  | 19.2        | 16.3       |               | ug/L |   | 85   | 1 - 171     | 0   | 99        |
| Naphthalene            | <0.19         |                  | 19.2        | 13.8       |               | ug/L |   | 72   | 21 - 133    | 3   | 65        |
| Phenanthrene           | <0.19         |                  | 19.2        | 15.6       |               | ug/L |   | 81   | 54 - 120    | 1   | 39        |
| Pyrene                 | <0.19         |                  | 19.2        | 16.4       |               | ug/L |   | 85   | 52 - 120    | 0   | 49        |

| Surrogate                   | MSD %Recovery | MSD Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 2,4,6-Tribromophenol (Surr) | 77            |               | 28 - 127 |
| 2-Fluorobiphenyl (Surr)     | 77            |               | 31 - 120 |
| 2-Fluorophenol (Surr)       | 51            |               | 17 - 120 |
| Nitrobenzene-d5 (Surr)      | 72            |               | 27 - 120 |
| Phenol-d6 (Surr)            | 34            |               | 10 - 120 |
| p-Terphenyl-d14 (Surr)      | 87            |               | 45 - 120 |



# QC Sample Results

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

Job ID: 380-137752-1  
SDG: Weekly

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

Lab Sample ID: MB 570-541268/6

Matrix: Water

Analysis Batch: 541268

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte                     | MB Result    | MB Qualifier | RL       | Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------------------------|--------------|--------------|----------|------|---|----------|----------------|---------|
| GRO (C6-C10)                | <10          |              | 10       | ug/L |   |          | 03/05/25 12:21 | 1       |
| Surrogate                   | MB %Recovery | MB Qualifier | Limits   |      |   | Prepared | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 81           |              | 38 - 134 |      |   |          | 03/05/25 12:21 | 1       |

Lab Sample ID: LCS 570-541268/4

Matrix: Water

Analysis Batch: 541268

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte                          | Spike Added   | LCS Result    | LCS Qualifier | Unit | D | %Rec | %Rec Limits |  |
|----------------------------------|---------------|---------------|---------------|------|---|------|-------------|--|
| Gasoline Range Organics (C4-C13) | 400           | 436           |               | ug/L |   | 109  | 78 - 120    |  |
| Surrogate                        | LCS %Recovery | LCS Qualifier | Limits        |      |   |      |             |  |
| 4-Bromofluorobenzene (Surr)      | 94            |               | 38 - 134      |      |   |      |             |  |

Lab Sample ID: LCSD 570-541268/7

Matrix: Water

Analysis Batch: 541268

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

| Analyte                          | Spike Added    | LCSD Result    | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|----------------------------------|----------------|----------------|----------------|------|---|------|-------------|-----|-----------|
| Gasoline Range Organics (C4-C13) | 400            | 438            |                | ug/L |   | 109  | 78 - 120    | 1   | 10        |
| Surrogate                        | LCSD %Recovery | LCSD Qualifier | Limits         |      |   |      |             |     |           |
| 4-Bromofluorobenzene (Surr)      | 97             |                | 38 - 134       |      |   |      |             |     |           |

Lab Sample ID: MRL 570-541268/3

Matrix: Water

Analysis Batch: 541268

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte                          | Spike Added   | MRL Result    | MRL Qualifier | Unit | D | %Rec | %Rec Limits |  |
|----------------------------------|---------------|---------------|---------------|------|---|------|-------------|--|
| Gasoline Range Organics (C4-C13) | 10.0          | 12.8          |               | ug/L |   | 128  | 50 - 150    |  |
| Surrogate                        | MRL %Recovery | MRL Qualifier | Limits        |      |   |      |             |  |
| 4-Bromofluorobenzene (Surr)      | 79            |               | 38 - 134      |      |   |      |             |  |

Lab Sample ID: 380-137752-1 MS

Matrix: Drinking Water

Analysis Batch: 541268

Client Sample ID: HALAWA WELLS UNITS 1 & 2 (331-206-TP065)

Prep Type: Total/NA

| Analyte                          | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |  |
|----------------------------------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|--|
| Gasoline Range Organics (C4-C13) | <10           |                  | 400         | 439       |              | ug/L |   | 110  | 68 - 122    |  |
| Surrogate                        | MS %Recovery  | MS Qualifier     | Limits      |           |              |      |   |      |             |  |
| 4-Bromofluorobenzene (Surr)      | 98            |                  | 38 - 134    |           |              |      |   |      |             |  |

Eurofins Eaton Analytical Pomona

# QC Sample Results

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

Job ID: 380-137752-1  
SDG: Weekly

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

Lab Sample ID: 380-137752-1 MSD

Client Sample ID: HALAWA WELLS UNITS 1 & 2 (331-206-TP065)

Matrix: Drinking Water

Prep Type: Total/NA

Analysis Batch: 541268

| Analyte                          | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|----------------------------------|---------------|------------------|-------------|------------|---------------|------|---|------|-------------|-----|-----------|
| Gasoline Range Organics (C4-C13) | <10           |                  | 400         | 410        |               | ug/L |   | 103  | 68 - 122    | 7   | 18        |
| Surrogate                        | %Recovery     | MSD Qualifier    | MSD Limits  |            |               |      |   |      |             |     |           |
| 4-Bromofluorobenzene (Surr)      | 98            |                  | 38 - 134    |            |               |      |   |      |             |     |           |

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

Lab Sample ID: MB 570-539581/1-A

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 543020

Prep Batch: 539581

| Analyte                            | MB Result | MB Qualifier | RL        | Unit           | D              | Prepared       | Analyzed       | Dil Fac |
|------------------------------------|-----------|--------------|-----------|----------------|----------------|----------------|----------------|---------|
| Diesel Range Organics (C10-C24)    | <25       |              | 25        | ug/L           |                | 02/28/25 12:00 | 03/10/25 14:09 | 1       |
| Motor Oil Range Organics [C24-C36] | <25       |              | 25        | ug/L           |                | 02/28/25 12:00 | 03/10/25 14:09 | 1       |
| C8-C18                             | <25       |              | 25        | ug/L           |                | 02/28/25 12:00 | 03/10/25 14:09 | 1       |
| Surrogate                          | %Recovery | MB Qualifier | MB Limits | Prepared       | Analyzed       | Dil Fac        |                |         |
| n-Octacosane (Surr)                | 104       |              | 60 - 130  | 02/28/25 12:00 | 03/10/25 14:09 | 1              |                |         |

Lab Sample ID: LCS 570-539581/2-A

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 543020

Prep Batch: 539581

| Analyte             | Spike Added | LCS Result    | LCS Qualifier | Unit | D | %Rec | %Rec Limits | RPD |
|---------------------|-------------|---------------|---------------|------|---|------|-------------|-----|
| C10-C28             | 1600        | 1570          |               | ug/L |   | 98   | 56 - 127    |     |
| Surrogate           | %Recovery   | LCS Qualifier | LCS Limits    |      |   |      |             |     |
| n-Octacosane (Surr) | 121         |               | 60 - 130      |      |   |      |             |     |

Lab Sample ID: LCSD 570-539581/3-A

Client Sample ID: Lab Control Sample Dup

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 543020

Prep Batch: 539581

| Analyte             | Spike Added | LCSD Result    | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD |
|---------------------|-------------|----------------|----------------|------|---|------|-------------|-----|
| C10-C28             | 1600        | 1360           |                | ug/L |   | 85   | 56 - 127    | 14  |
| Surrogate           | %Recovery   | LCSD Qualifier | LCSD Limits    |      |   |      |             |     |
| n-Octacosane (Surr) | 104         |                | 60 - 130       |      |   |      |             |     |

Lab Sample ID: MRL 570-539581/4-A

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 543020

Prep Batch: 539581

| Analyte | Spike Added | MRL Result | MRL Qualifier | Unit | D | %Rec | %Rec Limits | RPD |
|---------|-------------|------------|---------------|------|---|------|-------------|-----|
| C10-C28 | 0.0200      | <0.020     |               | mg/L |   | 96   | 50 - 150    |     |

Eurofins Eaton Analytical Pomona

# QC Sample Results

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

Job ID: 380-137752-1  
SDG: Weekly

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

Lab Sample ID: MRL 570-539581/4-A

Matrix: Water

Analysis Batch: 543020

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 539581

|                     | MRL       | MRL       |          |
|---------------------|-----------|-----------|----------|
| Surrogate           | %Recovery | Qualifier | Limits   |
| n-Octacosane (Surr) | 101       |           | 60 - 130 |

Lab Sample ID: 380-137752-1 MS

Matrix: Drinking Water

Analysis Batch: 543020

Client Sample ID: HALAWA WELLS UNITS 1 & 2 (331-206-TP065)

Prep Type: Total/NA

Prep Batch: 539581

|         | Sample | Sample    | Spike | MS     | MS        |      |   |      |          |  |
|---------|--------|-----------|-------|--------|-----------|------|---|------|----------|--|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits   |  |
| C10-C28 | <26    |           | 1640  | 1470   |           | ug/L |   | 90   | 70 - 130 |  |

|                     | MS        | MS        |          |
|---------------------|-----------|-----------|----------|
| Surrogate           | %Recovery | Qualifier | Limits   |
| n-Octacosane (Surr) | 107       |           | 60 - 130 |

Lab Sample ID: 380-137752-1 MSD

Matrix: Drinking Water

Analysis Batch: 543020

Client Sample ID: HALAWA WELLS UNITS 1 & 2 (331-206-TP065)

Prep Type: Total/NA

Prep Batch: 539581

|         | Sample | Sample    | Spike | MSD    | MSD       |      |   |      |          |     |     |       |
|---------|--------|-----------|-------|--------|-----------|------|---|------|----------|-----|-----|-------|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits   | RPD | RPD | Limit |
| C10-C28 | <26    |           | 1660  | 1500   |           | ug/L |   | 90   | 70 - 130 | 2   |     | 20    |

|                     | MSD       | MSD       |          |
|---------------------|-----------|-----------|----------|
| Surrogate           | %Recovery | Qualifier | Limits   |
| n-Octacosane (Surr) | 110       |           | 60 - 130 |

# QC Association Summary

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

Job ID: 380-137752-1  
SDG: Weekly

## GC/MS Semi VOA

### Prep Batch: 138422

| Lab Sample ID        | Client Sample ID                          | Prep Type | Matrix         | Method | Prep Batch |
|----------------------|-------------------------------------------|-----------|----------------|--------|------------|
| 380-137752-1         | HALAWA WELLS UNITS 1 & 2 (331-206-TP065)  | Total/NA  | Drinking Water | 525.2  |            |
| 380-137752-2         | AIEA WELLS PUMPS 1&2 (260) (331-203-TP40C | Total/NA  | Drinking Water | 525.2  |            |
| MB 380-138422/21-A   | Method Blank                              | Total/NA  | Water          | 525.2  |            |
| LCS 380-138422/23-A  | Lab Control Sample                        | Total/NA  | Water          | 525.2  |            |
| LCSD 380-138422/24-A | Lab Control Sample Dup                    | Total/NA  | Water          | 525.2  |            |
| MRL 380-138422/22-A  | Lab Control Sample                        | Total/NA  | Water          | 525.2  |            |
| 380-137743-B-1-A MS  | Matrix Spike                              | Total/NA  | Water          | 525.2  |            |
| 380-137756-B-1-A DU  | Duplicate                                 | Total/NA  | Water          | 525.2  |            |

### Analysis Batch: 138710

| Lab Sample ID        | Client Sample ID                          | Prep Type | Matrix         | Method | Prep Batch |
|----------------------|-------------------------------------------|-----------|----------------|--------|------------|
| 380-137752-1         | HALAWA WELLS UNITS 1 & 2 (331-206-TP065)  | Total/NA  | Drinking Water | 525.2  | 138422     |
| 380-137752-2         | AIEA WELLS PUMPS 1&2 (260) (331-203-TP40C | Total/NA  | Drinking Water | 525.2  | 138422     |
| MB 380-138422/21-A   | Method Blank                              | Total/NA  | Water          | 525.2  | 138422     |
| LCS 380-138422/23-A  | Lab Control Sample                        | Total/NA  | Water          | 525.2  | 138422     |
| LCSD 380-138422/24-A | Lab Control Sample Dup                    | Total/NA  | Water          | 525.2  | 138422     |
| MRL 380-138422/22-A  | Lab Control Sample                        | Total/NA  | Water          | 525.2  | 138422     |
| 380-137743-B-1-A MS  | Matrix Spike                              | Total/NA  | Water          | 525.2  | 138422     |
| 380-137756-B-1-A DU  | Duplicate                                 | Total/NA  | Water          | 525.2  | 138422     |

### Prep Batch: 539018

| Lab Sample ID       | Client Sample ID                          | Prep Type | Matrix         | Method | Prep Batch |
|---------------------|-------------------------------------------|-----------|----------------|--------|------------|
| 380-137752-1        | HALAWA WELLS UNITS 1 & 2 (331-206-TP065)  | Total/NA  | Drinking Water | 625.1  |            |
| 380-137752-2        | AIEA WELLS PUMPS 1&2 (260) (331-203-TP40C | Total/NA  | Drinking Water | 625.1  |            |
| MB 570-539018/1-A   | Method Blank                              | Total/NA  | Water          | 625.1  |            |
| LCS 570-539018/2-A  | Lab Control Sample                        | Total/NA  | Water          | 625.1  |            |
| LCSD 570-539018/3-A | Lab Control Sample Dup                    | Total/NA  | Water          | 625.1  |            |
| 380-137752-1 MS     | HALAWA WELLS UNITS 1 & 2 (331-206-TP065)  | Total/NA  | Drinking Water | 625.1  |            |
| 380-137752-1 MSD    | HALAWA WELLS UNITS 1 & 2 (331-206-TP065)  | Total/NA  | Drinking Water | 625.1  |            |

### Analysis Batch: 540452

| Lab Sample ID       | Client Sample ID                          | Prep Type | Matrix         | Method    | Prep Batch |
|---------------------|-------------------------------------------|-----------|----------------|-----------|------------|
| 380-137752-1        | HALAWA WELLS UNITS 1 & 2 (331-206-TP065)  | Total/NA  | Drinking Water | 625.1 SIM | 539018     |
| 380-137752-2        | AIEA WELLS PUMPS 1&2 (260) (331-203-TP40C | Total/NA  | Drinking Water | 625.1 SIM | 539018     |
| MB 570-539018/1-A   | Method Blank                              | Total/NA  | Water          | 625.1 SIM | 539018     |
| LCS 570-539018/2-A  | Lab Control Sample                        | Total/NA  | Water          | 625.1 SIM | 539018     |
| LCSD 570-539018/3-A | Lab Control Sample Dup                    | Total/NA  | Water          | 625.1 SIM | 539018     |
| 380-137752-1 MS     | HALAWA WELLS UNITS 1 & 2 (331-206-TP065)  | Total/NA  | Drinking Water | 625.1 SIM | 539018     |
| 380-137752-1 MSD    | HALAWA WELLS UNITS 1 & 2 (331-206-TP065)  | Total/NA  | Drinking Water | 625.1 SIM | 539018     |

### Analysis Batch: 543810

| Lab Sample ID | Client Sample ID                          | Prep Type | Matrix         | Method | Prep Batch |
|---------------|-------------------------------------------|-----------|----------------|--------|------------|
| 380-137752-1  | HALAWA WELLS UNITS 1 & 2 (331-206-TP065)  | Total/NA  | Drinking Water | 625.1  | 539018     |
| 380-137752-2  | AIEA WELLS PUMPS 1&2 (260) (331-203-TP40C | Total/NA  | Drinking Water | 625.1  | 539018     |

## GC VOA

### Analysis Batch: 541268

| Lab Sample ID | Client Sample ID                          | Prep Type | Matrix         | Method       | Prep Batch |
|---------------|-------------------------------------------|-----------|----------------|--------------|------------|
| 380-137752-1  | HALAWA WELLS UNITS 1 & 2 (331-206-TP065)  | Total/NA  | Drinking Water | 8015B GRO LL |            |
| 380-137752-2  | AIEA WELLS PUMPS 1&2 (260) (331-203-TP40C | Total/NA  | Drinking Water | 8015B GRO LL |            |

Eurofins Eaton Analytical Pomona

# QC Association Summary

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

Job ID: 380-137752-1  
SDG: Weekly

## GC VOA (Continued)

### Analysis Batch: 541268 (Continued)

| Lab Sample ID     | Client Sample ID                           | Prep Type | Matrix         | Method       | Prep Batch |
|-------------------|--------------------------------------------|-----------|----------------|--------------|------------|
| 380-137752-3      | TB: HALAWA WELLS UNITS 1&2 (331-206-TP06   | Total/NA  | Water          | 8015B GRO LL |            |
| 380-137752-4      | TB: AIEA WELLS PUMPS 1&2 (260) (331-203-TF | Total/NA  | Water          | 8015B GRO LL |            |
| MB 570-541268/6   | Method Blank                               | Total/NA  | Water          | 8015B GRO LL |            |
| LCS 570-541268/4  | Lab Control Sample                         | Total/NA  | Water          | 8015B GRO LL |            |
| LCSD 570-541268/7 | Lab Control Sample Dup                     | Total/NA  | Water          | 8015B GRO LL |            |
| MRL 570-541268/3  | Lab Control Sample                         | Total/NA  | Water          | 8015B GRO LL |            |
| 380-137752-1 MS   | HALAWA WELLS UNITS 1 & 2 (331-206-TP065)   | Total/NA  | Drinking Water | 8015B GRO LL |            |
| 380-137752-1 MSD  | HALAWA WELLS UNITS 1 & 2 (331-206-TP065)   | Total/NA  | Drinking Water | 8015B GRO LL |            |

## GC Semi VOA

### Prep Batch: 539581

| Lab Sample ID       | Client Sample ID                          | Prep Type | Matrix         | Method | Prep Batch |
|---------------------|-------------------------------------------|-----------|----------------|--------|------------|
| 380-137752-1        | HALAWA WELLS UNITS 1 & 2 (331-206-TP065)  | Total/NA  | Drinking Water | 3510C  |            |
| 380-137752-2        | AIEA WELLS PUMPS 1&2 (260) (331-203-TP40C | Total/NA  | Drinking Water | 3510C  |            |
| MB 570-539581/1-A   | Method Blank                              | Total/NA  | Water          | 3510C  |            |
| LCS 570-539581/2-A  | Lab Control Sample                        | Total/NA  | Water          | 3510C  |            |
| LCSD 570-539581/3-A | Lab Control Sample Dup                    | Total/NA  | Water          | 3510C  |            |
| MRL 570-539581/4-A  | Lab Control Sample                        | Total/NA  | Water          | 3510C  |            |
| 380-137752-1 MS     | HALAWA WELLS UNITS 1 & 2 (331-206-TP065)  | Total/NA  | Drinking Water | 3510C  |            |
| 380-137752-1 MSD    | HALAWA WELLS UNITS 1 & 2 (331-206-TP065)  | Total/NA  | Drinking Water | 3510C  |            |

### Analysis Batch: 543020

| Lab Sample ID       | Client Sample ID                          | Prep Type | Matrix         | Method | Prep Batch |
|---------------------|-------------------------------------------|-----------|----------------|--------|------------|
| 380-137752-1        | HALAWA WELLS UNITS 1 & 2 (331-206-TP065)  | Total/NA  | Drinking Water | 8015B  | 539581     |
| 380-137752-2        | AIEA WELLS PUMPS 1&2 (260) (331-203-TP40C | Total/NA  | Drinking Water | 8015B  | 539581     |
| MB 570-539581/1-A   | Method Blank                              | Total/NA  | Water          | 8015B  | 539581     |
| LCS 570-539581/2-A  | Lab Control Sample                        | Total/NA  | Water          | 8015B  | 539581     |
| LCSD 570-539581/3-A | Lab Control Sample Dup                    | Total/NA  | Water          | 8015B  | 539581     |
| MRL 570-539581/4-A  | Lab Control Sample                        | Total/NA  | Water          | 8015B  | 539581     |
| 380-137752-1 MS     | HALAWA WELLS UNITS 1 & 2 (331-206-TP065)  | Total/NA  | Drinking Water | 8015B  | 539581     |
| 380-137752-1 MSD    | HALAWA WELLS UNITS 1 & 2 (331-206-TP065)  | Total/NA  | Drinking Water | 8015B  | 539581     |

# Lab Chronicle

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

Job ID: 380-137752-1  
SDG: Weekly

**Client Sample ID: HALAWA WELLS UNITS 1 & 2  
(331-206-TP065)**

**Lab Sample ID: 380-137752-1**

**Date Collected: 02/24/25 10:23**

**Matrix: Drinking Water**

**Date Received: 02/26/25 10:29**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab       | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|-----------|----------------------|
| Total/NA  | Prep       | 525.2        |     |                 | 138422       | OTM3    | EA POM    | 02/27/25 10:34       |
| Total/NA  | Analysis   | 525.2        |     | 1               | 138710       | Q8LA    | EA POM    | 02/28/25 15:39       |
| Total/NA  | Prep       | 625.1        |     |                 | 539018       | H1SH    | EET CAL 4 | 02/28/25 04:41       |
| Total/NA  | Analysis   | 625.1        |     | 1               | 543810       | J7WE    | EET CAL 4 | 03/11/25 22:06       |
| Total/NA  | Prep       | 625.1        |     |                 | 539018       | H1SH    | EET CAL 4 | 02/28/25 04:41       |
| Total/NA  | Analysis   | 625.1 SIM    |     | 1               | 540452       | PQS1    | EET CAL 4 | 03/03/25 19:51       |
| Total/NA  | Analysis   | 8015B GRO LL |     | 1               | 541268       | A9VE    | EET CAL 4 | 03/05/25 15:40       |
| Total/NA  | Prep       | 3510C        |     |                 | 539581       | TVD6    | EET CAL 4 | 02/28/25 12:00       |
| Total/NA  | Analysis   | 8015B        |     | 1               | 543020       | H6FE    | EET CAL 4 | 03/10/25 18:01       |

**Client Sample ID: AIEA WELLS PUMPS 1&2 (260)  
(331-203-TP400)**

**Lab Sample ID: 380-137752-2**

**Date Collected: 02/24/25 11:34**

**Matrix: Drinking Water**

**Date Received: 02/26/25 10:29**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab       | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|-----------|----------------------|
| Total/NA  | Prep       | 525.2        |     |                 | 138422       | OTM3    | EA POM    | 02/27/25 10:34       |
| Total/NA  | Analysis   | 525.2        |     | 1               | 138710       | Q8LA    | EA POM    | 02/28/25 15:59       |
| Total/NA  | Prep       | 625.1        |     |                 | 539018       | H1SH    | EET CAL 4 | 02/28/25 04:41       |
| Total/NA  | Analysis   | 625.1        |     | 1               | 543810       | J7WE    | EET CAL 4 | 03/11/25 22:28       |
| Total/NA  | Prep       | 625.1        |     |                 | 539018       | H1SH    | EET CAL 4 | 02/28/25 04:41       |
| Total/NA  | Analysis   | 625.1 SIM    |     | 1               | 540452       | PQS1    | EET CAL 4 | 03/03/25 23:57       |
| Total/NA  | Analysis   | 8015B GRO LL |     | 1               | 541268       | A9VE    | EET CAL 4 | 03/05/25 18:02       |
| Total/NA  | Prep       | 3510C        |     |                 | 539581       | TVD6    | EET CAL 4 | 02/28/25 17:06       |
| Total/NA  | Analysis   | 8015B        |     | 1               | 543020       | H6FE    | EET CAL 4 | 03/10/25 19:47       |

**Client Sample ID: TB: HALAWA WELLS UNITS 1&2  
(331-206-TP065)**

**Lab Sample ID: 380-137752-3**

**Date Collected: 02/24/25 10:23**

**Matrix: Water**

**Date Received: 02/26/25 10:29**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab       | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|-----------|----------------------|
| Total/NA  | Analysis   | 8015B GRO LL |     | 1               | 541268       | A9VE    | EET CAL 4 | 03/05/25 21:20       |

**Client Sample ID: TB: AIEA WELLS PUMPS 1&2 (260)  
(331-203-TP400)**

**Lab Sample ID: 380-137752-4**

**Date Collected: 02/24/25 11:34**

**Matrix: Water**

**Date Received: 02/26/25 10:29**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab       | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|-----------|----------------------|
| Total/NA  | Analysis   | 8015B GRO LL |     | 1               | 541268       | A9VE    | EET CAL 4 | 03/05/25 21:46       |

Eurofins Eaton Analytical Pomona

# Lab Chronicle

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

Job ID: 380-137752-1  
SDG: Weekly

**Laboratory References:**

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

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



# Accreditation/Certification Summary

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

Job ID: 380-137752-1  
SDG: Weekly

## Laboratory: Eurofins Eaton Analytical Pomona

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

| Authority                                                                                                                                                                                             | Program     | Identification Number | Expiration Date                  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|----------------------------------|
| Hawaii                                                                                                                                                                                                | State       | CA00006               | 01-31-25 *                       |
| The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification. |             |                       |                                  |
| Analysis Method                                                                                                                                                                                       | Prep Method | Matrix                | Analyte                          |
| 525.2                                                                                                                                                                                                 | 525.2       | Drinking Water        | 1-Methylnaphthalene              |
| 525.2                                                                                                                                                                                                 | 525.2       | Drinking Water        | 2,4'-DDD                         |
| 525.2                                                                                                                                                                                                 | 525.2       | Drinking Water        | 2,4'-DDE                         |
| 525.2                                                                                                                                                                                                 | 525.2       | Drinking Water        | 2,4'-DDT                         |
| 525.2                                                                                                                                                                                                 | 525.2       | Drinking Water        | 2,4-Dinitrotoluene               |
| 525.2                                                                                                                                                                                                 | 525.2       | Drinking Water        | 2,6-Dinitrotoluene               |
| 525.2                                                                                                                                                                                                 | 525.2       | Drinking Water        | 2-Methylnaphthalene              |
| 525.2                                                                                                                                                                                                 | 525.2       | Drinking Water        | 4,4'-DDD                         |
| 525.2                                                                                                                                                                                                 | 525.2       | Drinking Water        | 4,4'-DDE                         |
| 525.2                                                                                                                                                                                                 | 525.2       | Drinking Water        | 4,4' DDT                         |
| 525.2                                                                                                                                                                                                 | 525.2       | Drinking Water        | Acetochlor                       |
| 525.2                                                                                                                                                                                                 | 525.2       | Drinking Water        | alpha-BHC                        |
| 525.2                                                                                                                                                                                                 | 525.2       | Drinking Water        | alpha-Chlordane                  |
| 525.2                                                                                                                                                                                                 | 525.2       | Drinking Water        | beta-BHC                         |
| 525.2                                                                                                                                                                                                 | 525.2       | Drinking Water        | Chlorobenzilate                  |
| 525.2                                                                                                                                                                                                 | 525.2       | Drinking Water        | Chloroneb                        |
| 525.2                                                                                                                                                                                                 | 525.2       | Drinking Water        | Chlorothalonil (Draconil, Bravo) |
| 525.2                                                                                                                                                                                                 | 525.2       | Drinking Water        | Chlorpyrifos                     |
| 525.2                                                                                                                                                                                                 | 525.2       | Drinking Water        | delta-BHC                        |
| 525.2                                                                                                                                                                                                 | 525.2       | Drinking Water        | Diclorvos (DDVP)                 |
| 525.2                                                                                                                                                                                                 | 525.2       | Drinking Water        | Endosulfan I (Alpha)             |
| 525.2                                                                                                                                                                                                 | 525.2       | Drinking Water        | Endosulfan II (Beta)             |
| 525.2                                                                                                                                                                                                 | 525.2       | Drinking Water        | Endosulfan sulfate               |
| 525.2                                                                                                                                                                                                 | 525.2       | Drinking Water        | Endrin aldehyde                  |
| 525.2                                                                                                                                                                                                 | 525.2       | Drinking Water        | EPTC                             |
| 525.2                                                                                                                                                                                                 | 525.2       | Drinking Water        | gamma-Chlordane                  |
| 525.2                                                                                                                                                                                                 | 525.2       | Drinking Water        | Isophorone                       |
| 525.2                                                                                                                                                                                                 | 525.2       | Drinking Water        | Malathion                        |
| 525.2                                                                                                                                                                                                 | 525.2       | Drinking Water        | Parathion                        |
| 525.2                                                                                                                                                                                                 | 525.2       | Drinking Water        | Pendimethalin (Penoxaline)       |
| 525.2                                                                                                                                                                                                 | 525.2       | Drinking Water        | Terbacil                         |
| 525.2                                                                                                                                                                                                 | 525.2       | Drinking Water        | Terbutylazine                    |
| 525.2                                                                                                                                                                                                 | 525.2       | Drinking Water        | Total Permethrin (mixed isomers) |
| 525.2                                                                                                                                                                                                 | 525.2       | Drinking Water        | trans-Nonachlor                  |

## Laboratory: Eurofins Calscience

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

| Authority    | Program                                 | Identification Number | Expiration Date |
|--------------|-----------------------------------------|-----------------------|-----------------|
| A2LA         | Dept. of Defense ELAP                   | 7296.01               | 11-30-26        |
| Arizona      | State                                   | AZ0830                | 11-16-25        |
| Arkansas DEQ | State                                   | 88-01672              | 07-02-25        |
| California   | Los Angeles County Sanitation Districts | 9257304               | 07-31-26        |
| California   | SCAQMD LAP                              | 17LA0919              | 11-30-25        |
| California   | State                                   | 3082                  | 07-31-25        |

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

Eurofins Eaton Analytical Pomona

# Accreditation/Certification Summary

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

Job ID: 380-137752-1  
SDG: Weekly

## 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 |
|------------|---------------------|-----------------------|-----------------|
| Kansas     | NELAP               | E-10420               | 07-31-25        |
| Nevada     | State               | CA00111               | 07-31-25        |
| Oregon     | NELAP               | 4175                  | 02-02-26        |
| USDA       | US Federal Programs | 525-23-159-97150      | 06-08-26        |
| Utah       | NELAP               | CA001112025-8         | 02-28-26        |
| Washington | State               | C916                  | 10-11-25        |

# Method Summary

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

Job ID: 380-137752-1  
SDG: Weekly

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

## Protocol References:

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

EPA = US Environmental Protection Agency

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

## Laboratory References:

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

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

# Sample Summary

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

Job ID: 380-137752-1  
SDG: Weekly

| Lab Sample ID | Client Sample ID                                  | Matrix         | Collected      | Received       | PWSID Number |
|---------------|---------------------------------------------------|----------------|----------------|----------------|--------------|
| 380-137752-1  | HALAWA WELLS UNITS 1 & 2 (331-206-TP065)          | Drinking Water | 02/24/25 10:23 | 02/26/25 10:29 | HI0000331    |
| 380-137752-2  | AIEA WELLS PUMPS 1&2 (260)<br>(331-203-TP400)     | Drinking Water | 02/24/25 11:34 | 02/26/25 10:29 | HI0000331    |
| 380-137752-3  | TB: HALAWA WELLS UNITS 1&2<br>(331-206-TP065)     | Water          | 02/24/25 10:23 | 02/26/25 10:29 |              |
| 380-137752-4  | TB: AIEA WELLS PUMPS 1&2 (260)<br>(331-203-TP400) | Water          | 02/24/25 11:34 | 02/26/25 10:29 |              |

## Chain of Custody Record

|                                                                                           |  |                                                                                                                                                                                                                        |  |                                                                                     |  |                                                                                                                                      |  |                                                                                                                           |  |
|-------------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------------------------------------|--|
| <b>Client Information</b>                                                                 |  | Sampler<br>bailey                                                                                                                                                                                                      |  | Lab PIV:<br>Arada Rachelle                                                          |  | Carrier Tracking No(s)                                                                                                               |  | COC No:<br>380-28005-2757 1                                                                                               |  |
| Client Contact:<br>Kirk Iwamoto                                                           |  | Phone:<br>+1 808 748 5840                                                                                                                                                                                              |  | E-Mail:<br>Rachelle.Arada@et.eurofins.com                                           |  | State of Origin:                                                                                                                     |  | Page:<br>Page 1 of 1                                                                                                      |  |
| Company:<br>City & County of Honolulu                                                     |  | PWSID:                                                                                                                                                                                                                 |  | Analysis Requested                                                                  |  | Total Number of Containers                                                                                                           |  | Other                                                                                                                     |  |
| Address:<br>630 South Beretania Street Chemistry Lab                                      |  | Due Date Requested                                                                                                                                                                                                     |  | Field Filtered Sample (Yes or No)                                                   |  | 65.1, 625.1, SIM                                                                                                                     |  | Preservation Codes:<br>R - NaThioSO4<br>RA - NaThio/HCl<br>Q - NaZSO3<br>QA - NaZSO3/HCl<br>Y - Trizma<br>I - NH4 Acetate |  |
| City:<br>Honolulu                                                                         |  | TAT Requested (days):                                                                                                                                                                                                  |  | Perform MS/MSD (Yes or No)                                                          |  | 801SB_GRO_LL (MOD) GRO                                                                                                               |  | Other                                                                                                                     |  |
| State, Zip:<br>HI, 96843                                                                  |  | Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                                                                                                                |  | Sample Type<br>(C=Comp, G=grab)                                                     |  | 801SB_DRO_LL_CS - HNL Ranges C10-C24/C24-C36/C8-C18                                                                                  |  |                                                                                                                           |  |
| Phone:<br>808-748-5840 (Tel)                                                              |  | PO #:<br>C20525101 exp 05312023                                                                                                                                                                                        |  | Sample Time                                                                         |  | 55.2, 2, PREC - (MOD) 525plus Plus TICs                                                                                              |  |                                                                                                                           |  |
| Email:<br>kiwamoto@hbws.org                                                               |  | WO #:                                                                                                                                                                                                                  |  | Preservation Code:                                                                  |  | 537 1, DW, PREC - 537 1 Full List                                                                                                    |  |                                                                                                                           |  |
| Project Name:<br>RED-HILL/HBWS Sites Event Desc: RUSH Weekly Red Hill                     |  | Project #:<br>38001111                                                                                                                                                                                                 |  | Sample Date                                                                         |  | 533 - All Analytes                                                                                                                   |  |                                                                                                                           |  |
| Site:<br>Hawaii                                                                           |  | SSOW#:                                                                                                                                                                                                                 |  | Sample Time                                                                         |  | 537 1, DW, PREC - 537 1 Full List                                                                                                    |  |                                                                                                                           |  |
| Sample Identification                                                                     |  | Sample Date                                                                                                                                                                                                            |  | Sample Time                                                                         |  | Sample Type<br>(C=Comp, G=grab)                                                                                                      |  | Matrix<br>(W=water, S=solid, G=grab)                                                                                      |  |
| Halawa Wells Units 1 & 2 P1                                                               |  | 24-Feb-2025                                                                                                                                                                                                            |  | 1023 G                                                                              |  | Water                                                                                                                                |  | Water                                                                                                                     |  |
| Halawa Wells Units 1 & 2 (Matrix Spike)                                                   |  |                                                                                                                                                                                                                        |  |                                                                                     |  | Water                                                                                                                                |  | Water                                                                                                                     |  |
| Halawa Wells Units 1 & 2 (Matrix Spike Duplicate)                                         |  |                                                                                                                                                                                                                        |  |                                                                                     |  | Water                                                                                                                                |  | Water                                                                                                                     |  |
| TB: Halawa Wells Units 1 & 2                                                              |  | 24-Feb-2025                                                                                                                                                                                                            |  | 023                                                                                 |  | Water                                                                                                                                |  | Water                                                                                                                     |  |
| Aiea Wells Pumps 1&2 (260) P2                                                             |  | 24-Feb-2025                                                                                                                                                                                                            |  | 1134 G                                                                              |  | Water                                                                                                                                |  | Water                                                                                                                     |  |
| Aiea Wells Pumps 1&2 (260) (Matrix Spike)                                                 |  |                                                                                                                                                                                                                        |  |                                                                                     |  | Water                                                                                                                                |  | Water                                                                                                                     |  |
| Aiea Wells Pumps 1&2 (Matrix Spike Duplicate)                                             |  |                                                                                                                                                                                                                        |  |                                                                                     |  | Water                                                                                                                                |  | Water                                                                                                                     |  |
| TB: Aiea Wells Pumps 1&2 (260)                                                            |  | 24-Feb-2025                                                                                                                                                                                                            |  | 1134                                                                                |  | Water                                                                                                                                |  | Water                                                                                                                     |  |
| Possible Hazard Identification                                                            |  | <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological |  | Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) |  | <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months |  | Special Instructions/Note:<br>380-137752 COC                                                                              |  |
| Deliverable Requested: I, II, III, IV Other (specify)                                     |  | Empty Kit Relinquished by:                                                                                                                                                                                             |  | Date                                                                                |  | Time                                                                                                                                 |  | Special Instructions/QC Requirements.                                                                                     |  |
| Relinquished by:                                                                          |  | Date/Time:                                                                                                                                                                                                             |  | Date/Time:                                                                          |  | Date/Time:                                                                                                                           |  | Company                                                                                                                   |  |
| Relinquished by:                                                                          |  | Date/Time:                                                                                                                                                                                                             |  | Date/Time:                                                                          |  | Date/Time:                                                                                                                           |  | Company                                                                                                                   |  |
| Relinquished by:                                                                          |  | Date/Time:                                                                                                                                                                                                             |  | Date/Time:                                                                          |  | Date/Time:                                                                                                                           |  | Company                                                                                                                   |  |
| Custody Seals Intact: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |  | Custody Seal No                                                                                                                                                                                                        |  | Cooler Temperature(s) °C and Other Remarks:                                         |  | (75.1A) 0.8°-0.0°=0.8°                                                                                                               |  | Ver 04/02/2024                                                                                                            |  |

ORIGIN ID-HIKA (808) 748-5840  
BWS CHEMILAB  
HONOLULU BOARD OF WATER SUPPLY  
630 S. BERETANIA ST.  
CHEMICAL LABORATORY  
HONOLULU, HI 96843  
UNITED STATES US

TO EUROFINS RECEIVING DEPARTMENT  
EUROFINS DRINKING WATER TESTING  
941 CORPORATE CENTER DR

POMONA CA 91768

(626) 386-1100 REF.

INV. PC- DEPT.



WED - 26 FEB 10:30A  
PRIORITY OVERNIGHT

2 of 5

MPS# 7723 1110 5215

Mst# 7723 1110 5204

WM ONTA

91768

CA-US ONT



RECEIVED BY: [Signature]  
02/26/25 10:29  
(757A) 0.70-0.00-0.7-  
GEC-FRONT

After printing this label  
CONSIGNEE COPY - PLEASE PLACE IN FRONT OF POUCH  
1 Fold the printed page along the horizontal line  
2 Place label in shipping pouch and affix it to your shipment.

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                              |                              |                                   |                                        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|------------------------------|------------------------------|-----------------------------------|----------------------------------------|
| Client Information (Sub Contract Lab)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                              |                              |                                   |                                        |
| Lab POC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                | Carrier Tracking Note(s):    |                              | COC No:                           |                                        |
| Arada, Rachelle                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                | N/A                          |                              | 380-194381 1                      |                                        |
| E-Mail:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                | State of Origin:             |                              | Page:                             |                                        |
| Rachelle.Arada@eurofinsus.com                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                | Hawaii                       |                              | Page 1 of 1                       |                                        |
| Accreditations Required (See note):                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                | Job #:                       |                              | 380-137752-1                      |                                        |
| State Hawaii                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                |                              |                              | Preservation Codes:               |                                        |
| Analysis Requested                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                |                              |                              |                                   |                                        |
| Due Date Requested:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                | Address:                     |                              | Total Number of Containers        |                                        |
| 3/11/2025                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                | 2841 Dow Avenue, Suite 100,  |                              | Other N/A                         |                                        |
| TAT Requested (days):                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                | City:                        |                              |                                   |                                        |
| N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                | Tustin                       |                              |                                   |                                        |
| PO #:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                | State, Zip:                  |                              |                                   |                                        |
| N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                | CA, 92780                    |                              |                                   |                                        |
| WO #:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                | Phone:                       |                              |                                   |                                        |
| N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                | 714-895-6494(Tel)            |                              |                                   |                                        |
| Project #:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                | Email:                       |                              |                                   |                                        |
| 38001111                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                | N/A                          |                              |                                   |                                        |
| SSOW#:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                | Project Name:                |                              |                                   |                                        |
| N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                | RED-HILL                     |                              |                                   |                                        |
| Site:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                | Honolulu BWS Sites           |                              |                                   |                                        |
| Sample Identification Client ID (Lab ID)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                |                              |                              |                                   |                                        |
| Sample Date                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Sample Time    | Sample Type (C=comp, G=grab) | Matrix (Water, Sewer, Other) | Field Filtered Sample (Yes or No) | Special Instructions/Note:             |
| 2/24/25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 10:23 Hawaiian | G                            | Water                        | X                                 | MRLs are needed. Confirm any hits >RL. |
| 2/24/25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 10:23 Hawaiian | G                            | Water                        | X                                 | MRLs are needed. Confirm any hits >RL. |
| 2/24/25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 10:23 Hawaiian | G                            | Water                        | X                                 | MRLs are needed. Confirm any hits >RL. |
| 2/24/25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 11:34 Hawaiian | G                            | Water                        | X                                 | MRLs are needed. Confirm any hits >RL. |
| 2/24/25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 10:23 Hawaiian | G                            | Water                        | X                                 | MRLs are needed.                       |
| 2/24/25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 11:34 Hawaiian | G                            | Water                        | X                                 | MRLs are needed.                       |
| Note: Since laboratory accreditations are subject to change, Eurofins Eaton Analytical, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/matrix being analyzed, the samples must be shipped back to the Eurofins Eaton Analytical, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Eaton Analytical, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Eaton Analytical, LLC. |                |                              |                              |                                   |                                        |
| Possible Hazard Identification                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                |                              |                              |                                   |                                        |
| Unconfirmed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                |                              |                              |                                   |                                        |
| Deliverable Requested: I, II, III IV Other (specify) Primary Deliverable Rank: 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                |                              |                              |                                   |                                        |
| Empty Kit Relinquished by: _____ Date: _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                |                              |                              |                                   |                                        |
| Relinquished by: _____ Date/Time: 2/27/25 11:11 Company: BSC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                |                              |                              |                                   |                                        |
| Relinquished by: _____ Date/Time: _____ Company: _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                |                              |                              |                                   |                                        |
| Relinquished by: _____ Date/Time: _____ Company: _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                |                              |                              |                                   |                                        |
| Custody Seal Intact: A Yes A No 16/22 seal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                |                              |                              |                                   |                                        |



## Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-137752-1

SDG Number: Weekly

**Login Number: 137752**

**List Source: Eurofins Eaton Analytical Pomona**

**List Number: 1**

**Creator: Ngo, Theodore**

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



## Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-137752-1

SDG Number: Weekly

**Login Number: 137752**

**List Number: 2**

**Creator: Khana, Piyush**

**List Source: Eurofins Calscience**

**List Creation: 02/27/25 01:39 PM**

| Question                                                                                 | Answer | Comment                            |
|------------------------------------------------------------------------------------------|--------|------------------------------------|
| Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.      | N/A    |                                    |
| The cooler's custody seal, if present, is intact.                                        | N/A    |                                    |
| Sample custody seals, if present, are intact.                                            | N/A    |                                    |
| The cooler or samples do not appear to have been compromised or tampered with.           | True   |                                    |
| Samples were received on ice.                                                            | True   |                                    |
| Cooler Temperature is acceptable.                                                        | True   |                                    |
| Cooler Temperature is recorded.                                                          | True   | 2.2                                |
| 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 $<6\text{mm}$ (1/4"). | True   |                                    |
| Multiphasic samples are not present.                                                     | True   |                                    |
| Samples do not require splitting or compositing.                                         | True   |                                    |
| Residual Chlorine Checked.                                                               | N/A    |                                    |