

ANALYTICAL REPORT

PREPARED FOR

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

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JOB DESCRIPTION

RED-HILL
Weekly

JOB NUMBER

380-109956-1

Eurofins Eaton Analytical Pomona

Job Notes

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

Compliance Statement

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

Authorization



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



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Definitions/Glossary

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

Job ID: 380-109956-1
SDG: Weekly

Qualifiers

GC/MS Semi VOA

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

Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|----------------|---|
| α | 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: 380-109956-1

Job ID: 380-109956-1

Eurofins Eaton Analytical Pomona

Job Narrative 380-109956-1

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 8/22/2024 9:53 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 1.0°C and 1.7°C.

GC/MS Semi VOA

Method 625.1_SIM: The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 570-474283 and analytical batch 570-476195 recovered outside control limits for multiple compounds. A re-prep/re-ran was performed and the LCS/LCSD failed low on 2nd attempt. The sample HT expired therefore, no re-extraction. The data excluded due to this QC failure.

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

Gasoline Range Organics

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

Diesel Range Organics

Method 8015B_DRO_LL_CS: The results for C10-C24, C10-C28, C24-C36 in the following samples are suspected to be due to laboratory contamination. Halawa Shaft Viewing Pool (380-109956-1). Data excluded due to this.

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

Detection Summary

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

Job ID: 380-109956-1
SDG: Weekly

Client Sample ID: Halawa Shaft Viewing Pool

Lab Sample ID: 380-109956-1

No Detections.

Client Sample ID: TRAVEL BLANK

Lab Sample ID: 380-109956-2

No Detections.

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

This Detection Summary does not include radiochemical test results.

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Client Sample Results

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

Job ID: 380-109956-1
SDG: Weekly

Client Sample ID: Halawa Shaft Viewing Pool

Lab Sample ID: 380-109956-1

Date Collected: 08/20/24 09:40

Matrix: Water

Date Received: 08/22/24 09:53

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 | | 08/23/24 16:20 | 08/26/24 15:36 | 1 |
| 2,4'-DDD | <0.097 | | 0.097 | ug/L | | 08/23/24 16:20 | 08/26/24 15:36 | 1 |
| 2,4'-DDE | <0.097 | | 0.097 | ug/L | | 08/23/24 16:20 | 08/26/24 15:36 | 1 |
| 2,4'-DDT | <0.097 | | 0.097 | ug/L | | 08/23/24 16:20 | 08/26/24 15:36 | 1 |
| 2,4-Dinitrotoluene | <0.097 | | 0.097 | ug/L | | 08/23/24 16:20 | 08/26/24 15:36 | 1 |
| 2,6-Dinitrotoluene | <0.097 | | 0.097 | ug/L | | 08/23/24 16:20 | 08/26/24 15:36 | 1 |
| 2-Methylnaphthalene | <0.097 | | 0.097 | ug/L | | 08/23/24 16:20 | 08/26/24 15:36 | 1 |
| 4,4'-DDD | <0.097 | | 0.097 | ug/L | | 08/23/24 16:20 | 08/26/24 15:36 | 1 |
| 4,4'-DDE | <0.097 | | 0.097 | ug/L | | 08/23/24 16:20 | 08/26/24 15:36 | 1 |
| 4,4'-DDT | <0.097 | | 0.097 | ug/L | | 08/23/24 16:20 | 08/26/24 15:36 | 1 |
| Acenaphthene | <0.097 | | 0.097 | ug/L | | 08/23/24 16:20 | 08/26/24 15:36 | 1 |
| Acenaphthylene | <0.097 | | 0.097 | ug/L | | 08/23/24 16:20 | 08/26/24 15:36 | 1 |
| Acetochlor | <0.097 | | 0.097 | ug/L | | 08/23/24 16:20 | 08/26/24 15:36 | 1 |
| Alachlor | <0.049 | | 0.049 | ug/L | | 08/23/24 16:20 | 08/26/24 15:36 | 1 |
| alpha-BHC | <0.097 | | 0.097 | ug/L | | 08/23/24 16:20 | 08/26/24 15:36 | 1 |
| alpha-Chlordane | <0.049 | | 0.049 | ug/L | | 08/23/24 16:20 | 08/26/24 15:36 | 1 |
| Anthracene | <0.019 | | 0.019 | ug/L | | 08/23/24 16:20 | 08/26/24 15:36 | 1 |
| Atrazine | <0.049 | | 0.049 | ug/L | | 08/23/24 16:20 | 08/26/24 15:36 | 1 |
| Benz(a)anthracene | <0.049 | | 0.049 | ug/L | | 08/23/24 16:20 | 08/26/24 15:36 | 1 |
| Benzo[a]pyrene | <0.019 | | 0.019 | ug/L | | 08/23/24 16:20 | 08/26/24 15:36 | 1 |
| Benzo[b]fluoranthene | <0.019 | | 0.019 | ug/L | | 08/23/24 16:20 | 08/26/24 15:36 | 1 |
| Benzo[g,h,i]perylene | <0.049 | | 0.049 | ug/L | | 08/23/24 16:20 | 08/26/24 15:36 | 1 |
| Benzo[k]fluoranthene | <0.019 | | 0.019 | ug/L | | 08/23/24 16:20 | 08/26/24 15:36 | 1 |
| beta-BHC | <0.097 | | 0.097 | ug/L | | 08/23/24 16:20 | 08/26/24 15:36 | 1 |
| Bis(2-ethylhexyl) phthalate | <0.58 | | 0.58 | ug/L | | 08/23/24 16:20 | 08/26/24 15:36 | 1 |
| Bromacil | <0.097 | | 0.097 | ug/L | | 08/23/24 16:20 | 08/26/24 15:36 | 1 |
| Butachlor | <0.049 | | 0.049 | ug/L | | 08/23/24 16:20 | 08/26/24 15:36 | 1 |
| Butylbenzylphthalate | <0.49 | | 0.49 | ug/L | | 08/23/24 16:20 | 08/26/24 15:36 | 1 |
| Chlorobenzilate | <0.097 | | 0.097 | ug/L | | 08/23/24 16:20 | 08/26/24 15:36 | 1 |
| Chloroneb | <0.097 | | 0.097 | ug/L | | 08/23/24 16:20 | 08/26/24 15:36 | 1 |
| Chlorothalonil (Draconil, Bravo) | <0.097 | | 0.097 | ug/L | | 08/23/24 16:20 | 08/26/24 15:36 | 1 |
| Chlorpyrifos | <0.049 | | 0.049 | ug/L | | 08/23/24 16:20 | 08/26/24 15:36 | 1 |
| Chrysene | <0.019 | | 0.019 | ug/L | | 08/23/24 16:20 | 08/26/24 15:36 | 1 |
| delta-BHC | <0.097 | | 0.097 | ug/L | | 08/23/24 16:20 | 08/26/24 15:36 | 1 |
| Di(2-ethylhexyl)adipate | <0.58 | | 0.58 | ug/L | | 08/23/24 16:20 | 08/26/24 15:36 | 1 |
| Dibenz(a,h)anthracene | <0.049 | | 0.049 | ug/L | | 08/23/24 16:20 | 08/26/24 15:36 | 1 |
| Diclorvos (DDVP) | <0.049 | | 0.049 | ug/L | | 08/23/24 16:20 | 08/26/24 15:36 | 1 |
| Dieldrin | <0.0097 | ^3+ | 0.0097 | ug/L | | 08/23/24 16:20 | 08/26/24 15:36 | 1 |
| Diethylphthalate | <0.49 | | 0.49 | ug/L | | 08/23/24 16:20 | 08/26/24 15:36 | 1 |
| Dimethylphthalate | <0.49 | | 0.49 | ug/L | | 08/23/24 16:20 | 08/26/24 15:36 | 1 |
| Di-n-butyl phthalate | <0.97 | | 0.97 | ug/L | | 08/23/24 16:20 | 08/26/24 15:36 | 1 |
| Di-n-octyl phthalate | <0.097 | | 0.097 | ug/L | | 08/23/24 16:20 | 08/26/24 15:36 | 1 |
| Endosulfan I (Alpha) | <0.097 | | 0.097 | ug/L | | 08/23/24 16:20 | 08/26/24 15:36 | 1 |
| Endosulfan II (Beta) | <0.097 | | 0.097 | ug/L | | 08/23/24 16:20 | 08/26/24 15:36 | 1 |
| Endosulfan sulfate | <0.097 | | 0.097 | ug/L | | 08/23/24 16:20 | 08/26/24 15:36 | 1 |
| Endrin | <0.0097 | | 0.0097 | ug/L | | 08/23/24 16:20 | 08/26/24 15:36 | 1 |
| Endrin aldehyde | <0.097 | | 0.097 | ug/L | | 08/23/24 16:20 | 08/26/24 15:36 | 1 |
| EPTC | <0.097 | | 0.097 | ug/L | | 08/23/24 16:20 | 08/26/24 15:36 | 1 |
| Fluoranthene | <0.097 | | 0.097 | ug/L | | 08/23/24 16:20 | 08/26/24 15:36 | 1 |

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Client Sample Results

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

Job ID: 380-109956-1
SDG: Weekly

Client Sample ID: Halawa Shaft Viewing Pool

Lab Sample ID: 380-109956-1

Date Collected: 08/20/24 09:40

Matrix: Water

Date Received: 08/22/24 09:53

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------------------|---------|-----------|--------|------|---|----------------|----------------|---------|
| Fluorene | <0.049 | | 0.049 | ug/L | | 08/23/24 16:20 | 08/26/24 15:36 | 1 |
| gamma-Chlordane | <0.049 | | 0.049 | ug/L | | 08/23/24 16:20 | 08/26/24 15:36 | 1 |
| Heptachlor | <0.0097 | | 0.0097 | ug/L | | 08/23/24 16:20 | 08/26/24 15:36 | 1 |
| Heptachlor epoxide (isomer B) | <0.0097 | | 0.0097 | ug/L | | 08/23/24 16:20 | 08/26/24 15:36 | 1 |
| Hexachlorobenzene | <0.049 | | 0.049 | ug/L | | 08/23/24 16:20 | 08/26/24 15:36 | 1 |
| Hexachlorocyclopentadiene | <0.049 | | 0.049 | ug/L | | 08/23/24 16:20 | 08/26/24 15:36 | 1 |
| Indeno[1,2,3-cd]pyrene | <0.049 | | 0.049 | ug/L | | 08/23/24 16:20 | 08/26/24 15:36 | 1 |
| Isophorone | <0.097 | | 0.097 | ug/L | | 08/23/24 16:20 | 08/26/24 15:36 | 1 |
| Lindane | <0.0097 | | 0.0097 | ug/L | | 08/23/24 16:20 | 08/26/24 15:36 | 1 |
| Malathion | <0.097 | | 0.097 | ug/L | | 08/23/24 16:20 | 08/26/24 15:36 | 1 |
| Methoxychlor | <0.049 | ^3+ | 0.049 | ug/L | | 08/23/24 16:20 | 08/26/24 15:36 | 1 |
| Metolachlor | <0.049 | | 0.049 | ug/L | | 08/23/24 16:20 | 08/26/24 15:36 | 1 |
| Molinate | <0.097 | | 0.097 | ug/L | | 08/23/24 16:20 | 08/26/24 15:36 | 1 |
| Naphthalene | <0.097 | | 0.097 | ug/L | | 08/23/24 16:20 | 08/26/24 15:36 | 1 |
| Parathion | <0.097 | | 0.097 | ug/L | | 08/23/24 16:20 | 08/26/24 15:36 | 1 |
| Pendimethalin (Penoxaline) | <0.097 | | 0.097 | ug/L | | 08/23/24 16:20 | 08/26/24 15:36 | 1 |
| Phenanthrene | <0.039 | | 0.039 | ug/L | | 08/23/24 16:20 | 08/26/24 15:36 | 1 |
| Propachlor | <0.049 | | 0.049 | ug/L | | 08/23/24 16:20 | 08/26/24 15:36 | 1 |
| Pyrene | <0.049 | | 0.049 | ug/L | | 08/23/24 16:20 | 08/26/24 15:36 | 1 |
| Simazine | <0.049 | | 0.049 | ug/L | | 08/23/24 16:20 | 08/26/24 15:36 | 1 |
| Terbacil | <0.097 | | 0.097 | ug/L | | 08/23/24 16:20 | 08/26/24 15:36 | 1 |
| Terbutylazine | <0.097 | | 0.097 | ug/L | | 08/23/24 16:20 | 08/26/24 15:36 | 1 |
| Thiobencarb | <0.097 | | 0.097 | ug/L | | 08/23/24 16:20 | 08/26/24 15:36 | 1 |
| Total Permethrin (mixed isomers) | <0.19 | | 0.19 | ug/L | | 08/23/24 16:20 | 08/26/24 15:36 | 1 |
| trans-Nonachlor | <0.049 | | 0.049 | ug/L | | 08/23/24 16:20 | 08/26/24 15:36 | 1 |
| Trifluralin | <0.097 | | 0.097 | ug/L | | 08/23/24 16:20 | 08/26/24 15:36 | 1 |

| Tentatively Identified Compound | Est. Result | Qualifier | Unit | D | RT | CAS No. | Prepared | Analyzed | Dil Fac |
|---------------------------------|-------------|-----------|------|---|------|------------|----------------|----------------|---------|
| Hexazinone | 0.13 | | ug/L | | 8.13 | 51235-04-2 | 08/23/24 16:20 | 08/26/24 15:36 | 1 |
| Tentatively Identified Compound | None | | ug/L | | | N/A | 08/23/24 16:20 | 08/26/24 15:36 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|--------------------|-----------|-----------|----------|----------------|----------------|---------|
| 2-Nitro-m-xylene | 94 | | 70 - 130 | 08/23/24 16:20 | 08/26/24 15:36 | 1 |
| Perylene-d12 | 100 | | 70 - 130 | 08/23/24 16:20 | 08/26/24 15:36 | 1 |
| Triphenylphosphate | 108 | | 70 - 130 | 08/23/24 16:20 | 08/26/24 15:36 | 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 | | | 08/28/24 01:34 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 82 | | 38 - 134 | | 08/28/24 01:34 | 1 |

Client Sample ID: TRAVEL BLANK

Lab Sample ID: 380-109956-2

Date Collected: 08/20/24 09:40

Matrix: Water

Date Received: 08/22/24 09:53

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 | | | 08/27/24 21:41 | 1 |

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Client Sample Results

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

Job ID: 380-109956-1
SDG: Weekly

Client Sample ID: TRAVEL BLANK

Lab Sample ID: 380-109956-2

Date Collected: 08/20/24 09:40

Matrix: Water

Date Received: 08/22/24 09:53

| <u>Surrogate</u> | <u>%Recovery</u> | <u>Qualifier</u> | <u>Limits</u> | <u>Prepared</u> | <u>Analyzed</u> | <u>Dil Fac</u> |
|-----------------------------|------------------|------------------|---------------|-----------------|-----------------|----------------|
| 4-Bromofluorobenzene (Surr) | 79 | | 38 - 134 | | 08/27/24 21:41 | 1 |

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- 3
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- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16

Action Limit Summary

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

Job ID: 380-109956-1
 SDG: Weekly

Client Sample ID: Halawa Shaft Viewing Pool

Lab Sample ID: 380-109956-1

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) | <0.0097 | | 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 | ^3+ | ug/L | 40 | 0.049 | 525.2 | Total/NA |
| Simazine | <0.049 | | ug/L | 4 | 0.049 | 525.2 | Total/NA |

Surrogate Summary

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

Job ID: 380-109956-1
SDG: Weekly

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

Matrix: Water

Prep Type: Total/NA

| Lab Sample ID | Client Sample ID | Percent Surrogate Recovery (Acceptance Limits) | | |
|----------------------|---------------------------|--|-----------------|-----------------|
| | | 2NMX (70-130) | PRY (70-130) | TPP (70-130) |
| 380-109956-1 | Halawa Shaft Viewing Pool | 94 | 100 | 108 |
| 380-109977-B-1-A MS | Matrix Spike | 97 | 101 | 114 |
| 380-109977-C-1-A MSD | Matrix Spike Duplicate | 97 | 102 | 114 |
| LCS 380-105141/23-A | Lab Control Sample | 95 | 100 | 113 |
| MB 380-105141/21-A | Method Blank | 95 | 96 | 105 |
| MRL 380-105141/22-A | Lab Control Sample | 95 | 91 | 104 |

Surrogate Legend

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

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

Matrix: Water

Prep Type: Total/NA

| Lab Sample ID | Client Sample ID | Percent Surrogate Recovery (Acceptance Limits) |
|---------------------|---------------------------|--|
| | | BFB1 (38-134) |
| 380-109664-B-3 MS | Matrix Spike | 86 |
| 380-109664-B-3 MSD | Matrix Spike Duplicate | 92 |
| 380-109956-1 | Halawa Shaft Viewing Pool | 82 |
| 380-109956-2 | TRAVEL BLANK | 79 |
| LCS 570-474932/1008 | Lab Control Sample | 88 |
| LCSD 570-474932/9 | Lab Control Sample Dup | 93 |
| MB 570-474932/11 | Method Blank | 90 |
| MRL 570-474932/10 | Lab Control Sample | 90 |

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

QC Sample Results

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

Job ID: 380-109956-1
SDG: Weekly

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

Lab Sample ID: MB 380-105141/21-A
Matrix: Water
Analysis Batch: 105338

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 105141

| Analyte | MB | MB | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------------------|---------|-----------|--------|------|---|----------------|----------------|---------|
| | Result | Qualifier | | | | | | |
| 1-Methylnaphthalene | <0.099 | | 0.099 | ug/L | | 08/23/24 15:00 | 08/26/24 10:26 | 1 |
| 2,4'-DDD | <0.099 | | 0.099 | ug/L | | 08/23/24 15:00 | 08/26/24 10:26 | 1 |
| 2,4'-DDE | <0.099 | | 0.099 | ug/L | | 08/23/24 15:00 | 08/26/24 10:26 | 1 |
| 2,4'-DDT | <0.099 | | 0.099 | ug/L | | 08/23/24 15:00 | 08/26/24 10:26 | 1 |
| 2,4-Dinitrotoluene | <0.099 | | 0.099 | ug/L | | 08/23/24 15:00 | 08/26/24 10:26 | 1 |
| 2,6-Dinitrotoluene | <0.099 | | 0.099 | ug/L | | 08/23/24 15:00 | 08/26/24 10:26 | 1 |
| 2-Methylnaphthalene | <0.099 | | 0.099 | ug/L | | 08/23/24 15:00 | 08/26/24 10:26 | 1 |
| 4,4'-DDD | <0.099 | | 0.099 | ug/L | | 08/23/24 15:00 | 08/26/24 10:26 | 1 |
| 4,4'-DDE | <0.099 | | 0.099 | ug/L | | 08/23/24 15:00 | 08/26/24 10:26 | 1 |
| 4,4'-DDT | <0.099 | | 0.099 | ug/L | | 08/23/24 15:00 | 08/26/24 10:26 | 1 |
| Acenaphthene | <0.099 | | 0.099 | ug/L | | 08/23/24 15:00 | 08/26/24 10:26 | 1 |
| Acenaphthylene | <0.099 | | 0.099 | ug/L | | 08/23/24 15:00 | 08/26/24 10:26 | 1 |
| Acetochlor | <0.099 | | 0.099 | ug/L | | 08/23/24 15:00 | 08/26/24 10:26 | 1 |
| Alachlor | <0.049 | | 0.049 | ug/L | | 08/23/24 15:00 | 08/26/24 10:26 | 1 |
| alpha-BHC | <0.099 | | 0.099 | ug/L | | 08/23/24 15:00 | 08/26/24 10:26 | 1 |
| alpha-Chlordane | <0.049 | | 0.049 | ug/L | | 08/23/24 15:00 | 08/26/24 10:26 | 1 |
| Anthracene | <0.020 | | 0.020 | ug/L | | 08/23/24 15:00 | 08/26/24 10:26 | 1 |
| Atrazine | <0.049 | | 0.049 | ug/L | | 08/23/24 15:00 | 08/26/24 10:26 | 1 |
| Benz(a)anthracene | <0.049 | | 0.049 | ug/L | | 08/23/24 15:00 | 08/26/24 10:26 | 1 |
| Benzo[a]pyrene | <0.020 | | 0.020 | ug/L | | 08/23/24 15:00 | 08/26/24 10:26 | 1 |
| Benzo[b]fluoranthene | <0.020 | | 0.020 | ug/L | | 08/23/24 15:00 | 08/26/24 10:26 | 1 |
| Benzo[g,h,i]perylene | <0.049 | | 0.049 | ug/L | | 08/23/24 15:00 | 08/26/24 10:26 | 1 |
| Benzo[k]fluoranthene | <0.020 | | 0.020 | ug/L | | 08/23/24 15:00 | 08/26/24 10:26 | 1 |
| beta-BHC | <0.099 | | 0.099 | ug/L | | 08/23/24 15:00 | 08/26/24 10:26 | 1 |
| Bis(2-ethylhexyl) phthalate | <0.59 | | 0.59 | ug/L | | 08/23/24 15:00 | 08/26/24 10:26 | 1 |
| Bromacil | <0.099 | | 0.099 | ug/L | | 08/23/24 15:00 | 08/26/24 10:26 | 1 |
| Butachlor | <0.049 | | 0.049 | ug/L | | 08/23/24 15:00 | 08/26/24 10:26 | 1 |
| Butylbenzylphthalate | <0.49 | | 0.49 | ug/L | | 08/23/24 15:00 | 08/26/24 10:26 | 1 |
| Chlorobenzilate | <0.099 | | 0.099 | ug/L | | 08/23/24 15:00 | 08/26/24 10:26 | 1 |
| Chloroneb | <0.099 | | 0.099 | ug/L | | 08/23/24 15:00 | 08/26/24 10:26 | 1 |
| Chlorothalonil (Draconil, Bravo) | <0.099 | | 0.099 | ug/L | | 08/23/24 15:00 | 08/26/24 10:26 | 1 |
| Chlorpyrifos | <0.049 | | 0.049 | ug/L | | 08/23/24 15:00 | 08/26/24 10:26 | 1 |
| Chrysene | <0.020 | | 0.020 | ug/L | | 08/23/24 15:00 | 08/26/24 10:26 | 1 |
| delta-BHC | <0.099 | | 0.099 | ug/L | | 08/23/24 15:00 | 08/26/24 10:26 | 1 |
| Di(2-ethylhexyl)adipate | <0.59 | | 0.59 | ug/L | | 08/23/24 15:00 | 08/26/24 10:26 | 1 |
| Dibenz(a,h)anthracene | <0.049 | | 0.049 | ug/L | | 08/23/24 15:00 | 08/26/24 10:26 | 1 |
| Diclorvos (DDVP) | <0.049 | | 0.049 | ug/L | | 08/23/24 15:00 | 08/26/24 10:26 | 1 |
| Dieldrin | <0.0099 | | 0.0099 | ug/L | | 08/23/24 15:00 | 08/26/24 10:26 | 1 |
| Diethylphthalate | <0.49 | | 0.49 | ug/L | | 08/23/24 15:00 | 08/26/24 10:26 | 1 |
| Dimethylphthalate | <0.49 | | 0.49 | ug/L | | 08/23/24 15:00 | 08/26/24 10:26 | 1 |
| Di-n-butyl phthalate | <0.99 | | 0.99 | ug/L | | 08/23/24 15:00 | 08/26/24 10:26 | 1 |
| Di-n-octyl phthalate | <0.099 | | 0.099 | ug/L | | 08/23/24 15:00 | 08/26/24 10:26 | 1 |
| Endosulfan I (Alpha) | <0.099 | | 0.099 | ug/L | | 08/23/24 15:00 | 08/26/24 10:26 | 1 |
| Endosulfan II (Beta) | <0.099 | | 0.099 | ug/L | | 08/23/24 15:00 | 08/26/24 10:26 | 1 |
| Endosulfan sulfate | <0.099 | | 0.099 | ug/L | | 08/23/24 15:00 | 08/26/24 10:26 | 1 |
| Endrin | <0.0099 | | 0.0099 | ug/L | | 08/23/24 15:00 | 08/26/24 10:26 | 1 |
| Endrin aldehyde | <0.099 | | 0.099 | ug/L | | 08/23/24 15:00 | 08/26/24 10:26 | 1 |
| EPTC | <0.099 | | 0.099 | ug/L | | 08/23/24 15:00 | 08/26/24 10:26 | 1 |

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-109956-1
SDG: Weekly

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

Lab Sample ID: MB 380-105141/21-A
Matrix: Water
Analysis Batch: 105338

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 105141

| Analyte | MB Result | MB Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------------------|-----------|--------------|--------|------|---|----------------|----------------|---------|
| Fluoranthene | <0.099 | | 0.099 | ug/L | | 08/23/24 15:00 | 08/26/24 10:26 | 1 |
| Fluorene | <0.049 | | 0.049 | ug/L | | 08/23/24 15:00 | 08/26/24 10:26 | 1 |
| gamma-Chlordane | <0.049 | | 0.049 | ug/L | | 08/23/24 15:00 | 08/26/24 10:26 | 1 |
| Heptachlor | <0.0099 | | 0.0099 | ug/L | | 08/23/24 15:00 | 08/26/24 10:26 | 1 |
| Heptachlor epoxide (isomer B) | <0.0099 | | 0.0099 | ug/L | | 08/23/24 15:00 | 08/26/24 10:26 | 1 |
| Hexachlorobenzene | <0.049 | | 0.049 | ug/L | | 08/23/24 15:00 | 08/26/24 10:26 | 1 |
| Hexachlorocyclopentadiene | <0.049 | | 0.049 | ug/L | | 08/23/24 15:00 | 08/26/24 10:26 | 1 |
| Indeno[1,2,3-cd]pyrene | <0.049 | | 0.049 | ug/L | | 08/23/24 15:00 | 08/26/24 10:26 | 1 |
| Isophorone | <0.099 | | 0.099 | ug/L | | 08/23/24 15:00 | 08/26/24 10:26 | 1 |
| Lindane | <0.0099 | | 0.0099 | ug/L | | 08/23/24 15:00 | 08/26/24 10:26 | 1 |
| Malathion | <0.099 | | 0.099 | ug/L | | 08/23/24 15:00 | 08/26/24 10:26 | 1 |
| Methoxychlor | <0.049 | | 0.049 | ug/L | | 08/23/24 15:00 | 08/26/24 10:26 | 1 |
| Metolachlor | <0.049 | | 0.049 | ug/L | | 08/23/24 15:00 | 08/26/24 10:26 | 1 |
| Molinate | <0.099 | | 0.099 | ug/L | | 08/23/24 15:00 | 08/26/24 10:26 | 1 |
| Naphthalene | <0.099 | | 0.099 | ug/L | | 08/23/24 15:00 | 08/26/24 10:26 | 1 |
| Parathion | <0.099 | | 0.099 | ug/L | | 08/23/24 15:00 | 08/26/24 10:26 | 1 |
| Pendimethalin (Penoxaline) | <0.099 | | 0.099 | ug/L | | 08/23/24 15:00 | 08/26/24 10:26 | 1 |
| Phenanthrene | <0.040 | | 0.040 | ug/L | | 08/23/24 15:00 | 08/26/24 10:26 | 1 |
| Propachlor | <0.049 | | 0.049 | ug/L | | 08/23/24 15:00 | 08/26/24 10:26 | 1 |
| Pyrene | <0.049 | | 0.049 | ug/L | | 08/23/24 15:00 | 08/26/24 10:26 | 1 |
| Simazine | <0.049 | | 0.049 | ug/L | | 08/23/24 15:00 | 08/26/24 10:26 | 1 |
| Terbacil | <0.099 | | 0.099 | ug/L | | 08/23/24 15:00 | 08/26/24 10:26 | 1 |
| Terbutylazine | <0.099 | | 0.099 | ug/L | | 08/23/24 15:00 | 08/26/24 10:26 | 1 |
| Thiobencarb | <0.099 | | 0.099 | ug/L | | 08/23/24 15:00 | 08/26/24 10:26 | 1 |
| Total Permethrin (mixed isomers) | <0.20 | | 0.20 | ug/L | | 08/23/24 15:00 | 08/26/24 10:26 | 1 |
| trans-Nonachlor | <0.049 | | 0.049 | ug/L | | 08/23/24 15:00 | 08/26/24 10:26 | 1 |
| Trifluralin | <0.099 | | 0.099 | ug/L | | 08/23/24 15:00 | 08/26/24 10:26 | 1 |

| Tentatively Identified Compound | MB Est. Result | MB Qualifier | Unit | D | RT | CAS No. | Prepared | Analyzed | Dil Fac |
|---------------------------------|----------------|--------------|------|---|----|---------|----------------|----------------|---------|
| Tentatively Identified Compound | None | | ug/L | | | N/A | 08/23/24 15:00 | 08/26/24 10:26 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|--------------------|--------------|--------------|----------|----------------|----------------|---------|
| 2-Nitro-m-xylene | 95 | | 70 - 130 | 08/23/24 15:00 | 08/26/24 10:26 | 1 |
| Perylene-d12 | 96 | | 70 - 130 | 08/23/24 15:00 | 08/26/24 10:26 | 1 |
| Triphenylphosphate | 105 | | 70 - 130 | 08/23/24 15:00 | 08/26/24 10:26 | 1 |

Lab Sample ID: LCS 380-105141/23-A
Matrix: Water
Analysis Batch: 105338

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 105141

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | Limits |
|---------------------|-------------|------------|---------------|------|---|------|----------|
| 1-Methylnaphthalene | 1.97 | 1.92 | | ug/L | | 97 | 70 - 130 |
| 2,4'-DDD | 1.97 | 2.11 | | ug/L | | 107 | 70 - 130 |
| 2,4'-DDE | 1.97 | 2.07 | | ug/L | | 105 | 70 - 130 |
| 2,4'-DDT | 1.97 | 1.89 | | ug/L | | 96 | 70 - 130 |
| 2,4-Dinitrotoluene | 1.97 | 1.91 | | ug/L | | 97 | 70 - 130 |
| 2,6-Dinitrotoluene | 1.97 | 1.85 | | ug/L | | 94 | 70 - 130 |
| 2-Methylnaphthalene | 1.97 | 1.93 | | ug/L | | 98 | 70 - 130 |

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-109956-1
SDG: Weekly

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

Lab Sample ID: LCS 380-105141/23-A
Matrix: Water
Analysis Batch: 105338

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 105141

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------------------------------|-------------|------------|---------------|------|---|------|-------------|
| 4,4'-DDD | 1.97 | 1.94 | | ug/L | | 98 | 70 - 130 |
| 4,4'-DDE | 1.97 | 2.24 | | ug/L | | 113 | 70 - 130 |
| 4,4'-DDT | 1.97 | 1.84 | | ug/L | | 93 | 70 - 130 |
| Acenaphthene | 1.97 | 1.91 | | ug/L | | 97 | 70 - 130 |
| Acenaphthylene | 1.97 | 1.94 | | ug/L | | 98 | 70 - 130 |
| Acetochlor | 1.97 | 2.14 | | ug/L | | 109 | 70 - 130 |
| Alachlor | 1.97 | 2.20 | | ug/L | | 112 | 70 - 130 |
| alpha-BHC | 1.97 | 1.98 | | ug/L | | 100 | 70 - 130 |
| alpha-Chlordane | 1.97 | 2.12 | | ug/L | | 107 | 70 - 130 |
| Anthracene | 1.97 | 1.80 | | ug/L | | 91 | 70 - 130 |
| Atrazine | 1.97 | 1.97 | | ug/L | | 100 | 70 - 130 |
| Benz(a)anthracene | 1.97 | 1.97 | | ug/L | | 100 | 70 - 130 |
| Benzo[a]pyrene | 1.97 | 1.90 | | ug/L | | 96 | 70 - 130 |
| Benzo[b]fluoranthene | 1.97 | 2.00 | | ug/L | | 102 | 70 - 130 |
| Benzo[g,h,i]perylene | 1.97 | 1.96 | | ug/L | | 99 | 70 - 130 |
| Benzo[k]fluoranthene | 1.97 | 2.18 | | ug/L | | 111 | 70 - 130 |
| beta-BHC | 1.97 | 1.97 | | ug/L | | 100 | 70 - 130 |
| Bis(2-ethylhexyl) phthalate | 1.97 | 2.12 | | ug/L | | 107 | 70 - 130 |
| Bromacil | 1.97 | 1.94 | | ug/L | | 98 | 70 - 130 |
| Butachlor | 1.97 | 2.07 | | ug/L | | 105 | 70 - 130 |
| Butylbenzylphthalate | 1.97 | 2.05 | | ug/L | | 104 | 70 - 130 |
| Chlorobenzilate | 1.97 | 2.01 | | ug/L | | 102 | 70 - 130 |
| Chloroneb | 1.97 | 1.95 | | ug/L | | 99 | 70 - 130 |
| Chlorothalonil (Draconil, Bravo) | 1.97 | 2.14 | | ug/L | | 109 | 70 - 130 |
| Chlorpyrifos | 1.97 | 1.95 | | ug/L | | 99 | 70 - 130 |
| Chrysene | 1.97 | 2.05 | | ug/L | | 104 | 70 - 130 |
| delta-BHC | 1.97 | 1.93 | | ug/L | | 98 | 70 - 130 |
| Di(2-ethylhexyl)adipate | 1.97 | 2.07 | | ug/L | | 105 | 70 - 130 |
| Dibenz(a,h)anthracene | 1.97 | 1.95 | | ug/L | | 99 | 70 - 130 |
| Diclorvos (DDVP) | 1.97 | 2.02 | | ug/L | | 103 | 70 - 130 |
| Dieldrin | 1.97 | 1.98 | | ug/L | | 100 | 70 - 130 |
| Diethylphthalate | 1.97 | 2.05 | | ug/L | | 104 | 70 - 130 |
| Dimethylphthalate | 1.97 | 2.00 | | ug/L | | 101 | 70 - 130 |
| Di-n-butyl phthalate | 3.94 | 4.02 | | ug/L | | 102 | 70 - 130 |
| Di-n-octyl phthalate | 1.97 | 2.06 | | ug/L | | 104 | 70 - 130 |
| Endosulfan I (Alpha) | 1.97 | 1.96 | | ug/L | | 100 | 70 - 130 |
| Endosulfan II (Beta) | 1.97 | 2.05 | | ug/L | | 104 | 70 - 130 |
| Endosulfan sulfate | 1.97 | 1.96 | | ug/L | | 99 | 70 - 130 |
| Endrin | 1.97 | 1.93 | | ug/L | | 98 | 70 - 130 |
| Endrin aldehyde | 1.97 | 2.20 | | ug/L | | 111 | 60 - 130 |
| EPTC | 1.97 | 1.99 | | ug/L | | 101 | 70 - 130 |
| Fluoranthene | 1.97 | 2.17 | | ug/L | | 110 | 70 - 130 |
| Fluorene | 1.97 | 2.02 | | ug/L | | 103 | 70 - 130 |
| gamma-Chlordane | 1.97 | 2.11 | | ug/L | | 107 | 70 - 130 |
| Heptachlor | 1.97 | 1.97 | | ug/L | | 100 | 70 - 130 |
| Heptachlor epoxide (isomer B) | 1.97 | 2.35 | | ug/L | | 119 | 70 - 130 |
| Hexachlorobenzene | 1.97 | 1.94 | | ug/L | | 98 | 70 - 130 |
| Hexachlorocyclopentadiene | 1.97 | 1.56 | | ug/L | | 79 | 70 - 130 |
| Indeno[1,2,3-cd]pyrene | 1.97 | 1.94 | | ug/L | | 98 | 70 - 130 |

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-109956-1
SDG: Weekly

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

Lab Sample ID: LCS 380-105141/23-A
Matrix: Water
Analysis Batch: 105338

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 105141

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------------------------|-------------|------------|---------------|------|---|------|-------------|
| Isophorone | 1.97 | 1.85 | | ug/L | | 94 | 70 - 130 |
| Lindane | 1.97 | 1.85 | | ug/L | | 94 | 70 - 130 |
| Malathion | 1.97 | 2.04 | | ug/L | | 104 | 70 - 130 |
| Methoxychlor | 1.97 | 1.97 | | ug/L | | 100 | 70 - 130 |
| Metolachlor | 1.97 | 2.23 | | ug/L | | 113 | 70 - 130 |
| Molinate | 1.97 | 2.07 | | ug/L | | 105 | 70 - 130 |
| Naphthalene | 1.97 | 1.83 | | ug/L | | 93 | 70 - 130 |
| Parathion | 1.97 | 2.03 | | ug/L | | 103 | 70 - 130 |
| Pendimethalin (Penoxaline) | 1.97 | 1.94 | | ug/L | | 99 | 70 - 130 |
| Phenanthrene | 1.97 | 1.93 | | ug/L | | 98 | 70 - 130 |
| Propachlor | 1.97 | 2.05 | | ug/L | | 104 | 70 - 130 |
| Pyrene | 1.97 | 1.96 | | ug/L | | 99 | 70 - 130 |
| Simazine | 1.97 | 1.90 | | ug/L | | 96 | 70 - 130 |
| Terbacil | 1.97 | 2.10 | | ug/L | | 107 | 70 - 130 |
| Terbutylazine | 1.97 | 1.94 | | ug/L | | 99 | 70 - 130 |
| Thiobencarb | 1.97 | 2.21 | | ug/L | | 112 | 70 - 130 |
| trans-Nonachlor | 1.97 | 2.13 | | ug/L | | 108 | 70 - 130 |
| Trifluralin | 1.97 | 1.95 | | ug/L | | 99 | 70 - 130 |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|--------------------|---------------|---------------|----------|
| 2-Nitro-m-xylene | 95 | | 70 - 130 |
| Perylene-d12 | 100 | | 70 - 130 |
| Triphenylphosphate | 113 | | 70 - 130 |

Lab Sample ID: MRL 380-105141/22-A
Matrix: Water
Analysis Batch: 105338

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 105141

| Analyte | Spike Added | MRL Result | MRL Qualifier | Unit | D | %Rec | %Rec Limits |
|---------------------|-------------|------------|---------------|------|---|------|-------------|
| 1-Methylnaphthalene | 0.0987 | 0.116 | | ug/L | | 117 | 50 - 150 |
| 2,4'-DDD | 0.0987 | 0.101 | | ug/L | | 103 | 50 - 150 |
| 2,4'-DDE | 0.0987 | 0.113 | | ug/L | | 114 | 50 - 150 |
| 2,4'-DDT | 0.0987 | 0.119 | | ug/L | | 120 | 50 - 150 |
| 2,4-Dinitrotoluene | 0.0987 | 0.123 | | ug/L | | 125 | 50 - 150 |
| 2,6-Dinitrotoluene | 0.0987 | 0.115 | | ug/L | | 116 | 50 - 150 |
| 2-Methylnaphthalene | 0.0987 | 0.104 | | ug/L | | 105 | 50 - 150 |
| 4,4'-DDD | 0.0987 | 0.127 | | ug/L | | 129 | 50 - 150 |
| 4,4'-DDE | 0.0987 | 0.111 | | ug/L | | 113 | 50 - 150 |
| 4,4'-DDT | 0.0987 | 0.114 | | ug/L | | 115 | 50 - 150 |
| Acenaphthene | 0.0987 | 0.102 | | ug/L | | 103 | 50 - 150 |
| Acenaphthylene | 0.0987 | 0.0736 | J | ug/L | | 75 | 50 - 150 |
| Acetochlor | 0.0987 | 0.125 | | ug/L | | 127 | 50 - 150 |
| Alachlor | 0.0493 | 0.0603 | | ug/L | | 122 | 50 - 150 |
| alpha-BHC | 0.0987 | 0.116 | | ug/L | | 117 | 50 - 150 |
| alpha-Chlordane | 0.0247 | 0.0314 | J | ug/L | | 127 | 50 - 150 |
| Anthracene | 0.0197 | 0.0238 | | ug/L | | 121 | 50 - 150 |
| Atrazine | 0.0493 | 0.0690 | | ug/L | | 140 | 50 - 150 |
| Benz(a)anthracene | 0.0493 | 0.0533 | | ug/L | | 108 | 50 - 150 |

QC Sample Results

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

Job ID: 380-109956-1
SDG: Weekly

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

Lab Sample ID: MRL 380-105141/22-A
Matrix: Water
Analysis Batch: 105338

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 105141

| Analyte | Spike Added | MRL Result | MRL Qualifier | Unit | D | %Rec | %Rec Limits |
|----------------------------------|-------------|------------|---------------|------|---|------|-------------|
| Benzo[a]pyrene | 0.0197 | 0.0251 | | ug/L | | 127 | 50 - 150 |
| Benzo[b]fluoranthene | 0.0197 | 0.0208 | | ug/L | | 105 | 50 - 150 |
| Benzo[g,h,i]perylene | 0.0493 | 0.0473 | J | ug/L | | 96 | 50 - 150 |
| Benzo[k]fluoranthene | 0.0197 | 0.0216 | | ug/L | | 110 | 50 - 150 |
| beta-BHC | 0.0987 | 0.120 | | ug/L | | 122 | 50 - 150 |
| Bis(2-ethylhexyl) phthalate | 0.592 | 0.718 | | ug/L | | 121 | 50 - 150 |
| Bromacil | 0.0987 | 0.120 | | ug/L | | 122 | 50 - 150 |
| Butachlor | 0.0493 | 0.0742 | | ug/L | | 150 | 50 - 150 |
| Butylbenzylphthalate | 0.493 | 0.547 | | ug/L | | 111 | 50 - 150 |
| Chlorobenzilate | 0.0987 | 0.0942 | J | ug/L | | 96 | 50 - 150 |
| Chloroneb | 0.0987 | 0.132 | | ug/L | | 133 | 50 - 150 |
| Chlorothalonil (Draconil, Bravo) | 0.0987 | 0.113 | | ug/L | | 115 | 50 - 150 |
| Chlorpyrifos | 0.0493 | 0.0739 | | ug/L | | 150 | 50 - 150 |
| Chrysene | 0.0197 | 0.0246 | | ug/L | | 125 | 50 - 150 |
| delta-BHC | 0.0987 | 0.108 | | ug/L | | 109 | 50 - 150 |
| Di(2-ethylhexyl)adipate | 0.592 | 0.625 | | ug/L | | 106 | 50 - 150 |
| Dibenz(a,h)anthracene | 0.0493 | 0.0452 | J | ug/L | | 92 | 50 - 150 |
| Diclorvos (DDVP) | 0.0493 | 0.0529 | | ug/L | | 107 | 50 - 150 |
| Dieldrin | 0.00987 | 0.0172 | ^3+ | ug/L | | 174 | 50 - 150 |
| Diethylphthalate | 0.493 | 0.560 | | ug/L | | 114 | 50 - 150 |
| Dimethylphthalate | 0.493 | 0.516 | | ug/L | | 105 | 50 - 150 |
| Di-n-butyl phthalate | 0.493 | 0.595 | J | ug/L | | 121 | 49 - 243 |
| Di-n-octyl phthalate | 0.0987 | 0.113 | | ug/L | | 114 | 50 - 150 |
| Endosulfan I (Alpha) | 0.0987 | 0.100 | | ug/L | | 102 | 50 - 150 |
| Endosulfan II (Beta) | 0.0987 | 0.115 | | ug/L | | 117 | 50 - 150 |
| Endosulfan sulfate | 0.0987 | 0.115 | | ug/L | | 117 | 50 - 150 |
| Endrin | 0.00987 | 0.0116 | | ug/L | | 117 | 50 - 150 |
| Endrin aldehyde | 0.0987 | 0.145 | | ug/L | | 147 | 50 - 150 |
| EPTC | 0.0987 | 0.0902 | J | ug/L | | 91 | 50 - 150 |
| Fluoranthene | 0.0987 | 0.112 | | ug/L | | 113 | 50 - 150 |
| Fluorene | 0.0493 | 0.0542 | | ug/L | | 110 | 50 - 150 |
| gamma-Chlordane | 0.0247 | 0.0324 | J | ug/L | | 131 | 50 - 150 |
| Heptachlor | 0.00987 | 0.0121 | | ug/L | | 123 | 50 - 150 |
| Heptachlor epoxide (isomer B) | 0.00987 | 0.0145 | | ug/L | | 147 | 50 - 150 |
| Hexachlorobenzene | 0.0493 | 0.0499 | | ug/L | | 101 | 50 - 150 |
| Hexachlorocyclopentadiene | 0.0493 | <0.037 | | ug/L | | 70 | 50 - 150 |
| Indeno[1,2,3-cd]pyrene | 0.0493 | 0.0400 | J | ug/L | | 81 | 50 - 150 |
| Isophorone | 0.0987 | 0.116 | | ug/L | | 118 | 50 - 150 |
| Lindane | 0.00987 | 0.0148 | | ug/L | | 150 | 50 - 150 |
| Malathion | 0.0987 | 0.119 | | ug/L | | 121 | 50 - 150 |
| Methoxychlor | 0.0493 | 0.0805 | ^3+ | ug/L | | 163 | 50 - 150 |
| Metolachlor | 0.0493 | 0.0633 | | ug/L | | 128 | 50 - 150 |
| Molinate | 0.0987 | 0.115 | | ug/L | | 116 | 50 - 150 |
| Naphthalene | 0.0987 | 0.101 | | ug/L | | 102 | 50 - 150 |
| Parathion | 0.0987 | 0.113 | | ug/L | | 115 | 50 - 150 |
| Pendimethalin (Penoxaline) | 0.0987 | 0.115 | | ug/L | | 116 | 50 - 150 |
| Phenanthrene | 0.0395 | 0.0489 | | ug/L | | 124 | 50 - 150 |
| Propachlor | 0.0493 | 0.0509 | | ug/L | | 103 | 50 - 150 |
| Pyrene | 0.0493 | 0.0666 | | ug/L | | 135 | 50 - 150 |

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QC Sample Results

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

Job ID: 380-109956-1
SDG: Weekly

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

Lab Sample ID: MRL 380-105141/22-A
Matrix: Water
Analysis Batch: 105338

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 105141

| Analyte | Spike Added | MRL Result | MRL Qualifier | Unit | D | %Rec | %Rec Limits |
|-----------------|-------------|------------|---------------|------|---|------|-------------|
| Simazine | 0.0493 | 0.0670 | | ug/L | | 136 | 50 - 150 |
| Terbacil | 0.0987 | 0.124 | | ug/L | | 126 | 50 - 150 |
| Terbutylazine | 0.0987 | 0.117 | | ug/L | | 119 | 50 - 150 |
| Thiobencarb | 0.0987 | 0.120 | | ug/L | | 121 | 50 - 150 |
| trans-Nonachlor | 0.0247 | 0.0326 | J | ug/L | | 132 | 50 - 150 |
| Trifluralin | 0.0987 | 0.118 | | ug/L | | 119 | 50 - 150 |

| Surrogate | MRL %Recovery | MRL Qualifier | MRL Limits |
|--------------------|---------------|---------------|------------|
| 2-Nitro-m-xylene | 95 | | 70 - 130 |
| Perylene-d12 | 91 | | 70 - 130 |
| Triphenylphosphate | 104 | | 70 - 130 |

Lab Sample ID: 380-109977-B-1-A MS
Matrix: Water
Analysis Batch: 105338

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 105141

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------------------------------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| 1-Methylnaphthalene | <0.099 | | 1.95 | 1.92 | | ug/L | | 99 | 70 - 130 |
| 2,4'-DDD | <0.099 | | 1.95 | 2.07 | | ug/L | | 106 | 70 - 130 |
| 2,4'-DDE | <0.099 | | 1.95 | 1.96 | | ug/L | | 101 | 70 - 130 |
| 2,4'-DDT | <0.099 | | 1.95 | 1.76 | | ug/L | | 90 | 70 - 130 |
| 2,4-Dinitrotoluene | <0.099 | | 1.95 | 1.98 | | ug/L | | 102 | 70 - 130 |
| 2,6-Dinitrotoluene | <0.099 | | 1.95 | 1.97 | | ug/L | | 101 | 70 - 130 |
| 2-Methylnaphthalene | <0.099 | | 1.95 | 1.95 | | ug/L | | 100 | 70 - 130 |
| 4,4'-DDD | <0.099 | | 1.95 | 1.91 | | ug/L | | 98 | 70 - 130 |
| 4,4'-DDE | <0.099 | | 1.95 | 2.09 | | ug/L | | 108 | 70 - 130 |
| 4,4'-DDT | <0.099 | | 1.95 | 1.69 | | ug/L | | 87 | 70 - 130 |
| Acenaphthene | <0.099 | | 1.95 | 1.88 | | ug/L | | 97 | 70 - 130 |
| Acenaphthylene | <0.099 | | 1.95 | 1.91 | | ug/L | | 98 | 70 - 130 |
| Acetochlor | <0.099 | | 1.95 | 2.17 | | ug/L | | 112 | 70 - 130 |
| Alachlor | <0.050 | | 1.95 | 2.19 | | ug/L | | 113 | 70 - 130 |
| alpha-BHC | <0.099 | | 1.95 | 1.97 | | ug/L | | 101 | 70 - 130 |
| alpha-Chlordane | <0.050 | | 1.95 | 2.05 | | ug/L | | 105 | 70 - 130 |
| Anthracene | <0.020 | | 1.95 | 1.73 | | ug/L | | 89 | 70 - 130 |
| Atrazine | <0.050 | | 1.95 | 1.98 | | ug/L | | 102 | 70 - 130 |
| Benz(a)anthracene | <0.050 | | 1.95 | 1.93 | | ug/L | | 99 | 70 - 130 |
| Benzo[a]pyrene | <0.020 | | 1.95 | 1.96 | | ug/L | | 101 | 70 - 130 |
| Benzo[b]fluoranthene | <0.020 | | 1.95 | 2.02 | | ug/L | | 104 | 70 - 130 |
| Benzo[g,h,i]perylene | <0.050 | | 1.95 | 1.91 | | ug/L | | 98 | 70 - 130 |
| Benzo[k]fluoranthene | <0.020 | | 1.95 | 2.15 | | ug/L | | 110 | 70 - 130 |
| beta-BHC | <0.099 | | 1.95 | 1.95 | | ug/L | | 100 | 70 - 130 |
| Bis(2-ethylhexyl) phthalate | <0.60 | | 1.95 | 1.83 | | ug/L | | 94 | 70 - 130 |
| Bromacil | <0.099 | | 1.95 | 2.01 | | ug/L | | 104 | 70 - 130 |
| Butachlor | <0.050 | | 1.95 | 2.08 | | ug/L | | 107 | 70 - 130 |
| Butylbenzylphthalate | <0.50 | | 1.95 | 2.07 | | ug/L | | 106 | 70 - 130 |
| Chlorobenzilate | <0.099 | | 1.95 | 2.04 | | ug/L | | 105 | 70 - 130 |
| Chloroneb | <0.099 | | 1.95 | 1.89 | | ug/L | | 97 | 70 - 130 |
| Chlorothalonil (Draconil, Bravo) | <0.099 | | 1.95 | 1.96 | | ug/L | | 101 | 70 - 130 |

QC Sample Results

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

Job ID: 380-109956-1
SDG: Weekly

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

Lab Sample ID: 380-109977-B-1-A MS
Matrix: Water
Analysis Batch: 105338

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 105141

| Analyte | Sample | Sample | Spike | MS | MS | Unit | D | %Rec | %Rec Limits |
|-------------------------------|---------|-----------|-------|--------|-----------|------|---|------|----------------|
| | Result | Qualifier | Added | Result | Qualifier | | | | |
| Chlorpyrifos | <0.050 | | 1.95 | 1.93 | | ug/L | | 99 | 70 - 130 |
| Chrysene | <0.020 | | 1.95 | 2.06 | | ug/L | | 106 | 70 - 130 |
| delta-BHC | <0.099 | | 1.95 | 1.92 | | ug/L | | 99 | 70 - 130 |
| Di(2-ethylhexyl)adipate | <0.60 | | 1.95 | 1.84 | | ug/L | | 94 | 70 - 130 |
| Dibenz(a,h)anthracene | <0.050 | | 1.95 | 1.88 | | ug/L | | 97 | 70 - 130 |
| Diclorvos (DDVP) | <0.050 | | 1.95 | 2.08 | | ug/L | | 107 | 70 - 130 |
| Dieldrin | <0.0099 | ^3+ | 1.95 | 1.99 | | ug/L | | 102 | 70 - 130 |
| Diethylphthalate | <0.50 | | 1.95 | 2.04 | | ug/L | | 105 | 70 - 130 |
| Dimethylphthalate | <0.50 | | 1.95 | 2.03 | | ug/L | | 104 | 70 - 130 |
| Di-n-butyl phthalate | <0.99 | | 3.89 | 3.96 | | ug/L | | 102 | 70 - 130 |
| Di-n-octyl phthalate | <0.099 | | 1.95 | 1.74 | | ug/L | | 89 | 70 - 130 |
| Endosulfan I (Alpha) | <0.099 | | 1.95 | 1.97 | | ug/L | | 101 | 70 - 130 |
| Endosulfan II (Beta) | <0.099 | | 1.95 | 2.06 | | ug/L | | 106 | 70 - 130 |
| Endosulfan sulfate | <0.099 | | 1.95 | 1.97 | | ug/L | | 101 | 70 - 130 |
| Endrin | <0.0099 | | 1.95 | 1.94 | | ug/L | | 100 | 70 - 130 |
| Endrin aldehyde | <0.099 | | 1.95 | 1.98 | | ug/L | | 102 | 60 - 130 |
| EPTC | <0.099 | | 1.95 | 1.98 | | ug/L | | 102 | 70 - 130 |
| Fluoranthene | <0.099 | | 1.95 | 2.17 | | ug/L | | 112 | 70 - 130 |
| Fluorene | <0.050 | | 1.95 | 2.01 | | ug/L | | 104 | 70 - 130 |
| gamma-Chlordane | <0.050 | | 1.95 | 2.05 | | ug/L | | 105 | 70 - 130 |
| Heptachlor | <0.0099 | | 1.95 | 1.97 | | ug/L | | 101 | 70 - 130 |
| Heptachlor epoxide (isomer B) | <0.0099 | | 1.95 | 2.35 | | ug/L | | 121 | 70 - 130 |
| Hexachlorobenzene | <0.050 | | 1.95 | 1.95 | | ug/L | | 100 | 70 - 130 |
| Hexachlorocyclopentadiene | <0.050 | | 1.95 | 1.55 | | ug/L | | 80 | 70 - 130 |
| Indeno[1,2,3-cd]pyrene | <0.050 | | 1.95 | 1.95 | | ug/L | | 100 | 70 - 130 |
| Isophorone | <0.099 | | 1.95 | 1.90 | | ug/L | | 98 | 70 - 130 |
| Lindane | <0.0099 | | 1.95 | 1.83 | | ug/L | | 94 | 70 - 130 |
| Malathion | <0.099 | | 1.95 | 2.07 | | ug/L | | 106 | 70 - 130 |
| Methoxychlor | <0.050 | ^3+ | 1.95 | 2.00 | | ug/L | | 103 | 70 - 130 |
| Metolachlor | <0.050 | | 1.95 | 2.21 | | ug/L | | 114 | 70 - 130 |
| Molinate | <0.099 | | 1.95 | 2.05 | | ug/L | | 105 | 70 - 130 |
| Naphthalene | <0.099 | | 1.95 | 1.84 | | ug/L | | 94 | 70 - 130 |
| Parathion | <0.099 | | 1.95 | 2.05 | | ug/L | | 105 | 70 - 130 |
| Pendimethalin (Penoxaline) | <0.099 | | 1.95 | 2.02 | | ug/L | | 104 | 70 - 130 |
| Phenanthrene | <0.040 | | 1.95 | 1.92 | | ug/L | | 99 | 70 - 130 |
| Propachlor | <0.050 | | 1.95 | 2.06 | | ug/L | | 106 | 70 - 130 |
| Pyrene | <0.050 | | 1.95 | 1.94 | | ug/L | | 100 | 70 - 130 |
| Simazine | <0.050 | | 1.95 | 1.91 | | ug/L | | 98 | 70 - 130 |
| Terbacil | <0.099 | | 1.95 | 2.14 | | ug/L | | 110 | 70 - 130 |
| Terbutylazine | <0.099 | | 1.95 | 1.95 | | ug/L | | 100 | 70 - 130 |
| Thiobencarb | <0.099 | | 1.95 | 2.20 | | ug/L | | 113 | 70 - 130 |
| trans-Nonachlor | <0.050 | | 1.95 | 2.04 | | ug/L | | 105 | 70 - 130 |
| Trifluralin | <0.099 | | 1.95 | 2.01 | | ug/L | | 103 | 70 - 130 |

| Surrogate | MS | MS | Limits |
|--------------------|-----------|-----------|----------|
| | %Recovery | Qualifier | |
| 2-Nitro-m-xylene | 97 | | 70 - 130 |
| Perylene-d12 | 101 | | 70 - 130 |
| Triphenylphosphate | 114 | | 70 - 130 |

QC Sample Results

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

Job ID: 380-109956-1
SDG: Weekly

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

Lab Sample ID: 380-109977-C-1-A MSD
Matrix: Water
Analysis Batch: 105338

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 105141

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|----------------------------------|---------------|------------------|-------------|------------|---------------|------|---|------|-------------|-----|-----------|
| 1-Methylnaphthalene | <0.099 | | 1.96 | 1.93 | | ug/L | | 98 | 70 - 130 | 0 | 20 |
| 2,4'-DDD | <0.099 | | 1.96 | 2.10 | | ug/L | | 107 | 70 - 130 | 1 | 20 |
| 2,4'-DDE | <0.099 | | 1.96 | 1.99 | | ug/L | | 102 | 70 - 130 | 1 | 20 |
| 2,4'-DDT | <0.099 | | 1.96 | 1.76 | | ug/L | | 90 | 70 - 130 | 0 | 20 |
| 2,4-Dinitrotoluene | <0.099 | | 1.96 | 1.98 | | ug/L | | 101 | 70 - 130 | 0 | 20 |
| 2,6-Dinitrotoluene | <0.099 | | 1.96 | 1.94 | | ug/L | | 99 | 70 - 130 | 2 | 20 |
| 2-Methylnaphthalene | <0.099 | | 1.96 | 1.94 | | ug/L | | 99 | 70 - 130 | 1 | 20 |
| 4,4'-DDD | <0.099 | | 1.96 | 1.93 | | ug/L | | 99 | 70 - 130 | 1 | 20 |
| 4,4'-DDE | <0.099 | | 1.96 | 2.13 | | ug/L | | 109 | 70 - 130 | 2 | 20 |
| 4,4'-DDT | <0.099 | | 1.96 | 1.70 | | ug/L | | 86 | 70 - 130 | 0 | 20 |
| Acenaphthene | <0.099 | | 1.96 | 1.90 | | ug/L | | 97 | 70 - 130 | 1 | 20 |
| Acenaphthylene | <0.099 | | 1.96 | 2.06 | | ug/L | | 105 | 70 - 130 | 8 | 20 |
| Acetochlor | <0.099 | | 1.96 | 2.16 | | ug/L | | 110 | 70 - 130 | 1 | 20 |
| Alachlor | <0.050 | | 1.96 | 2.21 | | ug/L | | 113 | 70 - 130 | 1 | 20 |
| alpha-BHC | <0.099 | | 1.96 | 2.00 | | ug/L | | 102 | 70 - 130 | 1 | 20 |
| alpha-Chlordane | <0.050 | | 1.96 | 2.08 | | ug/L | | 106 | 70 - 130 | 2 | 20 |
| Anthracene | <0.020 | | 1.96 | 1.74 | | ug/L | | 89 | 70 - 130 | 1 | 20 |
| Atrazine | <0.050 | | 1.96 | 2.00 | | ug/L | | 102 | 70 - 130 | 1 | 20 |
| Benz(a)anthracene | <0.050 | | 1.96 | 1.97 | | ug/L | | 101 | 70 - 130 | 2 | 20 |
| Benzo[a]pyrene | <0.020 | | 1.96 | 2.01 | | ug/L | | 102 | 70 - 130 | 2 | 20 |
| Benzo[b]fluoranthene | <0.020 | | 1.96 | 2.06 | | ug/L | | 105 | 70 - 130 | 2 | 20 |
| Benzo[g,h,i]perylene | <0.050 | | 1.96 | 1.94 | | ug/L | | 99 | 70 - 130 | 2 | 20 |
| Benzo[k]fluoranthene | <0.020 | | 1.96 | 2.16 | | ug/L | | 110 | 70 - 130 | 1 | 20 |
| beta-BHC | <0.099 | | 1.96 | 1.98 | | ug/L | | 101 | 70 - 130 | 1 | 20 |
| Bis(2-ethylhexyl) phthalate | <0.60 | | 1.96 | 1.99 | | ug/L | | 101 | 70 - 130 | 8 | 20 |
| Bromacil | <0.099 | | 1.96 | 2.05 | | ug/L | | 105 | 70 - 130 | 2 | 20 |
| Butachlor | <0.050 | | 1.96 | 2.09 | | ug/L | | 107 | 70 - 130 | 1 | 20 |
| Butylbenzylphthalate | <0.50 | | 1.96 | 2.08 | | ug/L | | 106 | 70 - 130 | 1 | 20 |
| Chlorobenzilate | <0.099 | | 1.96 | 2.14 | | ug/L | | 109 | 70 - 130 | 5 | 20 |
| Chloroneb | <0.099 | | 1.96 | 1.87 | | ug/L | | 96 | 70 - 130 | 1 | 20 |
| Chlorothalonil (Draconil, Bravo) | <0.099 | | 1.96 | 2.01 | | ug/L | | 102 | 70 - 130 | 2 | 20 |
| Chlorpyrifos | <0.050 | | 1.96 | 1.92 | | ug/L | | 98 | 70 - 130 | 1 | 20 |
| Chrysene | <0.020 | | 1.96 | 2.05 | | ug/L | | 105 | 70 - 130 | 0 | 20 |
| delta-BHC | <0.099 | | 1.96 | 1.92 | | ug/L | | 98 | 70 - 130 | 0 | 20 |
| Di(2-ethylhexyl)adipate | <0.60 | | 1.96 | 1.97 | | ug/L | | 100 | 70 - 130 | 7 | 20 |
| Dibenz(a,h)anthracene | <0.050 | | 1.96 | 1.95 | | ug/L | | 99 | 70 - 130 | 3 | 20 |
| Diclorvos (DDVP) | <0.050 | | 1.96 | 2.11 | | ug/L | | 108 | 70 - 130 | 2 | 20 |
| Dieldrin | <0.0099 | ^3+ | 1.96 | 2.01 | | ug/L | | 103 | 70 - 130 | 1 | 20 |
| Diethylphthalate | <0.50 | | 1.96 | 2.08 | | ug/L | | 106 | 70 - 130 | 2 | 20 |
| Dimethylphthalate | <0.50 | | 1.96 | 2.05 | | ug/L | | 104 | 70 - 130 | 1 | 20 |
| Di-n-butyl phthalate | <0.99 | | 3.92 | 3.99 | | ug/L | | 102 | 70 - 130 | 1 | 20 |
| Di-n-octyl phthalate | <0.099 | | 1.96 | 1.91 | | ug/L | | 97 | 70 - 130 | 9 | 20 |
| Endosulfan I (Alpha) | <0.099 | | 1.96 | 1.97 | | ug/L | | 101 | 70 - 130 | 0 | 20 |
| Endosulfan II (Beta) | <0.099 | | 1.96 | 2.06 | | ug/L | | 105 | 70 - 130 | 0 | 20 |
| Endosulfan sulfate | <0.099 | | 1.96 | 1.98 | | ug/L | | 101 | 70 - 130 | 0 | 20 |
| Endrin | <0.0099 | | 1.96 | 1.98 | | ug/L | | 101 | 70 - 130 | 2 | 20 |
| Endrin aldehyde | <0.099 | | 1.96 | 1.96 | | ug/L | | 100 | 60 - 130 | 1 | 20 |
| EPTC | <0.099 | | 1.96 | 2.01 | | ug/L | | 103 | 70 - 130 | 2 | 20 |

QC Sample Results

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

Job ID: 380-109956-1
SDG: Weekly

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

Lab Sample ID: 380-109977-C-1-A MSD
Matrix: Water
Analysis Batch: 105338

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 105141

| Analyte | Sample | Sample | Spike | MSD | MSD | Unit | D | %Rec | %Rec | RPD | RPD |
|-------------------------------|---------|-----------|-------|--------|-----------|------|---|------|----------|-----|-----|
| | Result | Qualifier | Added | Result | Qualifier | | | | Limits | | |
| Fluoranthene | <0.099 | | 1.96 | 2.18 | | ug/L | | 111 | 70 - 130 | 0 | 20 |
| Fluorene | <0.050 | | 1.96 | 2.03 | | ug/L | | 104 | 70 - 130 | 1 | 20 |
| gamma-Chlordane | <0.050 | | 1.96 | 2.08 | | ug/L | | 106 | 70 - 130 | 2 | 20 |
| Heptachlor | <0.0099 | | 1.96 | 1.96 | | ug/L | | 100 | 70 - 130 | 1 | 20 |
| Heptachlor epoxide (isomer B) | <0.0099 | | 1.96 | 2.35 | | ug/L | | 120 | 70 - 130 | 0 | 20 |
| Hexachlorobenzene | <0.050 | | 1.96 | 1.97 | | ug/L | | 100 | 70 - 130 | 1 | 20 |
| Hexachlorocyclopentadiene | <0.050 | | 1.96 | 1.51 | | ug/L | | 77 | 70 - 130 | 2 | 20 |
| Indeno[1,2,3-cd]pyrene | <0.050 | | 1.96 | 2.00 | | ug/L | | 102 | 70 - 130 | 2 | 20 |
| Isophorone | <0.099 | | 1.96 | 1.92 | | ug/L | | 98 | 70 - 130 | 1 | 20 |
| Lindane | <0.0099 | | 1.96 | 1.85 | | ug/L | | 94 | 70 - 130 | 1 | 20 |
| Malathion | <0.099 | | 1.96 | 2.07 | | ug/L | | 106 | 70 - 130 | 0 | 20 |
| Methoxychlor | <0.050 | ^3+ | 1.96 | 1.95 | | ug/L | | 99 | 70 - 130 | 3 | 20 |
| Metolachlor | <0.050 | | 1.96 | 2.23 | | ug/L | | 114 | 70 - 130 | 1 | 20 |
| Molinate | <0.099 | | 1.96 | 2.08 | | ug/L | | 106 | 70 - 130 | 2 | 20 |
| Naphthalene | <0.099 | | 1.96 | 1.84 | | ug/L | | 94 | 70 - 130 | 0 | 20 |
| Parathion | <0.099 | | 1.96 | 2.16 | | ug/L | | 110 | 70 - 130 | 5 | 20 |
| Pendimethalin (Penoxaline) | <0.099 | | 1.96 | 2.04 | | ug/L | | 104 | 70 - 130 | 1 | 20 |
| Phenanthrene | <0.040 | | 1.96 | 1.90 | | ug/L | | 97 | 70 - 130 | 1 | 20 |
| Propachlor | <0.050 | | 1.96 | 2.11 | | ug/L | | 108 | 70 - 130 | 2 | 20 |
| Pyrene | <0.050 | | 1.96 | 1.95 | | ug/L | | 100 | 70 - 130 | 1 | 20 |
| Simazine | <0.050 | | 1.96 | 1.96 | | ug/L | | 100 | 70 - 130 | 2 | 20 |
| Terbacil | <0.099 | | 1.96 | 2.10 | | ug/L | | 107 | 70 - 130 | 2 | 20 |
| Terbutylazine | <0.099 | | 1.96 | 1.97 | | ug/L | | 101 | 70 - 130 | 1 | 20 |
| Thiobencarb | <0.099 | | 1.96 | 2.20 | | ug/L | | 112 | 70 - 130 | 0 | 20 |
| trans-Nonachlor | <0.050 | | 1.96 | 2.06 | | ug/L | | 105 | 70 - 130 | 1 | 20 |
| Trifluralin | <0.099 | | 1.96 | 2.03 | | ug/L | | 104 | 70 - 130 | 1 | 20 |

| Surrogate | MSD | MSD | Limits |
|--------------------|-----------|-----------|----------|
| | %Recovery | Qualifier | |
| 2-Nitro-m-xylene | 97 | | 70 - 130 |
| Perylene-d12 | 102 | | 70 - 130 |
| Triphenylphosphate | 114 | | 70 - 130 |

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

Lab Sample ID: MB 570-474932/11
Matrix: Water
Analysis Batch: 474932

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

| Analyte | MB | MB | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------|--------|-----------|----|------|---|----------|----------------|---------|
| | Result | Qualifier | | | | | | |
| GRO (C6-C10) | <10 | | 10 | ug/L | | | 08/27/24 18:00 | 1 |

| Surrogate | MB | MB | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------|----------------|---------|
| | %Recovery | Qualifier | | | | |
| 4-Bromofluorobenzene (Surr) | 90 | | 38 - 134 | | 08/27/24 18:00 | 1 |

QC Sample Results

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

Job ID: 380-109956-1
SDG: Weekly

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

Lab Sample ID: LCS 570-474932/1008
Matrix: Water
Analysis Batch: 474932

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 | 417 | | ug/L | | 104 | 78 - 120 |
| Surrogate | | LCS %Recovery | LCS Qualifier | | | | Limits |
| 4-Bromofluorobenzene (Surr) | | 88 | | | | | 38 - 134 |

Lab Sample ID: LCSD 570-474932/9
Matrix: Water
Analysis Batch: 474932

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 | 404 | | ug/L | | 101 | 78 - 120 | 3 | 10 |
| Surrogate | | LCSD %Recovery | LCSD Qualifier | | | | Limits | | |
| 4-Bromofluorobenzene (Surr) | | 93 | | | | | 38 - 134 | | |

Lab Sample ID: MRL 570-474932/10
Matrix: Water
Analysis Batch: 474932

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 | 10.5 | | ug/L | | 105 | 50 - 150 |
| Surrogate | | MRL %Recovery | MRL Qualifier | | | | Limits |
| 4-Bromofluorobenzene (Surr) | | 90 | | | | | 38 - 134 |

Lab Sample ID: 380-109664-B-3 MS
Matrix: Water
Analysis Batch: 474932

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

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------------------------------|---------------|---------------------|-------------|---------------------|--------------|------|---|------|---------------|
| Gasoline Range Organics (C4-C13) | <10 | | 400 | 391 | | ug/L | | 98 | 68 - 122 |
| Surrogate | | MS %Recovery | | MS Qualifier | | | | | Limits |
| 4-Bromofluorobenzene (Surr) | | 86 | | | | | | | 38 - 134 |

Lab Sample ID: 380-109664-B-3 MSD
Matrix: Water
Analysis Batch: 474932

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

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|----------------------------------|---------------|------------------|-------------|------------|---------------|------|---|------|-------------|-----|-----------|
| Gasoline Range Organics (C4-C13) | <10 | | 400 | 385 | | ug/L | | 96 | 68 - 122 | 2 | 18 |

QC Sample Results

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

Job ID: 380-109956-1
SDG: Weekly

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

Lab Sample ID: 380-109664-B-3 MSD
Matrix: Water
Analysis Batch: 474932

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

| <i>Surrogate</i> | <i>MSD</i> | <i>MSD</i> | <i>Limits</i> |
|-----------------------------|------------------|------------------|---------------|
| | <i>%Recovery</i> | <i>Qualifier</i> | |
| 4-Bromofluorobenzene (Surr) | 92 | | 38 - 134 |

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QC Association Summary

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

Job ID: 380-109956-1
SDG: Weekly

GC/MS Semi VOA

Prep Batch: 105141

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|----------------------|---------------------------|-----------|--------|--------|------------|
| 380-109956-1 | Halawa Shaft Viewing Pool | Total/NA | Water | 525.2 | |
| MB 380-105141/21-A | Method Blank | Total/NA | Water | 525.2 | |
| LCS 380-105141/23-A | Lab Control Sample | Total/NA | Water | 525.2 | |
| MRL 380-105141/22-A | Lab Control Sample | Total/NA | Water | 525.2 | |
| 380-109977-B-1-A MS | Matrix Spike | Total/NA | Water | 525.2 | |
| 380-109977-C-1-A MSD | Matrix Spike Duplicate | Total/NA | Water | 525.2 | |

Analysis Batch: 105338

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|----------------------|---------------------------|-----------|--------|--------|------------|
| 380-109956-1 | Halawa Shaft Viewing Pool | Total/NA | Water | 525.2 | 105141 |
| MB 380-105141/21-A | Method Blank | Total/NA | Water | 525.2 | 105141 |
| LCS 380-105141/23-A | Lab Control Sample | Total/NA | Water | 525.2 | 105141 |
| MRL 380-105141/22-A | Lab Control Sample | Total/NA | Water | 525.2 | 105141 |
| 380-109977-B-1-A MS | Matrix Spike | Total/NA | Water | 525.2 | 105141 |
| 380-109977-C-1-A MSD | Matrix Spike Duplicate | Total/NA | Water | 525.2 | 105141 |

GC VOA

Analysis Batch: 474932

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|---------------------------|-----------|--------|--------------|------------|
| 380-109956-1 | Halawa Shaft Viewing Pool | Total/NA | Water | 8015B GRO LL | |
| 380-109956-2 | TRAVEL BLANK | Total/NA | Water | 8015B GRO LL | |
| MB 570-474932/11 | Method Blank | Total/NA | Water | 8015B GRO LL | |
| LCS 570-474932/1008 | Lab Control Sample | Total/NA | Water | 8015B GRO LL | |
| LCSD 570-474932/9 | Lab Control Sample Dup | Total/NA | Water | 8015B GRO LL | |
| MRL 570-474932/10 | Lab Control Sample | Total/NA | Water | 8015B GRO LL | |
| 380-109664-B-3 MS | Matrix Spike | Total/NA | Water | 8015B GRO LL | |
| 380-109664-B-3 MSD | Matrix Spike Duplicate | Total/NA | Water | 8015B GRO LL | |

Lab Chronicle

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

Job ID: 380-109956-1
SDG: Weekly

Client Sample ID: Halawa Shaft Viewing Pool

Lab Sample ID: 380-109956-1

Date Collected: 08/20/24 09:40

Matrix: Water

Date Received: 08/22/24 09:53

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|-----------|----------------------|
| Total/NA | Prep | 525.2 | | | 105141 | IQ42 | EA POM | 08/23/24 16:20 |
| Total/NA | Analysis | 525.2 | | 1 | 105338 | UPAC | EA POM | 08/26/24 15:36 |
| Total/NA | Analysis | 8015B GRO LL | | 1 | 474932 | GC3Z | EET CAL 4 | 08/28/24 01:34 |

Client Sample ID: TRAVEL BLANK

Lab Sample ID: 380-109956-2

Date Collected: 08/20/24 09:40

Matrix: Water

Date Received: 08/22/24 09:53

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|-----------|----------------------|
| Total/NA | Analysis | 8015B GRO LL | | 1 | 474932 | GC3Z | EET CAL 4 | 08/27/24 21:41 |

Laboratory References:

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

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

Accreditation/Certification Summary

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

Job ID: 380-109956-1
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 |
| <p>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.</p> | | | |
| Analysis Method | Prep Method | Matrix | Analyte |
| 525.2 | 525.2 | Water | 1-Methylnaphthalene |
| 525.2 | 525.2 | Water | 2,4'-DDD |
| 525.2 | 525.2 | Water | 2,4'-DDE |
| 525.2 | 525.2 | Water | 2,4'-DDT |
| 525.2 | 525.2 | Water | 2,4-Dinitrotoluene |
| 525.2 | 525.2 | Water | 2,6-Dinitrotoluene |
| 525.2 | 525.2 | Water | 2-Methylnaphthalene |
| 525.2 | 525.2 | Water | 4,4'-DDD |
| 525.2 | 525.2 | Water | 4,4'-DDE |
| 525.2 | 525.2 | Water | 4,4' DDT |
| 525.2 | 525.2 | Water | Acetochlor |
| 525.2 | 525.2 | Water | alpha-BHC |
| 525.2 | 525.2 | Water | alpha-Chlordane |
| 525.2 | 525.2 | Water | beta-BHC |
| 525.2 | 525.2 | Water | Chlorobenzilate |
| 525.2 | 525.2 | Water | Chloroneb |
| 525.2 | 525.2 | Water | Chlorothalonil (Draconil, Bravo) |
| 525.2 | 525.2 | Water | Chlorpyrifos |
| 525.2 | 525.2 | Water | delta-BHC |
| 525.2 | 525.2 | Water | Diclorvos (DDVP) |
| 525.2 | 525.2 | Water | Endosulfan I (Alpha) |
| 525.2 | 525.2 | Water | Endosulfan II (Beta) |
| 525.2 | 525.2 | Water | Endosulfan sulfate |
| 525.2 | 525.2 | Water | Endrin aldehyde |
| 525.2 | 525.2 | Water | EPTC |
| 525.2 | 525.2 | Water | gamma-Chlordane |
| 525.2 | 525.2 | Water | Isophorone |
| 525.2 | 525.2 | Water | Malathion |
| 525.2 | 525.2 | Water | Parathion |
| 525.2 | 525.2 | Water | Pendimethalin (Penoxaline) |
| 525.2 | 525.2 | Water | Terbacil |
| 525.2 | 525.2 | Water | Terbutylazine |
| 525.2 | 525.2 | Water | Total Permethrin (mixed isomers) |
| 525.2 | 525.2 | Water | trans-Nonachlor |

Laboratory: Eurofins Calscience

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

| Authority | Program | Identification Number | Expiration Date |
|--------------|---|-----------------------|-----------------|
| Arizona | State | AZ0830 | 11-16-24 |
| Arkansas DEQ | State | 88-0161 | 07-02-25 |
| California | Los Angeles County Sanitation Districts | 9257304 | 08-01-24 * |
| California | State | 3082 | 07-31-26 |
| Kansas | NELAP | E-10420 | 07-31-25 |
| Nevada | State | CA00111 | 09-12-24 |

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

Accreditation/Certification Summary

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

Job ID: 380-109956-1
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 |
|------------|---------------------|-----------------------|-----------------|
| Oregon | NELAP | 4175 | 02-02-25 |
| USDA | US Federal Programs | P330-22-00059 | 06-08-26 |
| Washington | State | C916-18 | 10-11-24 |

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Method Summary

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

Job ID: 380-109956-1
SDG: Weekly

| Method | Method Description | Protocol | Laboratory |
|--------------|--|----------|------------|
| 525.2 | Semivolatile Organic Compounds (GC/MS) | EPA | EA POM |
| 8015B GRO LL | Gasoline Range Organics - (GC) | SW846 | EET CAL 4 |
| 5030C | Purge and Trap | SW846 | EET CAL 4 |
| 525.2 | Extraction of Semivolatile Compounds | EPA | EA POM |

Protocol References:

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: 380-109956-1
SDG: Weekly

| <u>Lab Sample ID</u> | <u>Client Sample ID</u> | <u>Matrix</u> | <u>Collected</u> | <u>Received</u> |
|----------------------|---------------------------|---------------|------------------|-----------------|
| 380-109956-1 | Halawa Shaft Viewing Pool | Water | 08/20/24 09:40 | 08/22/24 09:53 |
| 380-109956-2 | TRAVEL BLANK | Water | 08/20/24 09:40 | 08/22/24 09:53 |

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Chain of Custody Record



| | | | | | |
|--|--|--|--|-------------------------|--|
| Client Information (Sub Contract Lab) | | Lab PM: Arada, Rachelle | | Carrier Tracking No(s): | |
| Shipping/Receiving | | E-Mail: Rachelle.Arada@et.eurofins.com | | State of Origin: Hawaii | |
| Company: Eurofins Environment Testing Southwest, | | Accreditations Required (See note): State Hawaii | | COC No: 380-148190.1 | |
| Address: 2841 Dow Avenue, Suite 100, | | Due Date Requested: 9/12/2024 | | Page: Page 1 of 1 | |
| City: Tustin | | TAT Requested (days): | | Job #: 380-109956-1 | |
| State, Zip: CA, 92780 | | PO #: | | Preservation Codes: | |
| Phone: 714-895-5494(Te) | | WO #: | | Other: | |
| Email: | | Project #: 38001111 | | | |
| Project Name: RED-HILL | | SOW#: | | | |
| Site: Honolulu BWS Sites | | | | | |

| Sample Identification | Client ID (Lab ID) | Sample Date | Sample Time | Sample Type (C=Comp, G=grab) | Matrix (W=Water, S=Sediment, O=Organic) | Field Filtered Sample (Yes or No) | Reform MSMSD (Yes or No) | 80158_ORO_LL_C3810C_LL_HNL Ranges: C10 | C24/C24-C36/C8-C18 | 80158_GRO_LL6030C (MOD) GRO | 625.1_S1M/25_Prep (MOD) Extended PAH List | 625.1/625_Prep (MOD) Tentatively Identified Compounds (Hold) | Analysis Requested | Total Number of Containers | Special Instructions/Note: |
|----------------------------|--------------------|-------------|----------------|------------------------------|---|-----------------------------------|--------------------------|--|--------------------|-----------------------------|---|--|--------------------|----------------------------|---|
| Halaiva Shaft Viewing Pool | 380-109956-1 | 8/20/24 | 08:40 Hawaiian | G | Water | X | X | X | X | X | X | X | | 7 | Initial volume (500ml) and final volume (2ml). MRLs are needed. |
| TRAVEL BLANK | 380-109956-2 | 8/20/24 | 08:40 Hawaiian | G | Water | | | | | X | | | | 2 | MRLs are needed. |

380-109956 Chain of Custody

Note: Since laboratory accreditations are subject to change, Eurofins Eaton Analytical, LLC places the ownership of method, analyze & 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
 Return To Client
 Disposal By Lab
 Archive For Months

Deliverable Requested: I II III, IV Other (specify) Primary Deliverable Rank: 2

Empty Kit Relinquished by: _____ Date: _____ Time: _____ Method of Shipment: _____

Relinquished by: *[Signature]* Date/Time: 8/23/24 10:40 Company: *[Signature]* Company
 Relinquished by: _____ Date/Time: _____ Company
 Relinquished by: _____ Date/Time: _____ Company

Custody Seals Intact: Yes No Cooler Temperature(s) °C and Other Remarks: 17/17 5gr



Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-109956-1

SDG Number: Weekly

Login Number: 109956

List Source: Eurofins Eaton Analytical Pomona

List Number: 1

Creator: Gerfen, Chris

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



Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-109956-1

SDG Number: Weekly

Login Number: 109956

List Number: 2

Creator: Khana, Piyush

List Source: Eurofins Calscience

List Creation: 08/23/24 03:37 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 | 1.7 |
| 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 <math><6\text{mm}</math> (1/4"). | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | False | |

