

| |
|----|
| 1 |
| 2 |
| 3 |
| 4 |
| 5 |
| 6 |
| 7 |
| 8 |
| 9 |
| 10 |
| 11 |
| 12 |
| 13 |
| 14 |
| 15 |
| 16 |
| 17 |

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
525.2, 533, 537.1

JOB NUMBER

380-96902-1

Eurofins Eaton Analytical Pomona

Job Notes

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

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

Compliance Statement

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

Authorization



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Authorized for release by
Rachelle Arada, Project Manager
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 | 25 |
| Surrogate Summary | 29 |
| Isotope Dilution Summary | 30 |
| QC Sample Results | 31 |
| QC Association Summary | 53 |
| Lab Chronicle | 55 |
| Certification Summary | 57 |
| Method Summary | 58 |
| Sample Summary | 59 |
| Chain of Custody | 60 |
| Receipt Checklists | 61 |

Definitions/Glossary

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

Job ID: 380-96902-1
SDG: 525.2, 533, 537.1

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. |

LCMS

| 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. |

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: 380-96902-1

Job ID: 380-96902-1

Eurofins Eaton Analytical Pomona

Job Narrative 380-96902-1

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 are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample 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 5/22/2024 10:34 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 1.3°C.

GC/MS Semi VOA

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

PFAS

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: 380-96902-1
SDG: 525.2, 533, 537.1

Client Sample ID: MOANALUA WELLS

Lab Sample ID: 380-96902-1

No Detections.

Client Sample ID: AIEA GULCH WELLS PUMP 2

Lab Sample ID: 380-96902-2

No Detections.

Client Sample ID: AIEA WELLS PUMPS 1&2 (260) P2

Lab Sample ID: 380-96902-3

No Detections.

Client Sample ID: HALAWA WELLS UNITS 1&2 P1

Lab Sample ID: 380-96902-4

| Analyte | Result | Qualifier | RL | Unit | Dil Fac | D | Method | Prep Type |
|--------------------------------------|--------|-----------|-----|------|---------|---|--------|-----------|
| Perfluorooctanesulfonic acid (PFOS) | 2.1 | | 2.0 | ng/L | 1 | | 537.1 | Total/NA |
| Perfluorohexanesulfonic acid (PFHxS) | 2.3 | | 2.0 | ng/L | 1 | | 537.1 | Total/NA |

Client Sample ID: FB: MOANALUA WELLS

Lab Sample ID: 380-96902-5

No Detections.

Client Sample ID: FB: AIEA GULCH WELLS PUMP 2

Lab Sample ID: 380-96902-6

No Detections.

Client Sample ID: FB: AIEA WELLS PUMPS 1&2 (260) P2

Lab Sample ID: 380-96902-7

No Detections.

Client Sample ID: FB: HALAWA WELLS UNITS 1&2 P1

Lab Sample ID: 380-96902-8

No Detections.

This Detection Summary does not include radiochemical test results.

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Client Sample Results

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

Job ID: 380-96902-1
SDG: 525.2, 533, 537.1

Client Sample ID: MOANALUA WELLS

Lab Sample ID: 380-96902-1

Date Collected: 05/20/24 10:09

Matrix: Water

Date Received: 05/22/24 10:34

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 | | 05/29/24 09:15 | 05/30/24 13:09 | 1 |
| 2,4'-DDD | <0.097 | | 0.097 | ug/L | | 05/29/24 09:15 | 05/30/24 13:09 | 1 |
| 2,4'-DDE | <0.097 | | 0.097 | ug/L | | 05/29/24 09:15 | 05/30/24 13:09 | 1 |
| 2,4'-DDT | <0.097 | | 0.097 | ug/L | | 05/29/24 09:15 | 05/30/24 13:09 | 1 |
| 2,4-Dinitrotoluene | <0.097 | | 0.097 | ug/L | | 05/29/24 09:15 | 05/30/24 13:09 | 1 |
| 2,6-Dinitrotoluene | <0.097 | | 0.097 | ug/L | | 05/29/24 09:15 | 05/30/24 13:09 | 1 |
| 2-Methylnaphthalene | <0.097 | | 0.097 | ug/L | | 05/29/24 09:15 | 05/30/24 13:09 | 1 |
| 4,4'-DDD | <0.097 | | 0.097 | ug/L | | 05/29/24 09:15 | 05/30/24 13:09 | 1 |
| 4,4'-DDE | <0.097 | | 0.097 | ug/L | | 05/29/24 09:15 | 05/30/24 13:09 | 1 |
| 4,4'-DDT | <0.097 | | 0.097 | ug/L | | 05/29/24 09:15 | 05/30/24 13:09 | 1 |
| Acenaphthene | <0.097 | | 0.097 | ug/L | | 05/29/24 09:15 | 05/30/24 13:09 | 1 |
| Acenaphthylene | <0.097 | | 0.097 | ug/L | | 05/29/24 09:15 | 05/30/24 13:09 | 1 |
| Acetochlor | <0.097 | | 0.097 | ug/L | | 05/29/24 09:15 | 05/30/24 13:09 | 1 |
| Alachlor | <0.049 | | 0.049 | ug/L | | 05/29/24 09:15 | 05/30/24 13:09 | 1 |
| alpha-BHC | <0.097 | | 0.097 | ug/L | | 05/29/24 09:15 | 05/30/24 13:09 | 1 |
| alpha-Chlordane | <0.049 | | 0.049 | ug/L | | 05/29/24 09:15 | 05/30/24 13:09 | 1 |
| Anthracene | <0.019 | F1 | 0.019 | ug/L | | 05/29/24 09:15 | 05/30/24 13:09 | 1 |
| Atrazine | <0.049 | | 0.049 | ug/L | | 05/29/24 09:15 | 05/30/24 13:09 | 1 |
| Benz(a)anthracene | <0.049 | | 0.049 | ug/L | | 05/29/24 09:15 | 05/30/24 13:09 | 1 |
| Benzo[a]pyrene | <0.019 | | 0.019 | ug/L | | 05/29/24 09:15 | 05/30/24 13:09 | 1 |
| Benzo[b]fluoranthene | <0.019 | | 0.019 | ug/L | | 05/29/24 09:15 | 05/30/24 13:09 | 1 |
| Benzo[g,h,i]perylene | <0.049 | | 0.049 | ug/L | | 05/29/24 09:15 | 05/30/24 13:09 | 1 |
| Benzo[k]fluoranthene | <0.019 | | 0.019 | ug/L | | 05/29/24 09:15 | 05/30/24 13:09 | 1 |
| beta-BHC | <0.097 | | 0.097 | ug/L | | 05/29/24 09:15 | 05/30/24 13:09 | 1 |
| Bis(2-ethylhexyl) phthalate | <0.58 | | 0.58 | ug/L | | 05/29/24 09:15 | 05/30/24 13:09 | 1 |
| Bromacil | <0.097 | | 0.097 | ug/L | | 05/29/24 09:15 | 05/30/24 13:09 | 1 |
| Butachlor | <0.049 | | 0.049 | ug/L | | 05/29/24 09:15 | 05/30/24 13:09 | 1 |
| Butylbenzylphthalate | <0.49 | | 0.49 | ug/L | | 05/29/24 09:15 | 05/30/24 13:09 | 1 |
| Chlorobenzilate | <0.097 | | 0.097 | ug/L | | 05/29/24 09:15 | 05/30/24 13:09 | 1 |
| Chloroneb | <0.097 | | 0.097 | ug/L | | 05/29/24 09:15 | 05/30/24 13:09 | 1 |
| Chlorothalonil (Draconil, Bravo) | <0.097 | | 0.097 | ug/L | | 05/29/24 09:15 | 05/30/24 13:09 | 1 |
| Chlorpyrifos | <0.049 | | 0.049 | ug/L | | 05/29/24 09:15 | 05/30/24 13:09 | 1 |
| Chrysene | <0.019 | | 0.019 | ug/L | | 05/29/24 09:15 | 05/30/24 13:09 | 1 |
| delta-BHC | <0.097 | | 0.097 | ug/L | | 05/29/24 09:15 | 05/30/24 13:09 | 1 |
| Di(2-ethylhexyl)adipate | <0.58 | | 0.58 | ug/L | | 05/29/24 09:15 | 05/30/24 13:09 | 1 |
| Dibenz(a,h)anthracene | <0.049 | | 0.049 | ug/L | | 05/29/24 09:15 | 05/30/24 13:09 | 1 |
| Diclorvos (DDVP) | <0.049 | | 0.049 | ug/L | | 05/29/24 09:15 | 05/30/24 13:09 | 1 |
| Dieldrin | <0.19 | | 0.19 | ug/L | | 05/29/24 09:15 | 05/30/24 13:09 | 1 |
| Diethylphthalate | <0.49 | | 0.49 | ug/L | | 05/29/24 09:15 | 05/30/24 13:09 | 1 |
| Dimethylphthalate | <0.49 | | 0.49 | ug/L | | 05/29/24 09:15 | 05/30/24 13:09 | 1 |
| Di-n-butyl phthalate | <0.97 | | 0.97 | ug/L | | 05/29/24 09:15 | 05/30/24 13:09 | 1 |
| Di-n-octyl phthalate | <0.097 | | 0.097 | ug/L | | 05/29/24 09:15 | 05/30/24 13:09 | 1 |
| Endosulfan I (Alpha) | <0.097 | | 0.097 | ug/L | | 05/29/24 09:15 | 05/30/24 13:09 | 1 |
| Endosulfan II (Beta) | <0.097 | | 0.097 | ug/L | | 05/29/24 09:15 | 05/30/24 13:09 | 1 |
| Endosulfan sulfate | <0.097 | | 0.097 | ug/L | | 05/29/24 09:15 | 05/30/24 13:09 | 1 |
| Endrin | <0.097 | | 0.097 | ug/L | | 05/29/24 09:15 | 05/30/24 13:09 | 1 |
| Endrin aldehyde | <0.097 | | 0.097 | ug/L | | 05/29/24 09:15 | 05/30/24 13:09 | 1 |
| EPTC | <0.097 | | 0.097 | ug/L | | 05/29/24 09:15 | 05/30/24 13:09 | 1 |
| Fluoranthene | <0.097 | | 0.097 | ug/L | | 05/29/24 09:15 | 05/30/24 13:09 | 1 |

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Client Sample Results

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

Job ID: 380-96902-1
SDG: 525.2, 533, 537.1

Client Sample ID: MOANALUA WELLS

Lab Sample ID: 380-96902-1

Date Collected: 05/20/24 10:09

Matrix: Water

Date Received: 05/22/24 10:34

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 | | 05/29/24 09:15 | 05/30/24 13:09 | 1 |
| gamma-Chlordane | <0.049 | | 0.049 | ug/L | | 05/29/24 09:15 | 05/30/24 13:09 | 1 |
| Heptachlor | <0.039 | | 0.039 | ug/L | | 05/29/24 09:15 | 05/30/24 13:09 | 1 |
| Heptachlor epoxide (isomer B) | <0.049 | | 0.049 | ug/L | | 05/29/24 09:15 | 05/30/24 13:09 | 1 |
| Hexachlorobenzene | <0.049 | | 0.049 | ug/L | | 05/29/24 09:15 | 05/30/24 13:09 | 1 |
| Hexachlorocyclopentadiene | <0.049 | | 0.049 | ug/L | | 05/29/24 09:15 | 05/30/24 13:09 | 1 |
| Indeno[1,2,3-cd]pyrene | <0.049 | | 0.049 | ug/L | | 05/29/24 09:15 | 05/30/24 13:09 | 1 |
| Isophorone | <0.49 | | 0.49 | ug/L | | 05/29/24 09:15 | 05/30/24 13:09 | 1 |
| Lindane | <0.039 | | 0.039 | ug/L | | 05/29/24 09:15 | 05/30/24 13:09 | 1 |
| Malathion | <0.097 | | 0.097 | ug/L | | 05/29/24 09:15 | 05/30/24 13:09 | 1 |
| Methoxychlor | <0.097 | | 0.097 | ug/L | | 05/29/24 09:15 | 05/30/24 13:09 | 1 |
| Metolachlor | <0.049 | | 0.049 | ug/L | | 05/29/24 09:15 | 05/30/24 13:09 | 1 |
| Molinate | <0.097 | | 0.097 | ug/L | | 05/29/24 09:15 | 05/30/24 13:09 | 1 |
| Naphthalene | <0.29 | | 0.29 | ug/L | | 05/29/24 09:15 | 05/30/24 13:09 | 1 |
| Parathion | <0.097 | | 0.097 | ug/L | | 05/29/24 09:15 | 05/30/24 13:09 | 1 |
| Pendimethalin (Penoxaline) | <0.097 | | 0.097 | ug/L | | 05/29/24 09:15 | 05/30/24 13:09 | 1 |
| Phenanthrene | <0.039 | | 0.039 | ug/L | | 05/29/24 09:15 | 05/30/24 13:09 | 1 |
| Propachlor | <0.049 | | 0.049 | ug/L | | 05/29/24 09:15 | 05/30/24 13:09 | 1 |
| Pyrene | <0.049 | | 0.049 | ug/L | | 05/29/24 09:15 | 05/30/24 13:09 | 1 |
| Simazine | <0.049 | | 0.049 | ug/L | | 05/29/24 09:15 | 05/30/24 13:09 | 1 |
| Terbacil | <0.097 | | 0.097 | ug/L | | 05/29/24 09:15 | 05/30/24 13:09 | 1 |
| Terbutylazine | <0.097 | | 0.097 | ug/L | | 05/29/24 09:15 | 05/30/24 13:09 | 1 |
| Thiobencarb | <0.19 | | 0.19 | ug/L | | 05/29/24 09:15 | 05/30/24 13:09 | 1 |
| Total Permethrin (mixed isomers) | <0.19 | | 0.19 | ug/L | | 05/29/24 09:15 | 05/30/24 13:09 | 1 |
| trans-Nonachlor | <0.049 | | 0.049 | ug/L | | 05/29/24 09:15 | 05/30/24 13:09 | 1 |
| Trifluralin | <0.097 | | 0.097 | ug/L | | 05/29/24 09:15 | 05/30/24 13:09 | 1 |

| Tentatively Identified Compound | Est. Result | Qualifier | Unit | D | RT | CAS No. | Prepared | Analyzed | Dil Fac |
|---------------------------------|-------------|-----------|------|---|----|---------|----------------|----------------|---------|
| Tentatively Identified Compound | None | | ug/L | | | N/A | 05/29/24 09:15 | 05/30/24 13:09 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|--------------------|-----------|-----------|----------|----------------|----------------|---------|
| 2-Nitro-m-xylene | 98 | | 70 - 130 | 05/29/24 09:15 | 05/30/24 13:09 | 1 |
| Perylene-d12 | 92 | | 70 - 130 | 05/29/24 09:15 | 05/30/24 13:09 | 1 |
| Triphenylphosphate | 106 | | 70 - 130 | 05/29/24 09:15 | 05/30/24 13:09 | 1 |

Method: EPA 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|--------|-----------|-----|------|---|----------------|----------------|---------|
| 11-Chloroeicosafiuoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 15:50 | 1 |
| 9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 15:50 | 1 |
| 4,8-Dioxa-3H-perfluorononanoic acid (ADONA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 15:50 | 1 |
| Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 15:50 | 1 |
| Perfluorobutanesulfonic acid (PFBS) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 15:50 | 1 |
| Perfluorodecanoic acid (PFDA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 15:50 | 1 |
| Perfluorododecanoic acid (PFDoA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 15:50 | 1 |
| Perfluoroheptanoic acid (PFHpA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 15:50 | 1 |
| Perfluorohexanesulfonic acid (PFHxS) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 15:50 | 1 |
| Perfluorohexanoic acid (PFHxA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 15:50 | 1 |

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Client Sample Results

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

Job ID: 380-96902-1
SDG: 525.2, 533, 537.1

Client Sample ID: MOANALUA WELLS

Lab Sample ID: 380-96902-1

Date Collected: 05/20/24 10:09

Matrix: Water

Date Received: 05/22/24 10:34

Method: EPA 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water (Continued)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|-----------|-----------|----------|------|---|----------------|----------------|---------|
| Perfluorononanoic acid (PFNA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 15:50 | 1 |
| Perfluorooctanesulfonic acid (PFOS) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 15:50 | 1 |
| Perfluorooctanoic acid (PFOA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 15:50 | 1 |
| Perfluoroundecanoic acid (PFUnA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 15:50 | 1 |
| Perfluorobutanoic acid (PFBA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 15:50 | 1 |
| 1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 15:50 | 1 |
| 1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 15:50 | 1 |
| 1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 15:50 | 1 |
| Nonafluoro-3,6-dioxaheptanoic acid (NFDHA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 15:50 | 1 |
| Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 15:50 | 1 |
| Perfluoro-3-methoxypropanoic acid (PFMPA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 15:50 | 1 |
| Perfluoro-4-methoxybutanoic acid (PFMBA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 15:50 | 1 |
| Perfluoropentanoic acid (PFPeA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 15:50 | 1 |
| Perfluoroheptanesulfonic acid (PFHpS) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 15:50 | 1 |
| Perfluoropentanesulfonic acid (PFPeS) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 15:50 | 1 |
| Isotope Dilution | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 13C3 HFPO-DA | 72 | | 50 - 200 | | | 05/23/24 10:26 | 05/24/24 15:50 | 1 |
| 13C6 PFDA | 72 | | 50 - 200 | | | 05/23/24 10:26 | 05/24/24 15:50 | 1 |
| 13C5 PFHxA | 80 | | 50 - 200 | | | 05/23/24 10:26 | 05/24/24 15:50 | 1 |
| 13C4 PFHpA | 82 | | 50 - 200 | | | 05/23/24 10:26 | 05/24/24 15:50 | 1 |
| 13C8 PFOA | 84 | | 50 - 200 | | | 05/23/24 10:26 | 05/24/24 15:50 | 1 |
| 13C9 PFNA | 78 | | 50 - 200 | | | 05/23/24 10:26 | 05/24/24 15:50 | 1 |
| 13C7 PFUnA | 68 | | 50 - 200 | | | 05/23/24 10:26 | 05/24/24 15:50 | 1 |
| 13C2 PFDoA | 71 | | 50 - 200 | | | 05/23/24 10:26 | 05/24/24 15:50 | 1 |
| 13C4 PFBA | 88 | | 50 - 200 | | | 05/23/24 10:26 | 05/24/24 15:50 | 1 |
| 13C5 PFPeA | 93 | | 50 - 200 | | | 05/23/24 10:26 | 05/24/24 15:50 | 1 |
| 13C3 PFBS | 96 | | 50 - 200 | | | 05/23/24 10:26 | 05/24/24 15:50 | 1 |
| 13C3 PFHxS | 99 | | 50 - 200 | | | 05/23/24 10:26 | 05/24/24 15:50 | 1 |
| 13C8 PFOS | 98 | | 50 - 200 | | | 05/23/24 10:26 | 05/24/24 15:50 | 1 |
| 13C2-4:2-FTS | 120 | | 50 - 200 | | | 05/23/24 10:26 | 05/24/24 15:50 | 1 |
| 13C2-6:2-FTS | 111 | | 50 - 200 | | | 05/23/24 10:26 | 05/24/24 15:50 | 1 |
| 13C2-8:2-FTS | 86 | | 50 - 200 | | | 05/23/24 10:26 | 05/24/24 15:50 | 1 |

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|--------|-----------|-----|------|---|----------------|----------------|---------|
| Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 20:16 | 1 |
| Perfluorooctanesulfonic acid (PFOS) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 20:16 | 1 |
| Perfluoroundecanoic acid (PFUnA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 20:16 | 1 |
| N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 20:16 | 1 |
| N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 20:16 | 1 |

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-96902-1
SDG: 525.2, 533, 537.1

Client Sample ID: MOANALUA WELLS

Lab Sample ID: 380-96902-1

Date Collected: 05/20/24 10:09

Matrix: Water

Date Received: 05/22/24 10:34

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|-----------|-----------|----------|------|---|----------------|----------------|---------|
| Perfluorohexanoic acid (PFHxA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 20:16 | 1 |
| Perfluorododecanoic acid (PFDoA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 20:16 | 1 |
| Perfluorooctanoic acid (PFOA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 20:16 | 1 |
| Perfluorodecanoic acid (PFDA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 20:16 | 1 |
| Perfluorohexanesulfonic acid (PFHxS) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 20:16 | 1 |
| Perfluorobutanesulfonic acid (PFBS) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 20:16 | 1 |
| Perfluoroheptanoic acid (PFHpA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 20:16 | 1 |
| Perfluorononanoic acid (PFNA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 20:16 | 1 |
| Perfluorotetradecanoic acid (PFTA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 20:16 | 1 |
| Perfluorotridecanoic acid (PFTrDA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 20:16 | 1 |
| 9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 20:16 | 1 |
| 11-Chloroeicosafuoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 20:16 | 1 |
| 4,8-Dioxa-3H-perfluorononanoic acid (ADONA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 20:16 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| d5-NEtFOSAA | 101 | | 70 - 130 | | | 05/23/24 10:15 | 05/24/24 20:16 | 1 |
| 13C2 PFHxA | 106 | | 70 - 130 | | | 05/23/24 10:15 | 05/24/24 20:16 | 1 |
| 13C2 PFDA | 109 | | 70 - 130 | | | 05/23/24 10:15 | 05/24/24 20:16 | 1 |
| 13C3-GenX | 96 | | 70 - 130 | | | 05/23/24 10:15 | 05/24/24 20:16 | 1 |

Client Sample ID: AIEA GULCH WELLS PUMP 2

Lab Sample ID: 380-96902-2

Date Collected: 05/20/24 11:01

Matrix: Water

Date Received: 05/22/24 10:34

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 | | 05/29/24 09:15 | 05/30/24 13:29 | 1 |
| 2,4'-DDD | <0.097 | | 0.097 | ug/L | | 05/29/24 09:15 | 05/30/24 13:29 | 1 |
| 2,4'-DDE | <0.097 | | 0.097 | ug/L | | 05/29/24 09:15 | 05/30/24 13:29 | 1 |
| 2,4'-DDT | <0.097 | | 0.097 | ug/L | | 05/29/24 09:15 | 05/30/24 13:29 | 1 |
| 2,4-Dinitrotoluene | <0.097 | | 0.097 | ug/L | | 05/29/24 09:15 | 05/30/24 13:29 | 1 |
| 2,6-Dinitrotoluene | <0.097 | | 0.097 | ug/L | | 05/29/24 09:15 | 05/30/24 13:29 | 1 |
| 2-Methylnaphthalene | <0.097 | | 0.097 | ug/L | | 05/29/24 09:15 | 05/30/24 13:29 | 1 |
| 4,4'-DDD | <0.097 | | 0.097 | ug/L | | 05/29/24 09:15 | 05/30/24 13:29 | 1 |
| 4,4'-DDE | <0.097 | | 0.097 | ug/L | | 05/29/24 09:15 | 05/30/24 13:29 | 1 |
| 4,4'-DDT | <0.097 | | 0.097 | ug/L | | 05/29/24 09:15 | 05/30/24 13:29 | 1 |
| Acenaphthene | <0.097 | | 0.097 | ug/L | | 05/29/24 09:15 | 05/30/24 13:29 | 1 |
| Acenaphthylene | <0.097 | | 0.097 | ug/L | | 05/29/24 09:15 | 05/30/24 13:29 | 1 |
| Acetochlor | <0.097 | | 0.097 | ug/L | | 05/29/24 09:15 | 05/30/24 13:29 | 1 |
| Alachlor | <0.049 | | 0.049 | ug/L | | 05/29/24 09:15 | 05/30/24 13:29 | 1 |
| alpha-BHC | <0.097 | | 0.097 | ug/L | | 05/29/24 09:15 | 05/30/24 13:29 | 1 |
| alpha-Chlordane | <0.049 | | 0.049 | ug/L | | 05/29/24 09:15 | 05/30/24 13:29 | 1 |
| Anthracene | <0.019 | | 0.019 | ug/L | | 05/29/24 09:15 | 05/30/24 13:29 | 1 |
| Atrazine | <0.049 | | 0.049 | ug/L | | 05/29/24 09:15 | 05/30/24 13:29 | 1 |
| Benz(a)anthracene | <0.049 | | 0.049 | ug/L | | 05/29/24 09:15 | 05/30/24 13:29 | 1 |
| Benzo[a]pyrene | <0.019 | | 0.019 | ug/L | | 05/29/24 09:15 | 05/30/24 13:29 | 1 |
| Benzo[b]fluoranthene | <0.019 | | 0.019 | ug/L | | 05/29/24 09:15 | 05/30/24 13:29 | 1 |
| Benzo[g,h,i]perylene | <0.049 | | 0.049 | ug/L | | 05/29/24 09:15 | 05/30/24 13:29 | 1 |

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-96902-1
SDG: 525.2, 533, 537.1

Client Sample ID: AIEA GULCH WELLS PUMP 2

Lab Sample ID: 380-96902-2

Date Collected: 05/20/24 11:01

Matrix: Water

Date Received: 05/22/24 10:34

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------------------|--------|-----------|-------|------|---|----------------|----------------|---------|
| Benzo[k]fluoranthene | <0.019 | | 0.019 | ug/L | | 05/29/24 09:15 | 05/30/24 13:29 | 1 |
| beta-BHC | <0.097 | | 0.097 | ug/L | | 05/29/24 09:15 | 05/30/24 13:29 | 1 |
| Bis(2-ethylhexyl) phthalate | <0.58 | | 0.58 | ug/L | | 05/29/24 09:15 | 05/30/24 13:29 | 1 |
| Bromacil | <0.097 | | 0.097 | ug/L | | 05/29/24 09:15 | 05/30/24 13:29 | 1 |
| Butachlor | <0.049 | | 0.049 | ug/L | | 05/29/24 09:15 | 05/30/24 13:29 | 1 |
| Butylbenzylphthalate | <0.49 | | 0.49 | ug/L | | 05/29/24 09:15 | 05/30/24 13:29 | 1 |
| Chlorobenzilate | <0.097 | | 0.097 | ug/L | | 05/29/24 09:15 | 05/30/24 13:29 | 1 |
| Chloroneb | <0.097 | | 0.097 | ug/L | | 05/29/24 09:15 | 05/30/24 13:29 | 1 |
| Chlorothalonil (Draconil, Bravo) | <0.097 | | 0.097 | ug/L | | 05/29/24 09:15 | 05/30/24 13:29 | 1 |
| Chlorpyrifos | <0.049 | | 0.049 | ug/L | | 05/29/24 09:15 | 05/30/24 13:29 | 1 |
| Chrysene | <0.019 | | 0.019 | ug/L | | 05/29/24 09:15 | 05/30/24 13:29 | 1 |
| delta-BHC | <0.097 | | 0.097 | ug/L | | 05/29/24 09:15 | 05/30/24 13:29 | 1 |
| Di(2-ethylhexyl)adipate | <0.58 | | 0.58 | ug/L | | 05/29/24 09:15 | 05/30/24 13:29 | 1 |
| Dibenz(a,h)anthracene | <0.049 | | 0.049 | ug/L | | 05/29/24 09:15 | 05/30/24 13:29 | 1 |
| Diclorvos (DDVP) | <0.049 | | 0.049 | ug/L | | 05/29/24 09:15 | 05/30/24 13:29 | 1 |
| Dieldrin | <0.19 | | 0.19 | ug/L | | 05/29/24 09:15 | 05/30/24 13:29 | 1 |
| Diethylphthalate | <0.49 | | 0.49 | ug/L | | 05/29/24 09:15 | 05/30/24 13:29 | 1 |
| Dimethylphthalate | <0.49 | | 0.49 | ug/L | | 05/29/24 09:15 | 05/30/24 13:29 | 1 |
| Di-n-butyl phthalate | <0.97 | | 0.97 | ug/L | | 05/29/24 09:15 | 05/30/24 13:29 | 1 |
| Di-n-octyl phthalate | <0.097 | | 0.097 | ug/L | | 05/29/24 09:15 | 05/30/24 13:29 | 1 |
| Endosulfan I (Alpha) | <0.097 | | 0.097 | ug/L | | 05/29/24 09:15 | 05/30/24 13:29 | 1 |
| Endosulfan II (Beta) | <0.097 | | 0.097 | ug/L | | 05/29/24 09:15 | 05/30/24 13:29 | 1 |
| Endosulfan sulfate | <0.097 | | 0.097 | ug/L | | 05/29/24 09:15 | 05/30/24 13:29 | 1 |
| Endrin | <0.097 | | 0.097 | ug/L | | 05/29/24 09:15 | 05/30/24 13:29 | 1 |
| Endrin aldehyde | <0.097 | | 0.097 | ug/L | | 05/29/24 09:15 | 05/30/24 13:29 | 1 |
| EPTC | <0.097 | | 0.097 | ug/L | | 05/29/24 09:15 | 05/30/24 13:29 | 1 |
| Fluoranthene | <0.097 | | 0.097 | ug/L | | 05/29/24 09:15 | 05/30/24 13:29 | 1 |
| Fluorene | <0.049 | | 0.049 | ug/L | | 05/29/24 09:15 | 05/30/24 13:29 | 1 |
| gamma-Chlordane | <0.049 | | 0.049 | ug/L | | 05/29/24 09:15 | 05/30/24 13:29 | 1 |
| Heptachlor | <0.039 | | 0.039 | ug/L | | 05/29/24 09:15 | 05/30/24 13:29 | 1 |
| Heptachlor epoxide (isomer B) | <0.049 | | 0.049 | ug/L | | 05/29/24 09:15 | 05/30/24 13:29 | 1 |
| Hexachlorobenzene | <0.049 | | 0.049 | ug/L | | 05/29/24 09:15 | 05/30/24 13:29 | 1 |
| Hexachlorocyclopentadiene | <0.049 | | 0.049 | ug/L | | 05/29/24 09:15 | 05/30/24 13:29 | 1 |
| Indeno[1,2,3-cd]pyrene | <0.049 | | 0.049 | ug/L | | 05/29/24 09:15 | 05/30/24 13:29 | 1 |
| Isophorone | <0.49 | | 0.49 | ug/L | | 05/29/24 09:15 | 05/30/24 13:29 | 1 |
| Lindane | <0.039 | | 0.039 | ug/L | | 05/29/24 09:15 | 05/30/24 13:29 | 1 |
| Malathion | <0.097 | | 0.097 | ug/L | | 05/29/24 09:15 | 05/30/24 13:29 | 1 |
| Methoxychlor | <0.097 | | 0.097 | ug/L | | 05/29/24 09:15 | 05/30/24 13:29 | 1 |
| Metolachlor | <0.049 | | 0.049 | ug/L | | 05/29/24 09:15 | 05/30/24 13:29 | 1 |
| Molinate | <0.097 | | 0.097 | ug/L | | 05/29/24 09:15 | 05/30/24 13:29 | 1 |
| Naphthalene | <0.29 | | 0.29 | ug/L | | 05/29/24 09:15 | 05/30/24 13:29 | 1 |
| Parathion | <0.097 | | 0.097 | ug/L | | 05/29/24 09:15 | 05/30/24 13:29 | 1 |
| Pendimethalin (Penoxaline) | <0.097 | | 0.097 | ug/L | | 05/29/24 09:15 | 05/30/24 13:29 | 1 |
| Phenanthrene | <0.039 | | 0.039 | ug/L | | 05/29/24 09:15 | 05/30/24 13:29 | 1 |
| Propachlor | <0.049 | | 0.049 | ug/L | | 05/29/24 09:15 | 05/30/24 13:29 | 1 |
| Pyrene | <0.049 | | 0.049 | ug/L | | 05/29/24 09:15 | 05/30/24 13:29 | 1 |
| Simazine | <0.049 | | 0.049 | ug/L | | 05/29/24 09:15 | 05/30/24 13:29 | 1 |
| Terbacil | <0.097 | | 0.097 | ug/L | | 05/29/24 09:15 | 05/30/24 13:29 | 1 |
| Terbutylazine | <0.097 | | 0.097 | ug/L | | 05/29/24 09:15 | 05/30/24 13:29 | 1 |

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-96902-1
SDG: 525.2, 533, 537.1

Client Sample ID: AIEA GULCH WELLS PUMP 2

Lab Sample ID: 380-96902-2

Date Collected: 05/20/24 11:01

Matrix: Water

Date Received: 05/22/24 10:34

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------------------|--------|-----------|-------|------|---|----------------|----------------|---------|
| Thiobencarb | <0.19 | | 0.19 | ug/L | | 05/29/24 09:15 | 05/30/24 13:29 | 1 |
| Total Permethrin (mixed isomers) | <0.19 | | 0.19 | ug/L | | 05/29/24 09:15 | 05/30/24 13:29 | 1 |
| trans-Nonachlor | <0.049 | | 0.049 | ug/L | | 05/29/24 09:15 | 05/30/24 13:29 | 1 |
| Trifluralin | <0.097 | | 0.097 | ug/L | | 05/29/24 09:15 | 05/30/24 13:29 | 1 |

| Tentatively Identified Compound | Est. Result | Qualifier | Unit | D | RT | CAS No. | Prepared | Analyzed | Dil Fac |
|---------------------------------|-------------|-----------|------|---|----|---------|----------------|----------------|---------|
| Tentatively Identified Compound | None | | ug/L | | | N/A | 05/29/24 09:15 | 05/30/24 13:29 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|--------------------|-----------|-----------|----------|----------------|----------------|---------|
| 2-Nitro-m-xylene | 98 | | 70 - 130 | 05/29/24 09:15 | 05/30/24 13:29 | 1 |
| Perylene-d12 | 96 | | 70 - 130 | 05/29/24 09:15 | 05/30/24 13:29 | 1 |
| Triphenylphosphate | 109 | | 70 - 130 | 05/29/24 09:15 | 05/30/24 13:29 | 1 |

Method: EPA 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|--------|-----------|-----|------|---|----------------|----------------|---------|
| 11-Chloroeicosfluoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 16:00 | 1 |
| 9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 16:00 | 1 |
| 4,8-Dioxa-3H-perfluorononanoic acid (ADONA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 16:00 | 1 |
| Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 16:00 | 1 |
| Perfluorobutanesulfonic acid (PFBS) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 16:00 | 1 |
| Perfluorodecanoic acid (PFDA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 16:00 | 1 |
| Perfluorododecanoic acid (PFDoA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 16:00 | 1 |
| Perfluoroheptanoic acid (PFHpA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 16:00 | 1 |
| Perfluorohexanesulfonic acid (PFHxS) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 16:00 | 1 |
| Perfluorohexanoic acid (PFHxA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 16:00 | 1 |
| Perfluorononanoic acid (PFNA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 16:00 | 1 |
| Perfluorooctanesulfonic acid (PFOS) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 16:00 | 1 |
| Perfluorooctanoic acid (PFOA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 16:00 | 1 |
| Perfluoroundecanoic acid (PFUnA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 16:00 | 1 |
| Perfluorobutanoic acid (PFBA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 16:00 | 1 |
| 1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 16:00 | 1 |
| 1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 16:00 | 1 |
| 1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 16:00 | 1 |
| Nonafluoro-3,6-dioxaheptanoic acid (NFDHA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 16:00 | 1 |
| Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 16:00 | 1 |
| Perfluoro-3-methoxypropanoic acid (PFMPA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 16:00 | 1 |
| Perfluoro-4-methoxybutanoic acid (PFMBA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 16:00 | 1 |
| Perfluoropentanoic acid (PFPeA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 16:00 | 1 |
| Perfluoroheptanesulfonic acid (PFHpS) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 16:00 | 1 |
| Perfluoropentanesulfonic acid (PFPeS) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 16:00 | 1 |

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-96902-1
SDG: 525.2, 533, 537.1

Client Sample ID: AIEA GULCH WELLS PUMP 2

Lab Sample ID: 380-96902-2

Date Collected: 05/20/24 11:01

Matrix: Water

Date Received: 05/22/24 10:34

| Isotope Dilution | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------|-----------|-----------|----------|----------------|----------------|---------|
| 13C3 HFPO-DA | 66 | | 50 - 200 | 05/23/24 10:26 | 05/24/24 16:00 | 1 |
| 13C6 PFDA | 57 | | 50 - 200 | 05/23/24 10:26 | 05/24/24 16:00 | 1 |
| 13C5 PFHxA | 73 | | 50 - 200 | 05/23/24 10:26 | 05/24/24 16:00 | 1 |
| 13C4 PFHpA | 75 | | 50 - 200 | 05/23/24 10:26 | 05/24/24 16:00 | 1 |
| 13C8 PFOA | 70 | | 50 - 200 | 05/23/24 10:26 | 05/24/24 16:00 | 1 |
| 13C9 PFNA | 60 | | 50 - 200 | 05/23/24 10:26 | 05/24/24 16:00 | 1 |
| 13C7 PFUnA | 60 | | 50 - 200 | 05/23/24 10:26 | 05/24/24 16:00 | 1 |
| 13C2 PFDoA | 67 | | 50 - 200 | 05/23/24 10:26 | 05/24/24 16:00 | 1 |
| 13C4 PFBA | 81 | | 50 - 200 | 05/23/24 10:26 | 05/24/24 16:00 | 1 |
| 13C5 PFPeA | 82 | | 50 - 200 | 05/23/24 10:26 | 05/24/24 16:00 | 1 |
| 13C3 PFBS | 103 | | 50 - 200 | 05/23/24 10:26 | 05/24/24 16:00 | 1 |
| 13C3 PFHxS | 106 | | 50 - 200 | 05/23/24 10:26 | 05/24/24 16:00 | 1 |
| 13C8 PFOS | 100 | | 50 - 200 | 05/23/24 10:26 | 05/24/24 16:00 | 1 |
| 13C2-4:2-FTS | 126 | | 50 - 200 | 05/23/24 10:26 | 05/24/24 16:00 | 1 |
| 13C2-6:2-FTS | 109 | | 50 - 200 | 05/23/24 10:26 | 05/24/24 16:00 | 1 |
| 13C2-8:2-FTS | 88 | | 50 - 200 | 05/23/24 10:26 | 05/24/24 16:00 | 1 |

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|--------|-----------|-----|------|---|----------------|----------------|---------|
| Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 20:25 | 1 |
| Perfluorooctanesulfonic acid (PFOS) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 20:25 | 1 |
| Perfluoroundecanoic acid (PFUnA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 20:25 | 1 |
| N-methylperfluorooctanesulfonamide acetic acid (NMeFOSAA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 20:25 | 1 |
| N-ethylperfluorooctanesulfonamide acetic acid (NEtFOSAA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 20:25 | 1 |
| Perfluorohexanoic acid (PFHxA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 20:25 | 1 |
| Perfluorododecanoic acid (PFDoA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 20:25 | 1 |
| Perfluorooctanoic acid (PFOA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 20:25 | 1 |
| Perfluorodecanoic acid (PFDA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 20:25 | 1 |
| Perfluorohexanesulfonic acid (PFHxS) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 20:25 | 1 |
| Perfluorobutanesulfonic acid (PFBS) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 20:25 | 1 |
| Perfluoroheptanoic acid (PFHpA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 20:25 | 1 |
| Perfluorononanoic acid (PFNA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 20:25 | 1 |
| Perfluorotetradecanoic acid (PFTA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 20:25 | 1 |
| Perfluorotridecanoic acid (PFTrDA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 20:25 | 1 |
| 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 20:25 | 1 |
| 11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 20:25 | 1 |
| 4,8-Dioxa-3H-perfluorononanoic acid (ADONA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 20:25 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-------------|-----------|-----------|----------|----------------|----------------|---------|
| d5-NEtFOSAA | 104 | | 70 - 130 | 05/23/24 10:15 | 05/24/24 20:25 | 1 |
| 13C2 PFHxA | 109 | | 70 - 130 | 05/23/24 10:15 | 05/24/24 20:25 | 1 |
| 13C2 PFDA | 110 | | 70 - 130 | 05/23/24 10:15 | 05/24/24 20:25 | 1 |
| 13C3-GenX | 103 | | 70 - 130 | 05/23/24 10:15 | 05/24/24 20:25 | 1 |

Client Sample Results

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

Job ID: 380-96902-1
SDG: 525.2, 533, 537.1

Client Sample ID: AIEA WELLS PUMPS 1&2 (260) P2

Lab Sample ID: 380-96902-3

Date Collected: 05/20/24 11:27

Matrix: Water

Date Received: 05/22/24 10:34

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------------------|--------|-----------|-------|------|---|----------------|----------------|---------|
| 1-Methylnaphthalene | <0.098 | | 0.098 | ug/L | | 05/29/24 09:15 | 05/30/24 13:49 | 1 |
| 2,4'-DDD | <0.098 | | 0.098 | ug/L | | 05/29/24 09:15 | 05/30/24 13:49 | 1 |
| 2,4'-DDE | <0.098 | | 0.098 | ug/L | | 05/29/24 09:15 | 05/30/24 13:49 | 1 |
| 2,4'-DDT | <0.098 | | 0.098 | ug/L | | 05/29/24 09:15 | 05/30/24 13:49 | 1 |
| 2,4-Dinitrotoluene | <0.098 | | 0.098 | ug/L | | 05/29/24 09:15 | 05/30/24 13:49 | 1 |
| 2,6-Dinitrotoluene | <0.098 | | 0.098 | ug/L | | 05/29/24 09:15 | 05/30/24 13:49 | 1 |
| 2-Methylnaphthalene | <0.098 | | 0.098 | ug/L | | 05/29/24 09:15 | 05/30/24 13:49 | 1 |
| 4,4'-DDD | <0.098 | | 0.098 | ug/L | | 05/29/24 09:15 | 05/30/24 13:49 | 1 |
| 4,4'-DDE | <0.098 | | 0.098 | ug/L | | 05/29/24 09:15 | 05/30/24 13:49 | 1 |
| 4,4'-DDT | <0.098 | | 0.098 | ug/L | | 05/29/24 09:15 | 05/30/24 13:49 | 1 |
| Acenaphthene | <0.098 | | 0.098 | ug/L | | 05/29/24 09:15 | 05/30/24 13:49 | 1 |
| Acenaphthylene | <0.098 | | 0.098 | ug/L | | 05/29/24 09:15 | 05/30/24 13:49 | 1 |
| Acetochlor | <0.098 | | 0.098 | ug/L | | 05/29/24 09:15 | 05/30/24 13:49 | 1 |
| Alachlor | <0.049 | | 0.049 | ug/L | | 05/29/24 09:15 | 05/30/24 13:49 | 1 |
| alpha-BHC | <0.098 | | 0.098 | ug/L | | 05/29/24 09:15 | 05/30/24 13:49 | 1 |
| alpha-Chlordane | <0.049 | | 0.049 | ug/L | | 05/29/24 09:15 | 05/30/24 13:49 | 1 |
| Anthracene | <0.020 | | 0.020 | ug/L | | 05/29/24 09:15 | 05/30/24 13:49 | 1 |
| Atrazine | <0.049 | | 0.049 | ug/L | | 05/29/24 09:15 | 05/30/24 13:49 | 1 |
| Benz(a)anthracene | <0.049 | | 0.049 | ug/L | | 05/29/24 09:15 | 05/30/24 13:49 | 1 |
| Benzo[a]pyrene | <0.020 | | 0.020 | ug/L | | 05/29/24 09:15 | 05/30/24 13:49 | 1 |
| Benzo[b]fluoranthene | <0.020 | | 0.020 | ug/L | | 05/29/24 09:15 | 05/30/24 13:49 | 1 |
| Benzo[g,h,i]perylene | <0.049 | | 0.049 | ug/L | | 05/29/24 09:15 | 05/30/24 13:49 | 1 |
| Benzo[k]fluoranthene | <0.020 | | 0.020 | ug/L | | 05/29/24 09:15 | 05/30/24 13:49 | 1 |
| beta-BHC | <0.098 | | 0.098 | ug/L | | 05/29/24 09:15 | 05/30/24 13:49 | 1 |
| Bis(2-ethylhexyl) phthalate | <0.59 | | 0.59 | ug/L | | 05/29/24 09:15 | 05/30/24 13:49 | 1 |
| Bromacil | <0.098 | | 0.098 | ug/L | | 05/29/24 09:15 | 05/30/24 13:49 | 1 |
| Butachlor | <0.049 | | 0.049 | ug/L | | 05/29/24 09:15 | 05/30/24 13:49 | 1 |
| Butylbenzylphthalate | <0.49 | | 0.49 | ug/L | | 05/29/24 09:15 | 05/30/24 13:49 | 1 |
| Chlorobenzilate | <0.098 | | 0.098 | ug/L | | 05/29/24 09:15 | 05/30/24 13:49 | 1 |
| Chloroneb | <0.098 | | 0.098 | ug/L | | 05/29/24 09:15 | 05/30/24 13:49 | 1 |
| Chlorothalonil (Draconil, Bravo) | <0.098 | | 0.098 | ug/L | | 05/29/24 09:15 | 05/30/24 13:49 | 1 |
| Chlorpyrifos | <0.049 | | 0.049 | ug/L | | 05/29/24 09:15 | 05/30/24 13:49 | 1 |
| Chrysene | <0.020 | | 0.020 | ug/L | | 05/29/24 09:15 | 05/30/24 13:49 | 1 |
| delta-BHC | <0.098 | | 0.098 | ug/L | | 05/29/24 09:15 | 05/30/24 13:49 | 1 |
| Di(2-ethylhexyl)adipate | <0.59 | | 0.59 | ug/L | | 05/29/24 09:15 | 05/30/24 13:49 | 1 |
| Dibenz(a,h)anthracene | <0.049 | | 0.049 | ug/L | | 05/29/24 09:15 | 05/30/24 13:49 | 1 |
| Diclorvos (DDVP) | <0.049 | | 0.049 | ug/L | | 05/29/24 09:15 | 05/30/24 13:49 | 1 |
| Dieldrin | <0.20 | | 0.20 | ug/L | | 05/29/24 09:15 | 05/30/24 13:49 | 1 |
| Diethylphthalate | <0.49 | | 0.49 | ug/L | | 05/29/24 09:15 | 05/30/24 13:49 | 1 |
| Dimethylphthalate | <0.49 | | 0.49 | ug/L | | 05/29/24 09:15 | 05/30/24 13:49 | 1 |
| Di-n-butyl phthalate | <0.98 | | 0.98 | ug/L | | 05/29/24 09:15 | 05/30/24 13:49 | 1 |
| Di-n-octyl phthalate | <0.098 | | 0.098 | ug/L | | 05/29/24 09:15 | 05/30/24 13:49 | 1 |
| Endosulfan I (Alpha) | <0.098 | | 0.098 | ug/L | | 05/29/24 09:15 | 05/30/24 13:49 | 1 |
| Endosulfan II (Beta) | <0.098 | | 0.098 | ug/L | | 05/29/24 09:15 | 05/30/24 13:49 | 1 |
| Endosulfan sulfate | <0.098 | | 0.098 | ug/L | | 05/29/24 09:15 | 05/30/24 13:49 | 1 |
| Endrin | <0.098 | | 0.098 | ug/L | | 05/29/24 09:15 | 05/30/24 13:49 | 1 |
| Endrin aldehyde | <0.098 | | 0.098 | ug/L | | 05/29/24 09:15 | 05/30/24 13:49 | 1 |
| EPTC | <0.098 | | 0.098 | ug/L | | 05/29/24 09:15 | 05/30/24 13:49 | 1 |
| Fluoranthene | <0.098 | | 0.098 | ug/L | | 05/29/24 09:15 | 05/30/24 13:49 | 1 |

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-96902-1
SDG: 525.2, 533, 537.1

Client Sample ID: AIEA WELLS PUMPS 1&2 (260) P2

Lab Sample ID: 380-96902-3

Date Collected: 05/20/24 11:27

Matrix: Water

Date Received: 05/22/24 10:34

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 | | 05/29/24 09:15 | 05/30/24 13:49 | 1 |
| gamma-Chlordane | <0.049 | | 0.049 | ug/L | | 05/29/24 09:15 | 05/30/24 13:49 | 1 |
| Heptachlor | <0.039 | | 0.039 | ug/L | | 05/29/24 09:15 | 05/30/24 13:49 | 1 |
| Heptachlor epoxide (isomer B) | <0.049 | | 0.049 | ug/L | | 05/29/24 09:15 | 05/30/24 13:49 | 1 |
| Hexachlorobenzene | <0.049 | | 0.049 | ug/L | | 05/29/24 09:15 | 05/30/24 13:49 | 1 |
| Hexachlorocyclopentadiene | <0.049 | | 0.049 | ug/L | | 05/29/24 09:15 | 05/30/24 13:49 | 1 |
| Indeno[1,2,3-cd]pyrene | <0.049 | | 0.049 | ug/L | | 05/29/24 09:15 | 05/30/24 13:49 | 1 |
| Isophorone | <0.49 | | 0.49 | ug/L | | 05/29/24 09:15 | 05/30/24 13:49 | 1 |
| Lindane | <0.039 | | 0.039 | ug/L | | 05/29/24 09:15 | 05/30/24 13:49 | 1 |
| Malathion | <0.098 | | 0.098 | ug/L | | 05/29/24 09:15 | 05/30/24 13:49 | 1 |
| Methoxychlor | <0.098 | | 0.098 | ug/L | | 05/29/24 09:15 | 05/30/24 13:49 | 1 |
| Metolachlor | <0.049 | | 0.049 | ug/L | | 05/29/24 09:15 | 05/30/24 13:49 | 1 |
| Molinate | <0.098 | | 0.098 | ug/L | | 05/29/24 09:15 | 05/30/24 13:49 | 1 |
| Naphthalene | <0.29 | | 0.29 | ug/L | | 05/29/24 09:15 | 05/30/24 13:49 | 1 |
| Parathion | <0.098 | | 0.098 | ug/L | | 05/29/24 09:15 | 05/30/24 13:49 | 1 |
| Pendimethalin (Penoxaline) | <0.098 | | 0.098 | ug/L | | 05/29/24 09:15 | 05/30/24 13:49 | 1 |
| Phenanthrene | <0.039 | | 0.039 | ug/L | | 05/29/24 09:15 | 05/30/24 13:49 | 1 |
| Propachlor | <0.049 | | 0.049 | ug/L | | 05/29/24 09:15 | 05/30/24 13:49 | 1 |
| Pyrene | <0.049 | | 0.049 | ug/L | | 05/29/24 09:15 | 05/30/24 13:49 | 1 |
| Simazine | <0.049 | | 0.049 | ug/L | | 05/29/24 09:15 | 05/30/24 13:49 | 1 |
| Terbacil | <0.098 | | 0.098 | ug/L | | 05/29/24 09:15 | 05/30/24 13:49 | 1 |
| Terbutylazine | <0.098 | | 0.098 | ug/L | | 05/29/24 09:15 | 05/30/24 13:49 | 1 |
| Thiobencarb | <0.20 | | 0.20 | ug/L | | 05/29/24 09:15 | 05/30/24 13:49 | 1 |
| Total Permethrin (mixed isomers) | <0.20 | | 0.20 | ug/L | | 05/29/24 09:15 | 05/30/24 13:49 | 1 |
| trans-Nonachlor | <0.049 | | 0.049 | ug/L | | 05/29/24 09:15 | 05/30/24 13:49 | 1 |
| Trifluralin | <0.098 | | 0.098 | ug/L | | 05/29/24 09:15 | 05/30/24 13:49 | 1 |

| Tentatively Identified Compound | Est. Result | Qualifier | Unit | D | RT | CAS No. | Prepared | Analyzed | Dil Fac |
|---------------------------------|-------------|-----------|------|---|----|---------|----------------|----------------|---------|
| Tentatively Identified Compound | None | | ug/L | | | N/A | 05/29/24 09:15 | 05/30/24 13:49 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|--------------------|-----------|-----------|----------|----------------|----------------|---------|
| 2-Nitro-m-xylene | 96 | | 70 - 130 | 05/29/24 09:15 | 05/30/24 13:49 | 1 |
| Perylene-d12 | 90 | | 70 - 130 | 05/29/24 09:15 | 05/30/24 13:49 | 1 |
| Triphenylphosphate | 96 | | 70 - 130 | 05/29/24 09:15 | 05/30/24 13:49 | 1 |

Method: EPA 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|--------|-----------|-----|------|---|----------------|----------------|---------|
| 11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 16:10 | 1 |
| 9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 16:10 | 1 |
| 4,8-Dioxa-3H-perfluorononanoic acid (ADONA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 16:10 | 1 |
| Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 16:10 | 1 |
| Perfluorobutanesulfonic acid (PFBS) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 16:10 | 1 |
| Perfluorodecanoic acid (PFDA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 16:10 | 1 |
| Perfluorododecanoic acid (PFDoA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 16:10 | 1 |
| Perfluoroheptanoic acid (PFHpA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 16:10 | 1 |
| Perfluorohexanesulfonic acid (PFHxS) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 16:10 | 1 |
| Perfluorohexanoic acid (PFHxA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 16:10 | 1 |

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-96902-1
SDG: 525.2, 533, 537.1

Client Sample ID: AIEA WELLS PUMPS 1&2 (260) P2

Lab Sample ID: 380-96902-3

Date Collected: 05/20/24 11:27

Matrix: Water

Date Received: 05/22/24 10:34

Method: EPA 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water (Continued)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|-----------|-----------|----------|------|---|----------------|----------------|---------|
| Perfluorononanoic acid (PFNA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 16:10 | 1 |
| Perfluorooctanesulfonic acid (PFOS) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 16:10 | 1 |
| Perfluorooctanoic acid (PFOA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 16:10 | 1 |
| Perfluoroundecanoic acid (PFUnA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 16:10 | 1 |
| Perfluorobutanoic acid (PFBA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 16:10 | 1 |
| 1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 16:10 | 1 |
| 1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 16:10 | 1 |
| 1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 16:10 | 1 |
| Nonafluoro-3,6-dioxaheptanoic acid (NFDHA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 16:10 | 1 |
| Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 16:10 | 1 |
| Perfluoro-3-methoxypropanoic acid (PFMPA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 16:10 | 1 |
| Perfluoro-4-methoxybutanoic acid (PFMBA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 16:10 | 1 |
| Perfluoropentanoic acid (PFPeA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 16:10 | 1 |
| Perfluoroheptanesulfonic acid (PFHpS) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 16:10 | 1 |
| Perfluoropentanesulfonic acid (PFPeS) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 16:10 | 1 |
| Isotope Dilution | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 13C3 HFPO-DA | 94 | | 50 - 200 | | | 05/23/24 10:26 | 05/24/24 16:10 | 1 |
| 13C6 PFDA | 97 | | 50 - 200 | | | 05/23/24 10:26 | 05/24/24 16:10 | 1 |
| 13C5 PFHxA | 95 | | 50 - 200 | | | 05/23/24 10:26 | 05/24/24 16:10 | 1 |
| 13C4 PFHpA | 104 | | 50 - 200 | | | 05/23/24 10:26 | 05/24/24 16:10 | 1 |
| 13C8 PFOA | 104 | | 50 - 200 | | | 05/23/24 10:26 | 05/24/24 16:10 | 1 |
| 13C9 PFNA | 104 | | 50 - 200 | | | 05/23/24 10:26 | 05/24/24 16:10 | 1 |
| 13C7 PFUnA | 88 | | 50 - 200 | | | 05/23/24 10:26 | 05/24/24 16:10 | 1 |
| 13C2 PFDoA | 86 | | 50 - 200 | | | 05/23/24 10:26 | 05/24/24 16:10 | 1 |
| 13C4 PFBA | 101 | | 50 - 200 | | | 05/23/24 10:26 | 05/24/24 16:10 | 1 |
| 13C5 PFPeA | 106 | | 50 - 200 | | | 05/23/24 10:26 | 05/24/24 16:10 | 1 |
| 13C3 PFBS | 102 | | 50 - 200 | | | 05/23/24 10:26 | 05/24/24 16:10 | 1 |
| 13C3 PFHxS | 105 | | 50 - 200 | | | 05/23/24 10:26 | 05/24/24 16:10 | 1 |
| 13C8 PFOS | 101 | | 50 - 200 | | | 05/23/24 10:26 | 05/24/24 16:10 | 1 |
| 13C2-4:2-FTS | 122 | | 50 - 200 | | | 05/23/24 10:26 | 05/24/24 16:10 | 1 |
| 13C2-6:2-FTS | 103 | | 50 - 200 | | | 05/23/24 10:26 | 05/24/24 16:10 | 1 |
| 13C2-8:2-FTS | 86 | | 50 - 200 | | | 05/23/24 10:26 | 05/24/24 16:10 | 1 |

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|--------|-----------|-----|------|---|----------------|----------------|---------|
| Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 20:35 | 1 |
| Perfluorooctanesulfonic acid (PFOS) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 20:35 | 1 |
| Perfluoroundecanoic acid (PFUnA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 20:35 | 1 |
| N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 20:35 | 1 |
| N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 20:35 | 1 |

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-96902-1
SDG: 525.2, 533, 537.1

Client Sample ID: AIEA WELLS PUMPS 1&2 (260) P2

Lab Sample ID: 380-96902-3

Date Collected: 05/20/24 11:27

Matrix: Water

Date Received: 05/22/24 10:34

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|-----------|-----------|----------|------|---|----------------|----------------|---------|
| Perfluorohexanoic acid (PFHxA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 20:35 | 1 |
| Perfluorododecanoic acid (PFDoA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 20:35 | 1 |
| Perfluorooctanoic acid (PFOA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 20:35 | 1 |
| Perfluorodecanoic acid (PFDA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 20:35 | 1 |
| Perfluorohexanesulfonic acid (PFHxS) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 20:35 | 1 |
| Perfluorobutanesulfonic acid (PFBS) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 20:35 | 1 |
| Perfluoroheptanoic acid (PFHpA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 20:35 | 1 |
| Perfluorononanoic acid (PFNA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 20:35 | 1 |
| Perfluorotetradecanoic acid (PFTA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 20:35 | 1 |
| Perfluorotridecanoic acid (PFTrDA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 20:35 | 1 |
| 9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 20:35 | 1 |
| 11-Chloroeicosafuoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 20:35 | 1 |
| 4,8-Dioxa-3H-perfluorononanoic acid (ADONA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 20:35 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| d5-NEtFOSAA | 100 | | 70 - 130 | | | 05/23/24 10:15 | 05/24/24 20:35 | 1 |
| 13C2 PFHxA | 112 | | 70 - 130 | | | 05/23/24 10:15 | 05/24/24 20:35 | 1 |
| 13C2 PFDA | 105 | | 70 - 130 | | | 05/23/24 10:15 | 05/24/24 20:35 | 1 |
| 13C3-GenX | 99 | | 70 - 130 | | | 05/23/24 10:15 | 05/24/24 20:35 | 1 |

Client Sample ID: HALAWA WELLS UNITS 1&2 P1

Lab Sample ID: 380-96902-4

Date Collected: 05/20/24 10:35

Matrix: Water

Date Received: 05/22/24 10:34

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|------------|-----------|-----|------|---|----------------|----------------|---------|
| Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 20:45 | 1 |
| Perfluorooctanesulfonic acid (PFOS) | 2.1 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 20:45 | 1 |
| Perfluoroundecanoic acid (PFUnA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 20:45 | 1 |
| N-methylperfluorooctanesulfonamidoa cetic acid (NMeFOSAA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 20:45 | 1 |
| N-ethylperfluorooctanesulfonamidoac etic acid (NEtFOSAA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 20:45 | 1 |
| Perfluorohexanoic acid (PFHxA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 20:45 | 1 |
| Perfluorododecanoic acid (PFDoA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 20:45 | 1 |
| Perfluorooctanoic acid (PFOA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 20:45 | 1 |
| Perfluorodecanoic acid (PFDA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 20:45 | 1 |
| Perfluorohexanesulfonic acid (PFHxS) | 2.3 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 20:45 | 1 |
| Perfluorobutanesulfonic acid (PFBS) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 20:45 | 1 |
| Perfluoroheptanoic acid (PFHpA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 20:45 | 1 |
| Perfluorononanoic acid (PFNA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 20:45 | 1 |
| Perfluorotetradecanoic acid (PFTA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 20:45 | 1 |
| Perfluorotridecanoic acid (PFTrDA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 20:45 | 1 |
| 9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 20:45 | 1 |
| 11-Chloroeicosafuoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 20:45 | 1 |

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Client Sample Results

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

Job ID: 380-96902-1
SDG: 525.2, 533, 537.1

Client Sample ID: HALAWA WELLS UNITS 1&2 P1

Lab Sample ID: 380-96902-4

Date Collected: 05/20/24 10:35

Matrix: Water

Date Received: 05/22/24 10:34

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|------------------|------------------|---------------|------|---|-----------------|-----------------|----------------|
| 4,8-Dioxa-3H-perfluorononanoic acid (ADONA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 20:45 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| d5-NEtFOSAA | 98 | | 70 - 130 | | | 05/23/24 10:15 | 05/24/24 20:45 | 1 |
| 13C2 PFHxA | 111 | | 70 - 130 | | | 05/23/24 10:15 | 05/24/24 20:45 | 1 |
| 13C2 PFDA | 108 | | 70 - 130 | | | 05/23/24 10:15 | 05/24/24 20:45 | 1 |
| 13C3-GenX | 101 | | 70 - 130 | | | 05/23/24 10:15 | 05/24/24 20:45 | 1 |

Client Sample ID: FB: MOANALUA WELLS

Lab Sample ID: 380-96902-5

Date Collected: 05/20/24 10:09

Matrix: Water

Date Received: 05/22/24 10:34

Method: EPA 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|--------|-----------|-----|------|---|----------------|----------------|---------|
| 11-Chloroeicosfluoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 16:29 | 1 |
| 9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 16:29 | 1 |
| 4,8-Dioxa-3H-perfluorononanoic acid (ADONA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 16:29 | 1 |
| Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 16:29 | 1 |
| Perfluorobutanesulfonic acid (PFBS) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 16:29 | 1 |
| Perfluorodecanoic acid (PFDA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 16:29 | 1 |
| Perfluorododecanoic acid (PFDoA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 16:29 | 1 |
| Perfluoroheptanoic acid (PFHpA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 16:29 | 1 |
| Perfluorohexanesulfonic acid (PFHxS) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 16:29 | 1 |
| Perfluorohexanoic acid (PFHxA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 16:29 | 1 |
| Perfluorononanoic acid (PFNA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 16:29 | 1 |
| Perfluorooctanesulfonic acid (PFOS) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 16:29 | 1 |
| Perfluorooctanoic acid (PFOA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 16:29 | 1 |
| Perfluoroundecanoic acid (PFUnA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 16:29 | 1 |
| Perfluorobutanoic acid (PFBA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 16:29 | 1 |
| 1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 16:29 | 1 |
| 1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 16:29 | 1 |
| 1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 16:29 | 1 |
| Nonafluoro-3,6-dioxaheptanoic acid (NFDHA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 16:29 | 1 |
| Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 16:29 | 1 |
| Perfluoro-3-methoxypropanoic acid (PFMPA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 16:29 | 1 |
| Perfluoro-4-methoxybutanoic acid (PFMBA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 16:29 | 1 |
| Perfluoropentanoic acid (PFPeA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 16:29 | 1 |
| Perfluoroheptanesulfonic acid (PFHpS) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 16:29 | 1 |
| Perfluoropentanesulfonic acid (PFPeS) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 16:29 | 1 |

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-96902-1
SDG: 525.2, 533, 537.1

Client Sample ID: FB: MOANALUA WELLS

Lab Sample ID: 380-96902-5

Date Collected: 05/20/24 10:09

Matrix: Water

Date Received: 05/22/24 10:34

| Isotope Dilution | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------|-----------|-----------|----------|----------------|----------------|---------|
| 13C3 HFPO-DA | 102 | | 50 - 200 | 05/23/24 10:26 | 05/24/24 16:29 | 1 |
| 13C6 PFDA | 101 | | 50 - 200 | 05/23/24 10:26 | 05/24/24 16:29 | 1 |
| 13C5 PFHxA | 103 | | 50 - 200 | 05/23/24 10:26 | 05/24/24 16:29 | 1 |
| 13C4 PFHpA | 108 | | 50 - 200 | 05/23/24 10:26 | 05/24/24 16:29 | 1 |
| 13C8 PFOA | 109 | | 50 - 200 | 05/23/24 10:26 | 05/24/24 16:29 | 1 |
| 13C9 PFNA | 107 | | 50 - 200 | 05/23/24 10:26 | 05/24/24 16:29 | 1 |
| 13C7 PFUnA | 94 | | 50 - 200 | 05/23/24 10:26 | 05/24/24 16:29 | 1 |
| 13C2 PFDoA | 93 | | 50 - 200 | 05/23/24 10:26 | 05/24/24 16:29 | 1 |
| 13C4 PFBA | 103 | | 50 - 200 | 05/23/24 10:26 | 05/24/24 16:29 | 1 |
| 13C5 PFPeA | 108 | | 50 - 200 | 05/23/24 10:26 | 05/24/24 16:29 | 1 |
| 13C3 PFBS | 105 | | 50 - 200 | 05/23/24 10:26 | 05/24/24 16:29 | 1 |
| 13C3 PFHxS | 108 | | 50 - 200 | 05/23/24 10:26 | 05/24/24 16:29 | 1 |
| 13C8 PFOS | 105 | | 50 - 200 | 05/23/24 10:26 | 05/24/24 16:29 | 1 |
| 13C2-4:2-FTS | 123 | | 50 - 200 | 05/23/24 10:26 | 05/24/24 16:29 | 1 |
| 13C2-6:2-FTS | 105 | | 50 - 200 | 05/23/24 10:26 | 05/24/24 16:29 | 1 |
| 13C2-8:2-FTS | 93 | | 50 - 200 | 05/23/24 10:26 | 05/24/24 16:29 | 1 |

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|--------|-----------|-----|------|---|----------------|----------------|---------|
| Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 21:06 | 1 |
| Perfluorooctanesulfonic acid (PFOS) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 21:06 | 1 |
| Perfluoroundecanoic acid (PFUnA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 21:06 | 1 |
| N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 21:06 | 1 |
| N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 21:06 | 1 |
| Perfluorohexanoic acid (PFHxA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 21:06 | 1 |
| Perfluorododecanoic acid (PFDoA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 21:06 | 1 |
| Perfluorooctanoic acid (PFOA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 21:06 | 1 |
| Perfluorodecanoic acid (PFDA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 21:06 | 1 |
| Perfluorohexanesulfonic acid (PFHxS) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 21:06 | 1 |
| Perfluorobutanesulfonic acid (PFBS) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 21:06 | 1 |
| Perfluoroheptanoic acid (PFHpA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 21:06 | 1 |
| Perfluorononanoic acid (PFNA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 21:06 | 1 |
| Perfluorotetradecanoic acid (PFTA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 21:06 | 1 |
| Perfluorotridecanoic acid (PFTrDA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 21:06 | 1 |
| 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 21:06 | 1 |
| 11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 21:06 | 1 |
| 4,8-Dioxa-3H-perfluorononanoic acid (ADONA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 21:06 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-------------|-----------|-----------|----------|----------------|----------------|---------|
| d5-NEtFOSAA | 102 | | 70 - 130 | 05/23/24 10:15 | 05/24/24 21:06 | 1 |
| 13C2 PFHxA | 108 | | 70 - 130 | 05/23/24 10:15 | 05/24/24 21:06 | 1 |
| 13C2 PFDA | 111 | | 70 - 130 | 05/23/24 10:15 | 05/24/24 21:06 | 1 |
| 13C3-GenX | 98 | | 70 - 130 | 05/23/24 10:15 | 05/24/24 21:06 | 1 |

Client Sample Results

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

Job ID: 380-96902-1
SDG: 525.2, 533, 537.1

Client Sample ID: FB: AIEA GULCH WELLS PUMP 2

Lab Sample ID: 380-96902-6

Date Collected: 05/20/24 11:01

Matrix: Water

Date Received: 05/22/24 10:34

Method: EPA 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|--------|-----------|-----|------|---|----------------|----------------|---------|
| 11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 16:38 | 1 |
| 9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 16:38 | 1 |
| 4,8-Dioxa-3H-perfluorononanoic acid (ADONA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 16:38 | 1 |
| Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 16:38 | 1 |
| Perfluorobutanesulfonic acid (PFBS) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 16:38 | 1 |
| Perfluorodecanoic acid (PFDA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 16:38 | 1 |
| Perfluorododecanoic acid (PFDoA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 16:38 | 1 |
| Perfluoroheptanoic acid (PFHpA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 16:38 | 1 |
| Perfluorohexanesulfonic acid (PFHxS) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 16:38 | 1 |
| Perfluorohexanoic acid (PFHxA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 16:38 | 1 |
| Perfluorononanoic acid (PFNA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 16:38 | 1 |
| Perfluorooctanesulfonic acid (PFOS) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 16:38 | 1 |
| Perfluorooctanoic acid (PFOA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 16:38 | 1 |
| Perfluoroundecanoic acid (PFUnA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 16:38 | 1 |
| Perfluorobutanoic acid (PFBA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 16:38 | 1 |
| 1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 16:38 | 1 |
| 1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 16:38 | 1 |
| 1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 16:38 | 1 |
| Nonafluoro-3,6-dioxaheptanoic acid (NFDHA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 16:38 | 1 |
| Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 16:38 | 1 |
| Perfluoro-3-methoxypropanoic acid (PFMPA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 16:38 | 1 |
| Perfluoro-4-methoxybutanoic acid (PFMBA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 16:38 | 1 |
| Perfluoropentanoic acid (PFPeA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 16:38 | 1 |
| Perfluoroheptanesulfonic acid (PFHpS) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 16:38 | 1 |
| Perfluoropentanesulfonic acid (PFPeS) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 16:38 | 1 |

| Isotope Dilution | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------|-----------|-----------|----------|----------------|----------------|---------|
| 13C3 HFPO-DA | 96 | | 50 - 200 | 05/23/24 10:26 | 05/24/24 16:38 | 1 |
| 13C6 PFDA | 97 | | 50 - 200 | 05/23/24 10:26 | 05/24/24 16:38 | 1 |
| 13C5 PFHxA | 100 | | 50 - 200 | 05/23/24 10:26 | 05/24/24 16:38 | 1 |
| 13C4 PFHpA | 105 | | 50 - 200 | 05/23/24 10:26 | 05/24/24 16:38 | 1 |
| 13C8 PFOA | 101 | | 50 - 200 | 05/23/24 10:26 | 05/24/24 16:38 | 1 |
| 13C9 PFNA | 101 | | 50 - 200 | 05/23/24 10:26 | 05/24/24 16:38 | 1 |
| 13C7 PFUnA | 85 | | 50 - 200 | 05/23/24 10:26 | 05/24/24 16:38 | 1 |
| 13C2 PFDoA | 90 | | 50 - 200 | 05/23/24 10:26 | 05/24/24 16:38 | 1 |
| 13C4 PFBA | 100 | | 50 - 200 | 05/23/24 10:26 | 05/24/24 16:38 | 1 |
| 13C5 PFPeA | 100 | | 50 - 200 | 05/23/24 10:26 | 05/24/24 16:38 | 1 |
| 13C3 PFBS | 107 | | 50 - 200 | 05/23/24 10:26 | 05/24/24 16:38 | 1 |
| 13C3 PFHxS | 109 | | 50 - 200 | 05/23/24 10:26 | 05/24/24 16:38 | 1 |
| 13C8 PFOS | 104 | | 50 - 200 | 05/23/24 10:26 | 05/24/24 16:38 | 1 |

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-96902-1
SDG: 525.2, 533, 537.1

Client Sample ID: FB: AIEA GULCH WELLS PUMP 2

Lab Sample ID: 380-96902-6

Date Collected: 05/20/24 11:01

Matrix: Water

Date Received: 05/22/24 10:34

Method: EPA 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water (Continued)

| Isotope Dilution | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------|-----------|-----------|----------|----------------|----------------|---------|
| 13C2-4:2-FTS | 120 | | 50 - 200 | 05/23/24 10:26 | 05/24/24 16:38 | 1 |
| 13C2-6:2-FTS | 104 | | 50 - 200 | 05/23/24 10:26 | 05/24/24 16:38 | 1 |
| 13C2-8:2-FTS | 90 | | 50 - 200 | 05/23/24 10:26 | 05/24/24 16:38 | 1 |

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|-----------|-----------|----------|----------------|----------------|----------------|----------------|---------|
| Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 21:17 | 1 |
| Perfluorooctanesulfonic acid (PFOS) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 21:17 | 1 |
| Perfluoroundecanoic acid (PFUnA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 21:17 | 1 |
| N-methylperfluorooctanesulfonamideacetic acid (NMeFOSAA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 21:17 | 1 |
| N-ethylperfluorooctanesulfonamideacetic acid (NEtFOSAA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 21:17 | 1 |
| Perfluorohexanoic acid (PFHxA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 21:17 | 1 |
| Perfluorododecanoic acid (PFDoA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 21:17 | 1 |
| Perfluorooctanoic acid (PFOA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 21:17 | 1 |
| Perfluorodecanoic acid (PFDA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 21:17 | 1 |
| Perfluorohexanesulfonic acid (PFHxS) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 21:17 | 1 |
| Perfluorobutanesulfonic acid (PFBS) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 21:17 | 1 |
| Perfluoroheptanoic acid (PFHpA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 21:17 | 1 |
| Perfluorononanoic acid (PFNA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 21:17 | 1 |
| Perfluorotetradecanoic acid (PFTA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 21:17 | 1 |
| Perfluorotridecanoic acid (PFTrDA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 21:17 | 1 |
| 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 21:17 | 1 |
| 11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 21:17 | 1 |
| 4,8-Dioxa-3H-perfluorononanoic acid (ADONA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 21:17 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac | | |
| d5-NEtFOSAA | 106 | | 70 - 130 | 05/23/24 10:15 | 05/24/24 21:17 | 1 | | |
| 13C2 PFHxA | 110 | | 70 - 130 | 05/23/24 10:15 | 05/24/24 21:17 | 1 | | |
| 13C2 PFDA | 106 | | 70 - 130 | 05/23/24 10:15 | 05/24/24 21:17 | 1 | | |
| 13C3-GenX | 100 | | 70 - 130 | 05/23/24 10:15 | 05/24/24 21:17 | 1 | | |

Client Sample ID: FB: AIEA WELLS PUMPS 1&2 (260) P2

Lab Sample ID: 380-96902-7

Date Collected: 05/20/24 11:27

Matrix: Water

Date Received: 05/22/24 10:34

Method: EPA 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|--------|-----------|-----|------|---|----------------|----------------|---------|
| 11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 16:48 | 1 |
| 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 16:48 | 1 |
| 4,8-Dioxa-3H-perfluorononanoic acid (ADONA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 16:48 | 1 |
| Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 16:48 | 1 |
| Perfluorobutanesulfonic acid (PFBS) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 16:48 | 1 |
| Perfluorodecanoic acid (PFDA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 16:48 | 1 |

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-96902-1
SDG: 525.2, 533, 537.1

Client Sample ID: FB: AIEA WELLS PUMPS 1&2 (260) P2

Lab Sample ID: 380-96902-7

Date Collected: 05/20/24 11:27

Matrix: Water

Date Received: 05/22/24 10:34

Method: EPA 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water (Continued)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|--------|-----------|-----|------|---|----------------|----------------|---------|
| Perfluorododecanoic acid (PFDoA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 16:48 | 1 |
| Perfluoroheptanoic acid (PFHpA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 16:48 | 1 |
| Perfluorohexanesulfonic acid (PFHxS) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 16:48 | 1 |
| Perfluorohexanoic acid (PFHxA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 16:48 | 1 |
| Perfluorononanoic acid (PFNA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 16:48 | 1 |
| Perfluorooctanesulfonic acid (PFOS) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 16:48 | 1 |
| Perfluorooctanoic acid (PFOA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 16:48 | 1 |
| Perfluoroundecanoic acid (PFUnA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 16:48 | 1 |
| Perfluorobutanoic acid (PFBA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 16:48 | 1 |
| 1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 16:48 | 1 |
| 1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 16:48 | 1 |
| 1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 16:48 | 1 |
| Nonafluoro-3,6-dioxaheptanoic acid (NFDHA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 16:48 | 1 |
| Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 16:48 | 1 |
| Perfluoro-3-methoxypropanoic acid (PFMPA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 16:48 | 1 |
| Perfluoro-4-methoxybutanoic acid (PFMBA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 16:48 | 1 |
| Perfluoropentanoic acid (PFPeA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 16:48 | 1 |
| Perfluoroheptanesulfonic acid (PFHpS) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 16:48 | 1 |
| Perfluoropentanesulfonic acid (PFPeS) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 16:48 | 1 |

| Isotope Dilution | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------|-----------|-----------|----------|----------------|----------------|---------|
| 13C3 HFPO-DA | 99 | | 50 - 200 | 05/23/24 10:26 | 05/24/24 16:48 | 1 |
| 13C6 PFDA | 101 | | 50 - 200 | 05/23/24 10:26 | 05/24/24 16:48 | 1 |
| 13C5 PFHxA | 101 | | 50 - 200 | 05/23/24 10:26 | 05/24/24 16:48 | 1 |
| 13C4 PFHpA | 106 | | 50 - 200 | 05/23/24 10:26 | 05/24/24 16:48 | 1 |
| 13C8 PFOA | 107 | | 50 - 200 | 05/23/24 10:26 | 05/24/24 16:48 | 1 |
| 13C9 PFNA | 104 | | 50 - 200 | 05/23/24 10:26 | 05/24/24 16:48 | 1 |
| 13C7 PFUnA | 93 | | 50 - 200 | 05/23/24 10:26 | 05/24/24 16:48 | 1 |
| 13C2 PFDoA | 91 | | 50 - 200 | 05/23/24 10:26 | 05/24/24 16:48 | 1 |
| 13C4 PFBA | 102 | | 50 - 200 | 05/23/24 10:26 | 05/24/24 16:48 | 1 |
| 13C5 PFPeA | 102 | | 50 - 200 | 05/23/24 10:26 | 05/24/24 16:48 | 1 |
| 13C3 PFBS | 103 | | 50 - 200 | 05/23/24 10:26 | 05/24/24 16:48 | 1 |
| 13C3 PFHxS | 105 | | 50 - 200 | 05/23/24 10:26 | 05/24/24 16:48 | 1 |
| 13C8 PFOS | 103 | | 50 - 200 | 05/23/24 10:26 | 05/24/24 16:48 | 1 |
| 13C2-4:2-FTS | 121 | | 50 - 200 | 05/23/24 10:26 | 05/24/24 16:48 | 1 |
| 13C2-6:2-FTS | 108 | | 50 - 200 | 05/23/24 10:26 | 05/24/24 16:48 | 1 |
| 13C2-8:2-FTS | 87 | | 50 - 200 | 05/23/24 10:26 | 05/24/24 16:48 | 1 |

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|--------|-----------|-----|------|---|----------------|----------------|---------|
| Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 21:26 | 1 |
| Perfluorooctanesulfonic acid (PFOS) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 21:26 | 1 |
| Perfluoroundecanoic acid (PFUnA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 21:26 | 1 |

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-96902-1
SDG: 525.2, 533, 537.1

Client Sample ID: FB: AIEA WELLS PUMPS 1&2 (260) P2

Lab Sample ID: 380-96902-7

Date Collected: 05/20/24 11:27

Matrix: Water

Date Received: 05/22/24 10:34

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|------------------|------------------|---------------|------|---|-----------------|-----------------|----------------|
| N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 21:26 | 1 |
| N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 21:26 | 1 |
| Perfluorohexanoic acid (PFHxA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 21:26 | 1 |
| Perfluorododecanoic acid (PFDoA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 21:26 | 1 |
| Perfluorooctanoic acid (PFOA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 21:26 | 1 |
| Perfluorodecanoic acid (PFDA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 21:26 | 1 |
| Perfluorohexanesulfonic acid (PFHxS) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 21:26 | 1 |
| Perfluorobutanesulfonic acid (PFBS) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 21:26 | 1 |
| Perfluoroheptanoic acid (PFHpA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 21:26 | 1 |
| Perfluorononanoic acid (PFNA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 21:26 | 1 |
| Perfluorotetradecanoic acid (PFTA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 21:26 | 1 |
| Perfluorotridecanoic acid (PFTrDA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 21:26 | 1 |
| 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 21:26 | 1 |
| 11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 21:26 | 1 |
| 4,8-Dioxa-3H-perfluorononanoic acid (ADONA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 21:26 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| d5-NEtFOSAA | 110 | | 70 - 130 | | | 05/23/24 10:15 | 05/24/24 21:26 | 1 |
| 13C2 PFHxA | 109 | | 70 - 130 | | | 05/23/24 10:15 | 05/24/24 21:26 | 1 |
| 13C2 PFDA | 106 | | 70 - 130 | | | 05/23/24 10:15 | 05/24/24 21:26 | 1 |
| 13C3-GenX | 103 | | 70 - 130 | | | 05/23/24 10:15 | 05/24/24 21:26 | 1 |

Client Sample ID: FB: HALAWA WELLS UNITS 1&2 P1

Lab Sample ID: 380-96902-8

Date Collected: 05/20/24 10:35

Matrix: Water

Date Received: 05/22/24 10:34

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|--------|-----------|-----|------|---|----------------|----------------|---------|
| Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 21:36 | 1 |
| Perfluorooctanesulfonic acid (PFOS) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 21:36 | 1 |
| Perfluoroundecanoic acid (PFUnA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 21:36 | 1 |
| N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 21:36 | 1 |
| N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 21:36 | 1 |
| Perfluorohexanoic acid (PFHxA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 21:36 | 1 |
| Perfluorododecanoic acid (PFDoA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 21:36 | 1 |
| Perfluorooctanoic acid (PFOA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 21:36 | 1 |
| Perfluorodecanoic acid (PFDA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 21:36 | 1 |
| Perfluorohexanesulfonic acid (PFHxS) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 21:36 | 1 |
| Perfluorobutanesulfonic acid (PFBS) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 21:36 | 1 |
| Perfluoroheptanoic acid (PFHpA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 21:36 | 1 |
| Perfluorononanoic acid (PFNA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 21:36 | 1 |
| Perfluorotetradecanoic acid (PFTA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 21:36 | 1 |
| Perfluorotridecanoic acid (PFTrDA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 21:36 | 1 |

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-96902-1
 SDG: 525.2, 533, 537.1

Client Sample ID: FB: HALAWA WELLS UNITS 1&2 P1

Lab Sample ID: 380-96902-8

Date Collected: 05/20/24 10:35

Matrix: Water

Date Received: 05/22/24 10:34

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|-----------|-----------|----------|------|---|----------------|----------------|---------|
| 9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 21:36 | 1 |
| 11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 21:36 | 1 |
| 4,8-Dioxa-3H-perfluorononanoic acid (ADONA) | <2.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 21:36 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| d5-NEtFOSAA | 106 | | 70 - 130 | | | 05/23/24 10:15 | 05/24/24 21:36 | 1 |
| 13C2 PFHxA | 106 | | 70 - 130 | | | 05/23/24 10:15 | 05/24/24 21:36 | 1 |
| 13C2 PFDA | 108 | | 70 - 130 | | | 05/23/24 10:15 | 05/24/24 21:36 | 1 |
| 13C3-GenX | 101 | | 70 - 130 | | | 05/23/24 10:15 | 05/24/24 21:36 | 1 |

Action Limit Summary

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

Job ID: 380-96902-1
SDG: 525.2, 533, 537.1

Client Sample ID: MOANALUA WELLS

Lab Sample ID: 380-96902-1

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 | <0.097 | | ug/L | 2 | 0.097 | 525.2 | Total/NA |
| Heptachlor | <0.039 | | ug/L | 0.4 | 0.039 | 525.2 | Total/NA |
| Heptachlor epoxide (isomer B) | <0.049 | | ug/L | 0.2 | 0.049 | 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 | <0.039 | | ug/L | 0.2 | 0.039 | 525.2 | Total/NA |
| Methoxychlor | <0.097 | | ug/L | 40 | 0.097 | 525.2 | Total/NA |
| Simazine | <0.049 | | ug/L | 4 | 0.049 | 525.2 | Total/NA |
| Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX) | <2.0 | | ng/L | 10 | 2.0 | 533 | Total/NA |
| Perfluorohexanesulfonic acid (PFHxS) | <2.0 | | ng/L | 10 | 2.0 | 533 | Total/NA |
| Perfluorononanoic acid (PFNA) | <2.0 | | ng/L | 10 | 2.0 | 533 | Total/NA |
| Perfluorooctanesulfonic acid (PFOS) | <2.0 | | ng/L | 4 | 2.0 | 533 | Total/NA |
| Perfluorooctanoic acid (PFOA) | <2.0 | | ng/L | 4 | 2.0 | 533 | Total/NA |
| Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX) | <2.0 | | ng/L | 10 | 2.0 | 537.1 | Total/NA |
| Perfluorooctanesulfonic acid (PFOS) | <2.0 | | ng/L | 4 | 2.0 | 537.1 | Total/NA |
| Perfluorooctanoic acid (PFOA) | <2.0 | | ng/L | 4 | 2.0 | 537.1 | Total/NA |
| Perfluorohexanesulfonic acid (PFHxS) | <2.0 | | ng/L | 10 | 2.0 | 537.1 | Total/NA |
| Perfluorononanoic acid (PFNA) | <2.0 | | ng/L | 10 | 2.0 | 537.1 | Total/NA |

Client Sample ID: AIEA GULCH WELLS PUMP 2

Lab Sample ID: 380-96902-2

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 | <0.097 | | ug/L | 2 | 0.097 | 525.2 | Total/NA |
| Heptachlor | <0.039 | | ug/L | 0.4 | 0.039 | 525.2 | Total/NA |
| Heptachlor epoxide (isomer B) | <0.049 | | ug/L | 0.2 | 0.049 | 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 | <0.039 | | ug/L | 0.2 | 0.039 | 525.2 | Total/NA |
| Methoxychlor | <0.097 | | ug/L | 40 | 0.097 | 525.2 | Total/NA |
| Simazine | <0.049 | | ug/L | 4 | 0.049 | 525.2 | Total/NA |
| Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX) | <2.0 | | ng/L | 10 | 2.0 | 533 | Total/NA |

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Action Limit Summary

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

Job ID: 380-96902-1
SDG: 525.2, 533, 537.1

Client Sample ID: AIEA GULCH WELLS PUMP 2 (Continued)

Lab Sample ID: 380-96902-2

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 | | | |
| Perfluorohexanesulfonic acid (PFHxS) | <2.0 | | ng/L | 10 | 2.0 | 533 | Total/NA |
| Perfluorononanoic acid (PFNA) | <2.0 | | ng/L | 10 | 2.0 | 533 | Total/NA |
| Perfluorooctanesulfonic acid (PFOS) | <2.0 | | ng/L | 4 | 2.0 | 533 | Total/NA |
| Perfluorooctanoic acid (PFOA) | <2.0 | | ng/L | 4 | 2.0 | 533 | Total/NA |
| Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX) | <2.0 | | ng/L | 10 | 2.0 | 537.1 | Total/NA |
| Perfluorooctanesulfonic acid (PFOS) | <2.0 | | ng/L | 4 | 2.0 | 537.1 | Total/NA |
| Perfluorooctanoic acid (PFOA) | <2.0 | | ng/L | 4 | 2.0 | 537.1 | Total/NA |
| Perfluorohexanesulfonic acid (PFHxS) | <2.0 | | ng/L | 10 | 2.0 | 537.1 | Total/NA |
| Perfluorononanoic acid (PFNA) | <2.0 | | ng/L | 10 | 2.0 | 537.1 | Total/NA |

Client Sample ID: AIEA WELLS PUMPS 1&2 (260) P2

Lab Sample ID: 380-96902-3

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 | <0.020 | | ug/L | 0.2 | 0.020 | 525.2 | Total/NA |
| Bis(2-ethylhexyl) phthalate | <0.59 | | ug/L | 6 | 0.59 | 525.2 | Total/NA |
| Di(2-ethylhexyl)adipate | <0.59 | | ug/L | 400 | 0.59 | 525.2 | Total/NA |
| Endrin | <0.098 | | ug/L | 2 | 0.098 | 525.2 | Total/NA |
| Heptachlor | <0.039 | | ug/L | 0.4 | 0.039 | 525.2 | Total/NA |
| Heptachlor epoxide (isomer B) | <0.049 | | ug/L | 0.2 | 0.049 | 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 | <0.039 | | ug/L | 0.2 | 0.039 | 525.2 | Total/NA |
| Methoxychlor | <0.098 | | ug/L | 40 | 0.098 | 525.2 | Total/NA |
| Simazine | <0.049 | | ug/L | 4 | 0.049 | 525.2 | Total/NA |
| Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX) | <2.0 | | ng/L | 10 | 2.0 | 533 | Total/NA |
| Perfluorohexanesulfonic acid (PFHxS) | <2.0 | | ng/L | 10 | 2.0 | 533 | Total/NA |
| Perfluorononanoic acid (PFNA) | <2.0 | | ng/L | 10 | 2.0 | 533 | Total/NA |
| Perfluorooctanesulfonic acid (PFOS) | <2.0 | | ng/L | 4 | 2.0 | 533 | Total/NA |
| Perfluorooctanoic acid (PFOA) | <2.0 | | ng/L | 4 | 2.0 | 533 | Total/NA |
| Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX) | <2.0 | | ng/L | 10 | 2.0 | 537.1 | Total/NA |
| Perfluorooctanesulfonic acid (PFOS) | <2.0 | | ng/L | 4 | 2.0 | 537.1 | Total/NA |
| Perfluorooctanoic acid (PFOA) | <2.0 | | ng/L | 4 | 2.0 | 537.1 | Total/NA |
| Perfluorohexanesulfonic acid (PFHxS) | <2.0 | | ng/L | 10 | 2.0 | 537.1 | Total/NA |
| Perfluorononanoic acid (PFNA) | <2.0 | | ng/L | 10 | 2.0 | 537.1 | Total/NA |

Action Limit Summary

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

Job ID: 380-96902-1
SDG: 525.2, 533, 537.1

Client Sample ID: HALAWA WELLS UNITS 1&2 P1

Lab Sample ID: 380-96902-4

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 | | | |
| Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX) | <2.0 | | ng/L | 10 | 2.0 | 537.1 | Total/NA |
| Perfluorooctanesulfonic acid (PFOS) | 2.1 | | ng/L | 4 | 2.0 | 537.1 | Total/NA |
| Perfluorooctanoic acid (PFOA) | <2.0 | | ng/L | 4 | 2.0 | 537.1 | Total/NA |
| Perfluorohexanesulfonic acid (PFHxS) | 2.3 | | ng/L | 10 | 2.0 | 537.1 | Total/NA |
| Perfluorononanoic acid (PFNA) | <2.0 | | ng/L | 10 | 2.0 | 537.1 | Total/NA |

Client Sample ID: FB: MOANALUA WELLS

Lab Sample ID: 380-96902-5

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 | | | |
| Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX) | <2.0 | | ng/L | 10 | 2.0 | 533 | Total/NA |
| Perfluorohexanesulfonic acid (PFHxS) | <2.0 | | ng/L | 10 | 2.0 | 533 | Total/NA |
| Perfluorononanoic acid (PFNA) | <2.0 | | ng/L | 10 | 2.0 | 533 | Total/NA |
| Perfluorooctanesulfonic acid (PFOS) | <2.0 | | ng/L | 4 | 2.0 | 533 | Total/NA |
| Perfluorooctanoic acid (PFOA) | <2.0 | | ng/L | 4 | 2.0 | 533 | Total/NA |
| Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX) | <2.0 | | ng/L | 10 | 2.0 | 537.1 | Total/NA |
| Perfluorooctanesulfonic acid (PFOS) | <2.0 | | ng/L | 4 | 2.0 | 537.1 | Total/NA |
| Perfluorooctanoic acid (PFOA) | <2.0 | | ng/L | 4 | 2.0 | 537.1 | Total/NA |
| Perfluorohexanesulfonic acid (PFHxS) | <2.0 | | ng/L | 10 | 2.0 | 537.1 | Total/NA |
| Perfluorononanoic acid (PFNA) | <2.0 | | ng/L | 10 | 2.0 | 537.1 | Total/NA |

Client Sample ID: FB: AIEA GULCH WELLS PUMP 2

Lab Sample ID: 380-96902-6

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 | | | |
| Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX) | <2.0 | | ng/L | 10 | 2.0 | 533 | Total/NA |
| Perfluorohexanesulfonic acid (PFHxS) | <2.0 | | ng/L | 10 | 2.0 | 533 | Total/NA |
| Perfluorononanoic acid (PFNA) | <2.0 | | ng/L | 10 | 2.0 | 533 | Total/NA |
| Perfluorooctanesulfonic acid (PFOS) | <2.0 | | ng/L | 4 | 2.0 | 533 | Total/NA |
| Perfluorooctanoic acid (PFOA) | <2.0 | | ng/L | 4 | 2.0 | 533 | Total/NA |
| Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX) | <2.0 | | ng/L | 10 | 2.0 | 537.1 | Total/NA |
| Perfluorooctanesulfonic acid (PFOS) | <2.0 | | ng/L | 4 | 2.0 | 537.1 | Total/NA |
| Perfluorooctanoic acid (PFOA) | <2.0 | | ng/L | 4 | 2.0 | 537.1 | Total/NA |
| Perfluorohexanesulfonic acid (PFHxS) | <2.0 | | ng/L | 10 | 2.0 | 537.1 | Total/NA |
| Perfluorononanoic acid (PFNA) | <2.0 | | ng/L | 10 | 2.0 | 537.1 | Total/NA |

Action Limit Summary

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

Job ID: 380-96902-1
SDG: 525.2, 533, 537.1

Client Sample ID: FB: AIEA WELLS PUMPS 1&2 (260) P2

Lab Sample ID: 380-96902-7

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 | | | |
| Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX) | <2.0 | | ng/L | 10 | 2.0 | 533 | Total/NA |
| Perfluorohexanesulfonic acid (PFHxS) | <2.0 | | ng/L | 10 | 2.0 | 533 | Total/NA |
| Perfluorononanoic acid (PFNA) | <2.0 | | ng/L | 10 | 2.0 | 533 | Total/NA |
| Perfluorooctanesulfonic acid (PFOS) | <2.0 | | ng/L | 4 | 2.0 | 533 | Total/NA |
| Perfluorooctanoic acid (PFOA) | <2.0 | | ng/L | 4 | 2.0 | 533 | Total/NA |
| Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX) | <2.0 | | ng/L | 10 | 2.0 | 537.1 | Total/NA |
| Perfluorooctanesulfonic acid (PFOS) | <2.0 | | ng/L | 4 | 2.0 | 537.1 | Total/NA |
| Perfluorooctanoic acid (PFOA) | <2.0 | | ng/L | 4 | 2.0 | 537.1 | Total/NA |
| Perfluorohexanesulfonic acid (PFHxS) | <2.0 | | ng/L | 10 | 2.0 | 537.1 | Total/NA |
| Perfluorononanoic acid (PFNA) | <2.0 | | ng/L | 10 | 2.0 | 537.1 | Total/NA |

Client Sample ID: FB: HALAWA WELLS UNITS 1&2 P1

Lab Sample ID: 380-96902-8

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 | | | |
| Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX) | <2.0 | | ng/L | 10 | 2.0 | 537.1 | Total/NA |
| Perfluorooctanesulfonic acid (PFOS) | <2.0 | | ng/L | 4 | 2.0 | 537.1 | Total/NA |
| Perfluorooctanoic acid (PFOA) | <2.0 | | ng/L | 4 | 2.0 | 537.1 | Total/NA |
| Perfluorohexanesulfonic acid (PFHxS) | <2.0 | | ng/L | 10 | 2.0 | 537.1 | Total/NA |
| Perfluorononanoic acid (PFNA) | <2.0 | | ng/L | 10 | 2.0 | 537.1 | Total/NA |

Surrogate Summary

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

Job ID: 380-96902-1
SDG: 525.2, 533, 537.1

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) |
| 380-96902-1 | MOANALUA WELLS | 98 | 92 | 106 |
| 380-96902-1 MS | MOANALUA WELLS | 97 | 96 | 114 |
| 380-96902-2 | AIEA GULCH WELLS PUMP 2 | 98 | 96 | 109 |
| 380-96902-2 DU | AIEA GULCH WELLS PUMP 2 | 101 | 95 | 113 |
| 380-96902-3 | AIEA WELLS PUMPS 1&2 (260) P2 | 96 | 90 | 96 |
| LCS 380-92588/23-A | Lab Control Sample | 95 | 97 | 113 |
| LCS 380-92588/24-A | Lab Control Sample Dup | 94 | 97 | 111 |
| MB 380-92588/21-A | Method Blank | 97 | 97 | 109 |
| MRL 380-92588/22-A | Lab Control Sample | 96 | 98 | 108 |

Surrogate Legend

2NMX = 2-Nitro-m-xylene

PRY = Perylene-d12

TPP = Triphenylphosphate

Method: 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Matrix: Water

Prep Type: Total/NA

| Lab Sample ID | Client Sample ID | Percent Surrogate Recovery (Acceptance Limits) | | | |
|---------------------|--------------------------------------|--|-------------------|------------------|------------------|
| | | d5NEFOS (70-130) | PFHxA (70-130) | PFDA (70-130) | GenX (70-130) |
| 380-96888-A-1-B MS | Matrix Spike | 97 | 103 | 100 | 94 |
| 380-96888-A-1-C MSD | Matrix Spike Duplicate | 100 | 104 | 103 | 100 |
| 380-96902-1 | MOANALUA WELLS | 101 | 106 | 109 | 96 |
| 380-96902-2 | AIEA GULCH WELLS PUMP 2 | 104 | 109 | 110 | 103 |
| 380-96902-3 | AIEA WELLS PUMPS 1&2 (260) P2 | 100 | 112 | 105 | 99 |
| 380-96902-4 | HALAWA WELLS UNITS 1&2 P1 | 98 | 111 | 108 | 101 |
| 380-96902-5 | FB: MOANALUA WELLS | 102 | 108 | 111 | 98 |
| 380-96902-6 | FB: AIEA GULCH WELLS PUMF 2 | 106 | 110 | 106 | 100 |
| 380-96902-7 | FB: AIEA WELLS PUMPS 1&2 (260) P2 | 110 | 109 | 106 | 103 |
| 380-96902-8 | FB: HALAWA WELLS UNITS 1&2 P1 | 106 | 106 | 108 | 101 |
| LCS 380-91928/23-A | Lab Control Sample | 103 | 104 | 104 | 101 |
| MBL 380-91928/21-A | Method Blank | 103 | 107 | 100 | 97 |
| MRL 380-91928/22-A | Lab Control Sample | 94 | 100 | 97 | 87 |

Surrogate Legend

d5NEFOS = d5-NEtFOSAA

PFHxA = 13C2 PFHxA

PFDA = 13C2 PFDA

GenX = 13C3-GenX

Isotope Dilution Summary

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

Job ID: 380-96902-1
SDG: 525.2, 533, 537.1

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water

Matrix: Water

Prep Type: Total/NA

| | | Percent Isotope Dilution Recovery (Acceptance Limits) | | | | | | | |
|---------------------|-----------------------------------|---|--------------------|---------------------|--------------------|--------------------|--------------------|---------------------|-------------------|
| Lab Sample ID | Client Sample ID | HFPODA (50-200) | C6PFDA (50-200) | 13C5PHA (50-200) | C4PFHA (50-200) | C8PFOA (50-200) | C9PFNA (50-200) | 13C7PUA (50-200) | PFDoA (50-200) |
| 380-96888-D-1-B MS | Matrix Spike | 88 | 99 | 89 | 95 | 99 | 102 | 93 | 94 |
| 380-96888-D-1-C MSD | Matrix Spike Duplicate | 81 | 92 | 80 | 83 | 87 | 91 | 83 | 89 |
| 380-96902-1 | MOANALUA WELLS | 72 | 72 | 80 | 82 | 84 | 78 | 68 | 71 |
| 380-96902-2 | AIEA GULCH WELLS PUMP 2 | 66 | 57 | 73 | 75 | 70 | 60 | 60 | 67 |
| 380-96902-3 | AIEA WELLS PUMPS 1&2 (260) P2 | 94 | 97 | 95 | 104 | 104 | 104 | 88 | 86 |
| 380-96902-5 | FB: MOANALUA WELLS | 102 | 101 | 103 | 108 | 109 | 107 | 94 | 93 |
| 380-96902-6 | FB: AIEA GULCH WELLS PUMF 2 | 96 | 97 | 100 | 105 | 101 | 101 | 85 | 90 |
| 380-96902-7 | FB: AIEA WELLS PUMPS 1&2 (260) P2 | 99 | 101 | 101 | 106 | 107 | 104 | 93 | 91 |
| LCS 380-91953/24-A | Lab Control Sample | 95 | 104 | 98 | 101 | 106 | 107 | 96 | 97 |
| MBL 380-91953/22-A | Method Blank | 88 | 97 | 95 | 101 | 102 | 102 | 88 | 89 |
| MRL 380-91953/23-A | Lab Control Sample | 89 | 98 | 96 | 104 | 103 | 101 | 91 | 89 |

| | | Percent Isotope Dilution Recovery (Acceptance Limits) | | | | | | | |
|---------------------|-----------------------------------|---|-------------------|--------------------|--------------------|--------------------|-------------------|-------------------|-------------------|
| Lab Sample ID | Client Sample ID | PFBA (50-200) | PFPeA (50-200) | C3PFBS (50-200) | C3PFHS (50-200) | C8PFOS (50-200) | 42FTS (50-200) | 62FTS (50-200) | 82FTS (50-200) |
| 380-96888-D-1-B MS | Matrix Spike | 92 | 105 | 108 | 112 | 108 | 116 | 105 | 98 |
| 380-96888-D-1-C MSD | Matrix Spike Duplicate | 84 | 93 | 99 | 106 | 100 | 112 | 102 | 94 |
| 380-96902-1 | MOANALUA WELLS | 88 | 93 | 96 | 99 | 98 | 120 | 111 | 86 |
| 380-96902-2 | AIEA GULCH WELLS PUMP 2 | 81 | 82 | 103 | 106 | 100 | 126 | 109 | 88 |
| 380-96902-3 | AIEA WELLS PUMPS 1&2 (260) P2 | 101 | 106 | 102 | 105 | 101 | 122 | 103 | 86 |
| 380-96902-5 | FB: MOANALUA WELLS | 103 | 108 | 105 | 108 | 105 | 123 | 105 | 93 |
| 380-96902-6 | FB: AIEA GULCH WELLS PUMF 2 | 100 | 100 | 107 | 109 | 104 | 120 | 104 | 90 |
| 380-96902-7 | FB: AIEA WELLS PUMPS 1&2 (260) P2 | 102 | 102 | 103 | 105 | 103 | 121 | 108 | 87 |
| LCS 380-91953/24-A | Lab Control Sample | 102 | 104 | 109 | 106 | 106 | 114 | 105 | 93 |
| MBL 380-91953/22-A | Method Blank | 96 | 103 | 102 | 104 | 99 | 115 | 99 | 86 |
| MRL 380-91953/23-A | Lab Control Sample | 102 | 101 | 103 | 103 | 101 | 118 | 100 | 87 |

Surrogate Legend

- HFPODA = 13C3 HFPO-DA
- C6PFDA = 13C6 PFDA
- 13C5PHA = 13C5 PFHxA
- C4PFHA = 13C4 PFHpA
- C8PFOA = 13C8 PFOA
- C9PFNA = 13C9 PFNA
- 13C7PUA = 13C7 PFUnA
- PFDoA = 13C2 PFDoA
- PFBA = 13C4 PFBA
- PFPeA = 13C5 PFPeA
- C3PFBS = 13C3 PFBS
- C3PFHS = 13C3 PFHxS
- C8PFOS = 13C8 PFOS
- 42FTS = 13C2-4:2-FTS
- 62FTS = 13C2-6:2-FTS
- 82FTS = 13C2-8:2-FTS

QC Sample Results

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

Job ID: 380-96902-1
SDG: 525.2, 533, 537.1

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

Lab Sample ID: MB 380-92588/21-A
Matrix: Water
Analysis Batch: 92797

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 92588

| Analyte | MB | MB | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------------------|--------|-----------|-------|------|---|----------------|----------------|---------|
| | Result | Qualifier | | | | | | |
| 1-Methylnaphthalene | <0.099 | | 0.099 | ug/L | | 05/29/24 10:30 | 05/30/24 12:29 | 1 |
| 2,4'-DDD | <0.099 | | 0.099 | ug/L | | 05/29/24 10:30 | 05/30/24 12:29 | 1 |
| 2,4'-DDE | <0.099 | | 0.099 | ug/L | | 05/29/24 10:30 | 05/30/24 12:29 | 1 |
| 2,4'-DDT | <0.099 | | 0.099 | ug/L | | 05/29/24 10:30 | 05/30/24 12:29 | 1 |
| 2,4-Dinitrotoluene | <0.099 | | 0.099 | ug/L | | 05/29/24 10:30 | 05/30/24 12:29 | 1 |
| 2,6-Dinitrotoluene | <0.099 | | 0.099 | ug/L | | 05/29/24 10:30 | 05/30/24 12:29 | 1 |
| 2-Methylnaphthalene | <0.099 | | 0.099 | ug/L | | 05/29/24 10:30 | 05/30/24 12:29 | 1 |
| 4,4'-DDD | <0.099 | | 0.099 | ug/L | | 05/29/24 10:30 | 05/30/24 12:29 | 1 |
| 4,4'-DDE | <0.099 | | 0.099 | ug/L | | 05/29/24 10:30 | 05/30/24 12:29 | 1 |
| 4,4'-DDT | <0.099 | | 0.099 | ug/L | | 05/29/24 10:30 | 05/30/24 12:29 | 1 |
| Acenaphthene | <0.099 | | 0.099 | ug/L | | 05/29/24 10:30 | 05/30/24 12:29 | 1 |
| Acenaphthylene | <0.099 | | 0.099 | ug/L | | 05/29/24 10:30 | 05/30/24 12:29 | 1 |
| Acetochlor | <0.099 | | 0.099 | ug/L | | 05/29/24 10:30 | 05/30/24 12:29 | 1 |
| Alachlor | <0.050 | | 0.050 | ug/L | | 05/29/24 10:30 | 05/30/24 12:29 | 1 |
| alpha-BHC | <0.099 | | 0.099 | ug/L | | 05/29/24 10:30 | 05/30/24 12:29 | 1 |
| alpha-Chlordane | <0.050 | | 0.050 | ug/L | | 05/29/24 10:30 | 05/30/24 12:29 | 1 |
| Anthracene | <0.020 | | 0.020 | ug/L | | 05/29/24 10:30 | 05/30/24 12:29 | 1 |
| Atrazine | <0.050 | | 0.050 | ug/L | | 05/29/24 10:30 | 05/30/24 12:29 | 1 |
| Benz(a)anthracene | <0.050 | | 0.050 | ug/L | | 05/29/24 10:30 | 05/30/24 12:29 | 1 |
| Benzo[a]pyrene | <0.020 | | 0.020 | ug/L | | 05/29/24 10:30 | 05/30/24 12:29 | 1 |
| Benzo[b]fluoranthene | <0.020 | | 0.020 | ug/L | | 05/29/24 10:30 | 05/30/24 12:29 | 1 |
| Benzo[g,h,i]perylene | <0.050 | | 0.050 | ug/L | | 05/29/24 10:30 | 05/30/24 12:29 | 1 |
| Benzo[k]fluoranthene | <0.020 | | 0.020 | ug/L | | 05/29/24 10:30 | 05/30/24 12:29 | 1 |
| beta-BHC | <0.099 | | 0.099 | ug/L | | 05/29/24 10:30 | 05/30/24 12:29 | 1 |
| Bis(2-ethylhexyl) phthalate | <0.59 | | 0.59 | ug/L | | 05/29/24 10:30 | 05/30/24 12:29 | 1 |
| Bromacil | <0.099 | | 0.099 | ug/L | | 05/29/24 10:30 | 05/30/24 12:29 | 1 |
| Butachlor | <0.050 | | 0.050 | ug/L | | 05/29/24 10:30 | 05/30/24 12:29 | 1 |
| Butylbenzylphthalate | <0.50 | | 0.50 | ug/L | | 05/29/24 10:30 | 05/30/24 12:29 | 1 |
| Chlorobenzilate | <0.099 | | 0.099 | ug/L | | 05/29/24 10:30 | 05/30/24 12:29 | 1 |
| Chloroneb | <0.099 | | 0.099 | ug/L | | 05/29/24 10:30 | 05/30/24 12:29 | 1 |
| Chlorothalonil (Draconil, Bravo) | <0.099 | | 0.099 | ug/L | | 05/29/24 10:30 | 05/30/24 12:29 | 1 |
| Chlorpyrifos | <0.050 | | 0.050 | ug/L | | 05/29/24 10:30 | 05/30/24 12:29 | 1 |
| Chrysene | <0.020 | | 0.020 | ug/L | | 05/29/24 10:30 | 05/30/24 12:29 | 1 |
| delta-BHC | <0.099 | | 0.099 | ug/L | | 05/29/24 10:30 | 05/30/24 12:29 | 1 |
| Di(2-ethylhexyl)adipate | <0.59 | | 0.59 | ug/L | | 05/29/24 10:30 | 05/30/24 12:29 | 1 |
| Dibenz(a,h)anthracene | <0.050 | | 0.050 | ug/L | | 05/29/24 10:30 | 05/30/24 12:29 | 1 |
| Diclorvos (DDVP) | <0.050 | | 0.050 | ug/L | | 05/29/24 10:30 | 05/30/24 12:29 | 1 |
| Dieldrin | <0.20 | | 0.20 | ug/L | | 05/29/24 10:30 | 05/30/24 12:29 | 1 |
| Diethylphthalate | <0.50 | | 0.50 | ug/L | | 05/29/24 10:30 | 05/30/24 12:29 | 1 |
| Dimethylphthalate | <0.50 | | 0.50 | ug/L | | 05/29/24 10:30 | 05/30/24 12:29 | 1 |
| Di-n-butyl phthalate | <0.99 | | 0.99 | ug/L | | 05/29/24 10:30 | 05/30/24 12:29 | 1 |
| Di-n-octyl phthalate | <0.099 | | 0.099 | ug/L | | 05/29/24 10:30 | 05/30/24 12:29 | 1 |
| Endosulfan I (Alpha) | <0.099 | | 0.099 | ug/L | | 05/29/24 10:30 | 05/30/24 12:29 | 1 |
| Endosulfan II (Beta) | <0.099 | | 0.099 | ug/L | | 05/29/24 10:30 | 05/30/24 12:29 | 1 |
| Endosulfan sulfate | <0.099 | | 0.099 | ug/L | | 05/29/24 10:30 | 05/30/24 12:29 | 1 |
| Endrin | <0.099 | | 0.099 | ug/L | | 05/29/24 10:30 | 05/30/24 12:29 | 1 |
| Endrin aldehyde | <0.099 | | 0.099 | ug/L | | 05/29/24 10:30 | 05/30/24 12:29 | 1 |
| EPTC | <0.099 | | 0.099 | ug/L | | 05/29/24 10:30 | 05/30/24 12:29 | 1 |

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-96902-1
SDG: 525.2, 533, 537.1

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

Lab Sample ID: MB 380-92588/21-A
Matrix: Water
Analysis Batch: 92797

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 92588

| Analyte | MB Result | MB Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------------------|-----------|--------------|-------|------|---|----------------|----------------|---------|
| Fluoranthene | <0.099 | | 0.099 | ug/L | | 05/29/24 10:30 | 05/30/24 12:29 | 1 |
| Fluorene | <0.050 | | 0.050 | ug/L | | 05/29/24 10:30 | 05/30/24 12:29 | 1 |
| gamma-Chlordane | <0.050 | | 0.050 | ug/L | | 05/29/24 10:30 | 05/30/24 12:29 | 1 |
| Heptachlor | <0.040 | | 0.040 | ug/L | | 05/29/24 10:30 | 05/30/24 12:29 | 1 |
| Heptachlor epoxide (isomer B) | <0.050 | | 0.050 | ug/L | | 05/29/24 10:30 | 05/30/24 12:29 | 1 |
| Hexachlorobenzene | <0.050 | | 0.050 | ug/L | | 05/29/24 10:30 | 05/30/24 12:29 | 1 |
| Hexachlorocyclopentadiene | <0.050 | | 0.050 | ug/L | | 05/29/24 10:30 | 05/30/24 12:29 | 1 |
| Indeno[1,2,3-cd]pyrene | <0.050 | | 0.050 | ug/L | | 05/29/24 10:30 | 05/30/24 12:29 | 1 |
| Isophorone | <0.50 | | 0.50 | ug/L | | 05/29/24 10:30 | 05/30/24 12:29 | 1 |
| Lindane | <0.040 | | 0.040 | ug/L | | 05/29/24 10:30 | 05/30/24 12:29 | 1 |
| Malathion | <0.099 | | 0.099 | ug/L | | 05/29/24 10:30 | 05/30/24 12:29 | 1 |
| Methoxychlor | <0.099 | | 0.099 | ug/L | | 05/29/24 10:30 | 05/30/24 12:29 | 1 |
| Metolachlor | <0.050 | | 0.050 | ug/L | | 05/29/24 10:30 | 05/30/24 12:29 | 1 |
| Molinate | <0.099 | | 0.099 | ug/L | | 05/29/24 10:30 | 05/30/24 12:29 | 1 |
| Naphthalene | <0.30 | | 0.30 | ug/L | | 05/29/24 10:30 | 05/30/24 12:29 | 1 |
| Parathion | <0.099 | | 0.099 | ug/L | | 05/29/24 10:30 | 05/30/24 12:29 | 1 |
| Pendimethalin (Penoxaline) | <0.099 | | 0.099 | ug/L | | 05/29/24 10:30 | 05/30/24 12:29 | 1 |
| Phenanthrene | <0.040 | | 0.040 | ug/L | | 05/29/24 10:30 | 05/30/24 12:29 | 1 |
| Propachlor | <0.050 | | 0.050 | ug/L | | 05/29/24 10:30 | 05/30/24 12:29 | 1 |
| Pyrene | <0.050 | | 0.050 | ug/L | | 05/29/24 10:30 | 05/30/24 12:29 | 1 |
| Simazine | <0.050 | | 0.050 | ug/L | | 05/29/24 10:30 | 05/30/24 12:29 | 1 |
| Terbacil | <0.099 | | 0.099 | ug/L | | 05/29/24 10:30 | 05/30/24 12:29 | 1 |
| Terbutylazine | <0.099 | | 0.099 | ug/L | | 05/29/24 10:30 | 05/30/24 12:29 | 1 |
| Thiobencarb | <0.20 | | 0.20 | ug/L | | 05/29/24 10:30 | 05/30/24 12:29 | 1 |
| Total Permethrin (mixed isomers) | <0.20 | | 0.20 | ug/L | | 05/29/24 10:30 | 05/30/24 12:29 | 1 |
| trans-Nonachlor | <0.050 | | 0.050 | ug/L | | 05/29/24 10:30 | 05/30/24 12:29 | 1 |
| Trifluralin | <0.099 | | 0.099 | ug/L | | 05/29/24 10:30 | 05/30/24 12:29 | 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 | 05/29/24 10:30 | 05/30/24 12:29 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|--------------------|--------------|--------------|----------|----------------|----------------|---------|
| 2-Nitro-m-xylene | 97 | | 70 - 130 | 05/29/24 10:30 | 05/30/24 12:29 | 1 |
| Perylene-d12 | 97 | | 70 - 130 | 05/29/24 10:30 | 05/30/24 12:29 | 1 |
| Triphenylphosphate | 109 | | 70 - 130 | 05/29/24 10:30 | 05/30/24 12:29 | 1 |

Lab Sample ID: LCS 380-92588/23-A
Matrix: Water
Analysis Batch: 92797

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 92588

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | Limits |
|---------------------|-------------|------------|---------------|------|---|------|----------|
| 1-Methylnaphthalene | 1.98 | 2.01 | | ug/L | | 101 | 70 - 130 |
| 2,4'-DDD | 1.98 | 2.29 | | ug/L | | 115 | 70 - 130 |
| 2,4'-DDE | 1.98 | 2.09 | | ug/L | | 105 | 70 - 130 |
| 2,4'-DDT | 1.98 | 2.37 | | ug/L | | 120 | 70 - 130 |
| 2,4-Dinitrotoluene | 1.98 | 2.12 | | ug/L | | 107 | 70 - 130 |
| 2,6-Dinitrotoluene | 1.98 | 2.10 | | ug/L | | 106 | 70 - 130 |
| 2-Methylnaphthalene | 1.98 | 2.05 | | ug/L | | 103 | 70 - 130 |

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-96902-1
SDG: 525.2, 533, 537.1

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

Lab Sample ID: LCS 380-92588/23-A
Matrix: Water
Analysis Batch: 92797

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 92588

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------------------------------|-------------|------------|---------------|------|---|------|-------------|
| 4,4'-DDD | 1.98 | 2.29 | | ug/L | | 116 | 70 - 130 |
| 4,4'-DDE | 1.98 | 2.24 | | ug/L | | 113 | 70 - 130 |
| 4,4'-DDT | 1.98 | 2.14 | | ug/L | | 108 | 70 - 130 |
| Acenaphthene | 1.98 | 1.90 | | ug/L | | 96 | 70 - 130 |
| Acenaphthylene | 1.98 | 2.00 | | ug/L | | 101 | 70 - 130 |
| Acetochlor | 1.98 | 2.11 | | ug/L | | 106 | 70 - 130 |
| Alachlor | 1.98 | 2.11 | | ug/L | | 107 | 70 - 130 |
| alpha-BHC | 1.98 | 1.97 | | ug/L | | 99 | 70 - 130 |
| alpha-Chlordane | 1.98 | 2.16 | | ug/L | | 109 | 70 - 130 |
| Anthracene | 1.98 | 1.60 | | ug/L | | 81 | 70 - 130 |
| Atrazine | 1.98 | 2.34 | | ug/L | | 118 | 70 - 130 |
| Benz(a)anthracene | 1.98 | 2.00 | | ug/L | | 101 | 70 - 130 |
| Benzo[a]pyrene | 1.98 | 1.93 | | ug/L | | 97 | 70 - 130 |
| Benzo[b]fluoranthene | 1.98 | 2.20 | | ug/L | | 111 | 70 - 130 |
| Benzo[g,h,i]perylene | 1.98 | 1.99 | | ug/L | | 100 | 70 - 130 |
| Benzo[k]fluoranthene | 1.98 | 2.18 | | ug/L | | 110 | 70 - 130 |
| beta-BHC | 1.98 | 2.05 | | ug/L | | 104 | 70 - 130 |
| Bis(2-ethylhexyl) phthalate | 1.98 | 2.20 | | ug/L | | 111 | 70 - 130 |
| Bromacil | 1.98 | 2.50 | | ug/L | | 126 | 70 - 130 |
| Butachlor | 1.98 | 2.28 | | ug/L | | 115 | 70 - 130 |
| Butylbenzylphthalate | 1.98 | 2.35 | | ug/L | | 119 | 70 - 130 |
| Chlorobenzilate | 1.98 | 2.06 | | ug/L | | 104 | 70 - 130 |
| Chloroneb | 1.98 | 2.00 | | ug/L | | 101 | 70 - 130 |
| Chlorothalonil (Draconil, Bravo) | 1.98 | 2.28 | | ug/L | | 115 | 70 - 130 |
| Chlorpyrifos | 1.98 | 2.24 | | ug/L | | 113 | 70 - 130 |
| Chrysene | 1.98 | 2.11 | | ug/L | | 106 | 70 - 130 |
| delta-BHC | 1.98 | 1.95 | | ug/L | | 98 | 70 - 130 |
| Di(2-ethylhexyl)adipate | 1.98 | 2.48 | | ug/L | | 125 | 70 - 130 |
| Dibenz(a,h)anthracene | 1.98 | 2.08 | | ug/L | | 105 | 70 - 130 |
| Diclorvos (DDVP) | 1.98 | 2.26 | | ug/L | | 114 | 70 - 130 |
| Dieldrin | 1.98 | 2.00 | | ug/L | | 101 | 70 - 130 |
| Diethylphthalate | 1.98 | 2.12 | | ug/L | | 107 | 70 - 130 |
| Dimethylphthalate | 1.98 | 2.14 | | ug/L | | 108 | 70 - 130 |
| Di-n-butyl phthalate | 3.96 | 4.28 | | ug/L | | 108 | 70 - 130 |
| Di-n-octyl phthalate | 1.98 | 2.09 | | ug/L | | 105 | 70 - 130 |
| Endosulfan I (Alpha) | 1.98 | 1.96 | | ug/L | | 99 | 70 - 130 |
| Endosulfan II (Beta) | 1.98 | 2.07 | | ug/L | | 104 | 70 - 130 |
| Endosulfan sulfate | 1.98 | 2.21 | | ug/L | | 112 | 70 - 130 |
| Endrin | 1.98 | 2.17 | | ug/L | | 110 | 70 - 130 |
| Endrin aldehyde | 1.98 | 1.58 | | ug/L | | 80 | 60 - 130 |
| EPTC | 1.98 | 2.36 | | ug/L | | 119 | 70 - 130 |
| Fluoranthene | 1.98 | 2.17 | | ug/L | | 109 | 70 - 130 |
| Fluorene | 1.98 | 2.11 | | ug/L | | 106 | 70 - 130 |
| gamma-Chlordane | 1.98 | 2.25 | | ug/L | | 113 | 70 - 130 |
| Heptachlor | 1.98 | 2.16 | | ug/L | | 109 | 70 - 130 |
| Heptachlor epoxide (isomer B) | 1.98 | 2.15 | | ug/L | | 108 | 70 - 130 |
| Hexachlorobenzene | 1.98 | 2.03 | | ug/L | | 102 | 70 - 130 |
| Hexachlorocyclopentadiene | 1.98 | 2.00 | | ug/L | | 101 | 70 - 130 |
| Indeno[1,2,3-cd]pyrene | 1.98 | 2.08 | | ug/L | | 105 | 70 - 130 |

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-96902-1
SDG: 525.2, 533, 537.1

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

Lab Sample ID: LCS 380-92588/23-A
Matrix: Water
Analysis Batch: 92797

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 92588

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------------------------|-------------|------------|---------------|------|---|------|-------------|
| Isophorone | 1.98 | 2.16 | | ug/L | | 109 | 70 - 130 |
| Lindane | 1.98 | 2.03 | | ug/L | | 102 | 70 - 130 |
| Malathion | 1.98 | 2.28 | | ug/L | | 115 | 70 - 130 |
| Methoxychlor | 1.98 | 2.19 | | ug/L | | 110 | 70 - 130 |
| Metolachlor | 1.98 | 2.19 | | ug/L | | 111 | 70 - 130 |
| Molinate | 1.98 | 2.18 | | ug/L | | 110 | 70 - 130 |
| Naphthalene | 1.98 | 1.86 | | ug/L | | 94 | 70 - 130 |
| Parathion | 1.98 | 2.33 | | ug/L | | 118 | 70 - 130 |
| Pendimethalin (Penoxaline) | 1.98 | 2.17 | | ug/L | | 110 | 70 - 130 |
| Phenanthrene | 1.98 | 1.92 | | ug/L | | 97 | 70 - 130 |
| Propachlor | 1.98 | 2.20 | | ug/L | | 111 | 70 - 130 |
| Pyrene | 1.98 | 2.20 | | ug/L | | 111 | 70 - 130 |
| Simazine | 1.98 | 2.30 | | ug/L | | 116 | 70 - 130 |
| Terbacil | 1.98 | 2.19 | | ug/L | | 111 | 70 - 130 |
| Terbutylazine | 1.98 | 2.26 | | ug/L | | 114 | 70 - 130 |
| Thiobencarb | 1.98 | 2.38 | | ug/L | | 120 | 70 - 130 |
| trans-Nonachlor | 1.98 | 2.21 | | ug/L | | 111 | 70 - 130 |
| Trifluralin | 1.98 | 2.07 | | ug/L | | 104 | 70 - 130 |

| Surrogate | LCS LCS | | Limits |
|--------------------|-----------|-----------|----------|
| | %Recovery | Qualifier | |
| 2-Nitro-m-xylene | 95 | | 70 - 130 |
| Perylene-d12 | 97 | | 70 - 130 |
| Triphenylphosphate | 113 | | 70 - 130 |

Lab Sample ID: LCSD 380-92588/24-A
Matrix: Water
Analysis Batch: 92797

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 92588

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------------------|-------------|-------------|----------------|------|---|------|-------------|-----|-----------|
| 1-Methylnaphthalene | 1.98 | 1.98 | | ug/L | | 100 | 70 - 130 | 1 | 20 |
| 2,4'-DDD | 1.98 | 2.19 | | ug/L | | 110 | 70 - 130 | 5 | 20 |
| 2,4'-DDE | 1.98 | 2.04 | | ug/L | | 103 | 70 - 130 | 2 | 20 |
| 2,4'-DDT | 1.98 | 2.31 | | ug/L | | 116 | 70 - 130 | 3 | 20 |
| 2,4-Dinitrotoluene | 1.98 | 2.00 | | ug/L | | 101 | 70 - 130 | 6 | 20 |
| 2,6-Dinitrotoluene | 1.98 | 1.96 | | ug/L | | 99 | 70 - 130 | 7 | 20 |
| 2-Methylnaphthalene | 1.98 | 2.02 | | ug/L | | 102 | 70 - 130 | 1 | 20 |
| 4,4'-DDD | 1.98 | 2.22 | | ug/L | | 112 | 70 - 130 | 3 | 20 |
| 4,4'-DDE | 1.98 | 2.15 | | ug/L | | 108 | 70 - 130 | 4 | 20 |
| 4,4'-DDT | 1.98 | 2.06 | | ug/L | | 104 | 70 - 130 | 4 | 20 |
| Acenaphthene | 1.98 | 1.88 | | ug/L | | 95 | 70 - 130 | 1 | 20 |
| Acenaphthylene | 1.98 | 1.98 | | ug/L | | 100 | 70 - 130 | 1 | 20 |
| Acetochlor | 1.98 | 2.11 | | ug/L | | 107 | 70 - 130 | 0 | 20 |
| Alachlor | 1.98 | 2.07 | | ug/L | | 104 | 70 - 130 | 2 | 20 |
| alpha-BHC | 1.98 | 1.92 | | ug/L | | 97 | 70 - 130 | 3 | 20 |
| alpha-Chlordane | 1.98 | 2.09 | | ug/L | | 105 | 70 - 130 | 3 | 20 |
| Anthracene | 1.98 | 1.57 | | ug/L | | 79 | 70 - 130 | 2 | 20 |
| Atrazine | 1.98 | 2.26 | | ug/L | | 114 | 70 - 130 | 4 | 20 |
| Benz(a)anthracene | 1.98 | 1.91 | | ug/L | | 96 | 70 - 130 | 4 | 20 |

QC Sample Results

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

Job ID: 380-96902-1
SDG: 525.2, 533, 537.1

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

Lab Sample ID: LCSD 380-92588/24-A
Matrix: Water
Analysis Batch: 92797

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 92588

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec | | RPD | RPD Limit |
|----------------------------------|-------------|-------------|----------------|------|---|------|----------|-----|-----|-----------|
| | | | | | | | Limits | RPD | | |
| Benzo[a]pyrene | 1.98 | 1.88 | | ug/L | | 95 | 70 - 130 | 2 | 20 | |
| Benzo[b]fluoranthene | 1.98 | 2.21 | | ug/L | | 111 | 70 - 130 | 0 | 20 | |
| Benzo[g,h,i]perylene | 1.98 | 2.03 | | ug/L | | 103 | 70 - 130 | 2 | 20 | |
| Benzo[k]fluoranthene | 1.98 | 2.11 | | ug/L | | 107 | 70 - 130 | 3 | 20 | |
| beta-BHC | 1.98 | 1.97 | | ug/L | | 99 | 70 - 130 | 4 | 20 | |
| Bis(2-ethylhexyl) phthalate | 1.98 | 2.21 | | ug/L | | 111 | 70 - 130 | 0 | 20 | |
| Bromacil | 1.98 | 2.30 | | ug/L | | 116 | 70 - 130 | 8 | 20 | |
| Butachlor | 1.98 | 2.20 | | ug/L | | 111 | 70 - 130 | 4 | 20 | |
| Butylbenzylphthalate | 1.98 | 2.30 | | ug/L | | 116 | 70 - 130 | 2 | 20 | |
| Chlorobenzilate | 1.98 | 1.95 | | ug/L | | 98 | 70 - 130 | 6 | 20 | |
| Chloroneb | 1.98 | 2.00 | | ug/L | | 101 | 70 - 130 | 0 | 20 | |
| Chlorothalonil (Draconil, Bravo) | 1.98 | 2.25 | | ug/L | | 113 | 70 - 130 | 1 | 20 | |
| Chlorpyrifos | 1.98 | 2.16 | | ug/L | | 109 | 70 - 130 | 3 | 20 | |
| Chrysene | 1.98 | 2.09 | | ug/L | | 105 | 70 - 130 | 1 | 20 | |
| delta-BHC | 1.98 | 1.97 | | ug/L | | 99 | 70 - 130 | 1 | 20 | |
| Di(2-ethylhexyl)adipate | 1.98 | 2.45 | | ug/L | | 123 | 70 - 130 | 1 | 20 | |
| Dibenz(a,h)anthracene | 1.98 | 2.11 | | ug/L | | 106 | 70 - 130 | 2 | 20 | |
| Diclorvos (DDVP) | 1.98 | 2.18 | | ug/L | | 110 | 70 - 130 | 3 | 20 | |
| Dieldrin | 1.98 | 1.94 | | ug/L | | 98 | 70 - 130 | 3 | 20 | |
| Diethylphthalate | 1.98 | 2.06 | | ug/L | | 104 | 70 - 130 | 3 | 20 | |
| Dimethylphthalate | 1.98 | 2.04 | | ug/L | | 103 | 70 - 130 | 5 | 20 | |
| Di-n-butyl phthalate | 3.96 | 4.28 | | ug/L | | 108 | 70 - 130 | 0 | 20 | |
| Di-n-octyl phthalate | 1.98 | 2.11 | | ug/L | | 106 | 70 - 130 | 1 | 20 | |
| Endosulfan I (Alpha) | 1.98 | 1.91 | | ug/L | | 96 | 70 - 130 | 3 | 20 | |
| Endosulfan II (Beta) | 1.98 | 2.00 | | ug/L | | 101 | 70 - 130 | 3 | 20 | |
| Endosulfan sulfate | 1.98 | 2.14 | | ug/L | | 108 | 70 - 130 | 3 | 20 | |
| Endrin | 1.98 | 2.09 | | ug/L | | 105 | 70 - 130 | 4 | 20 | |
| Endrin aldehyde | 1.98 | 1.57 | | ug/L | | 79 | 60 - 130 | 1 | 20 | |
| EPTC | 1.98 | 2.27 | | ug/L | | 114 | 70 - 130 | 4 | 20 | |
| Fluoranthene | 1.98 | 2.13 | | ug/L | | 108 | 70 - 130 | 2 | 20 | |
| Fluorene | 1.98 | 2.07 | | ug/L | | 105 | 70 - 130 | 2 | 20 | |
| gamma-Chlordane | 1.98 | 2.18 | | ug/L | | 110 | 70 - 130 | 3 | 20 | |
| Heptachlor | 1.98 | 2.13 | | ug/L | | 107 | 70 - 130 | 2 | 20 | |
| Heptachlor epoxide (isomer B) | 1.98 | 2.10 | | ug/L | | 106 | 70 - 130 | 2 | 20 | |
| Hexachlorobenzene | 1.98 | 1.93 | | ug/L | | 97 | 70 - 130 | 5 | 20 | |
| Hexachlorocyclopentadiene | 1.98 | 1.94 | | ug/L | | 98 | 70 - 130 | 3 | 20 | |
| Indeno[1,2,3-cd]pyrene | 1.98 | 2.07 | | ug/L | | 105 | 70 - 130 | 0 | 20 | |
| Isophorone | 1.98 | 2.11 | | ug/L | | 106 | 70 - 130 | 2 | 20 | |
| Lindane | 1.98 | 1.96 | | ug/L | | 99 | 70 - 130 | 3 | 20 | |
| Malathion | 1.98 | 2.18 | | ug/L | | 110 | 70 - 130 | 4 | 20 | |
| Methoxychlor | 1.98 | 2.14 | | ug/L | | 108 | 70 - 130 | 2 | 20 | |
| Metolachlor | 1.98 | 2.12 | | ug/L | | 107 | 70 - 130 | 3 | 20 | |
| Molinate | 1.98 | 2.14 | | ug/L | | 108 | 70 - 130 | 2 | 20 | |
| Naphthalene | 1.98 | 1.84 | | ug/L | | 93 | 70 - 130 | 1 | 20 | |
| Parathion | 1.98 | 2.22 | | ug/L | | 112 | 70 - 130 | 5 | 20 | |
| Pendimethalin (Penoxaline) | 1.98 | 2.11 | | ug/L | | 107 | 70 - 130 | 3 | 20 | |
| Phenanthrene | 1.98 | 1.92 | | ug/L | | 97 | 70 - 130 | 0 | 20 | |
| Propachlor | 1.98 | 2.11 | | ug/L | | 107 | 70 - 130 | 4 | 20 | |
| Pyrene | 1.98 | 2.14 | | ug/L | | 108 | 70 - 130 | 3 | 20 | |

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-96902-1
SDG: 525.2, 533, 537.1

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

Lab Sample ID: LCSD 380-92588/24-A
Matrix: Water
Analysis Batch: 92797

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 92588

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|-----------------|----------------|----------------|-------------------|------|---|------|----------------|-----|--------------|
| Simazine | 1.98 | 2.17 | | ug/L | | 109 | 70 - 130 | 6 | 20 |
| Terbacil | 1.98 | 2.17 | | ug/L | | 109 | 70 - 130 | 1 | 20 |
| Terbuthylazine | 1.98 | 2.17 | | ug/L | | 109 | 70 - 130 | 4 | 20 |
| Thiobencarb | 1.98 | 2.40 | | ug/L | | 121 | 70 - 130 | 1 | 20 |
| trans-Nonachlor | 1.98 | 2.14 | | ug/L | | 108 | 70 - 130 | 3 | 20 |
| Trifluralin | 1.98 | 1.96 | | ug/L | | 99 | 70 - 130 | 5 | 20 |

| Surrogate | LCSD %Recovery | LCSD Qualifier | Limits |
|--------------------|-------------------|-------------------|----------|
| 2-Nitro-m-xylene | 94 | | 70 - 130 |
| Perylene-d12 | 97 | | 70 - 130 |
| Triphenylphosphate | 111 | | 70 - 130 |

Lab Sample ID: MRL 380-92588/22-A
Matrix: Water
Analysis Batch: 92797

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 92588

| Analyte | Spike Added | MRL Result | MRL Qualifier | Unit | D | %Rec | %Rec Limits |
|----------------------------------|----------------|---------------|------------------|------|---|------|----------------|
| 1-Methylnaphthalene | 0.0992 | 0.114 | | ug/L | | 115 | 50 - 150 |
| 2,4'-DDD | 0.0992 | 0.115 | | ug/L | | 116 | 50 - 150 |
| 2,4'-DDE | 0.0992 | 0.105 | | ug/L | | 105 | 50 - 150 |
| 2,4'-DDT | 0.0992 | 0.109 | | ug/L | | 110 | 50 - 150 |
| 2,4-Dinitrotoluene | 0.0992 | 0.106 | | ug/L | | 107 | 50 - 150 |
| 2,6-Dinitrotoluene | 0.0992 | 0.113 | | ug/L | | 114 | 50 - 150 |
| 2-Methylnaphthalene | 0.0992 | 0.111 | | ug/L | | 111 | 50 - 150 |
| 4,4'-DDD | 0.0992 | 0.113 | | ug/L | | 113 | 50 - 150 |
| 4,4'-DDE | 0.0992 | 0.100 | | ug/L | | 101 | 50 - 150 |
| 4,4'-DDT | 0.0992 | 0.124 | | ug/L | | 125 | 50 - 150 |
| Acenaphthene | 0.0992 | 0.0935 | J | ug/L | | 94 | 50 - 150 |
| Acenaphthylene | 0.0992 | 0.101 | | ug/L | | 101 | 50 - 150 |
| Acetochlor | 0.0496 | 0.0529 | J | ug/L | | 107 | 50 - 150 |
| Alachlor | 0.0496 | 0.0499 | J | ug/L | | 101 | 50 - 150 |
| alpha-BHC | 0.0992 | 0.106 | | ug/L | | 107 | 50 - 150 |
| alpha-Chlordane | 0.0248 | <0.029 | | ug/L | | 108 | 50 - 150 |
| Anthracene | 0.0198 | 0.0199 | J | ug/L | | 100 | 50 - 150 |
| Atrazine | 0.0496 | 0.0503 | | ug/L | | 101 | 50 - 150 |
| Benz(a)anthracene | 0.0496 | 0.0546 | | ug/L | | 110 | 50 - 150 |
| Benzo[a]pyrene | 0.0198 | 0.0200 | | ug/L | | 101 | 50 - 150 |
| Benzo[b]fluoranthene | 0.0198 | 0.0226 | | ug/L | | 114 | 50 - 150 |
| Benzo[g,h,i]perylene | 0.0496 | 0.0520 | | ug/L | | 105 | 50 - 150 |
| Benzo[k]fluoranthene | 0.0198 | 0.0212 | | ug/L | | 107 | 50 - 150 |
| beta-BHC | 0.0992 | 0.115 | | ug/L | | 116 | 50 - 150 |
| Bis(2-ethylhexyl) phthalate | 0.595 | 0.676 | | ug/L | | 114 | 50 - 150 |
| Bromacil | 0.0992 | 0.116 | | ug/L | | 117 | 50 - 150 |
| Butachlor | 0.0496 | 0.0558 | | ug/L | | 112 | 50 - 150 |
| Butylbenzylphthalate | 0.149 | 0.159 | J | ug/L | | 107 | 50 - 150 |
| Chlorobenzilate | 0.0992 | 0.0707 | J | ug/L | | 71 | 50 - 150 |
| Chloroneb | 0.0992 | 0.0949 | J | ug/L | | 96 | 50 - 150 |
| Chlorothalonil (Draconil, Bravo) | 0.0992 | 0.130 | | ug/L | | 131 | 50 - 150 |

QC Sample Results

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

Job ID: 380-96902-1
SDG: 525.2, 533, 537.1

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

Lab Sample ID: MRL 380-92588/22-A
Matrix: Water
Analysis Batch: 92797

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 92588

| Analyte | Spike Added | MRL Result | MRL Qualifier | Unit | D | %Rec | %Rec Limits |
|-------------------------------|----------------|---------------|------------------|------|---|------|----------------|
| Chlorpyrifos | 0.0496 | 0.0529 | | ug/L | | 107 | 50 - 150 |
| Chrysene | 0.0198 | 0.0189 | J | ug/L | | 95 | 50 - 150 |
| delta-BHC | 0.0992 | 0.122 | | ug/L | | 123 | 50 - 150 |
| Di(2-ethylhexyl)adipate | 0.298 | 0.355 | J | ug/L | | 119 | 50 - 150 |
| Dibenz(a,h)anthracene | 0.0496 | 0.0502 | | ug/L | | 101 | 50 - 150 |
| Diclorvos (DDVP) | 0.0496 | 0.0619 | | ug/L | | 125 | 50 - 150 |
| Dieldrin | 0.0992 | 0.102 | J | ug/L | | 103 | 50 - 150 |
| Diethylphthalate | 0.149 | 0.157 | J | ug/L | | 106 | 50 - 150 |
| Dimethylphthalate | 0.298 | 0.303 | J | ug/L | | 102 | 50 - 150 |
| Di-n-butyl phthalate | 0.298 | 0.356 | J | ug/L | | 120 | 49 - 243 |
| Di-n-octyl phthalate | 0.0992 | 0.110 | | ug/L | | 111 | 50 - 150 |
| Endosulfan I (Alpha) | 0.0992 | 0.0924 | J | ug/L | | 93 | 50 - 150 |
| Endosulfan II (Beta) | 0.0992 | 0.122 | | ug/L | | 123 | 50 - 150 |
| Endosulfan sulfate | 0.0992 | 0.103 | | ug/L | | 104 | 50 - 150 |
| Endrin | 0.0992 | 0.112 | | ug/L | | 113 | 50 - 150 |
| Endrin aldehyde | 0.0992 | 0.100 | | ug/L | | 101 | 50 - 150 |
| EPTC | 0.0992 | 0.117 | | ug/L | | 118 | 50 - 150 |
| Fluoranthene | 0.0496 | 0.0540 | J | ug/L | | 109 | 50 - 150 |
| Fluorene | 0.0496 | 0.0520 | | ug/L | | 105 | 50 - 150 |
| gamma-Chlordane | 0.0248 | 0.0264 | J | ug/L | | 107 | 50 - 150 |
| Heptachlor | 0.0397 | 0.0479 | | ug/L | | 121 | 50 - 150 |
| Heptachlor epoxide (isomer B) | 0.0496 | 0.0576 | | ug/L | | 116 | 50 - 150 |
| Hexachlorobenzene | 0.0496 | 0.0496 | J | ug/L | | 100 | 50 - 150 |
| Hexachlorocyclopentadiene | 0.0496 | 0.0582 | | ug/L | | 117 | 50 - 150 |
| Indeno[1,2,3-cd]pyrene | 0.0496 | 0.0510 | | ug/L | | 103 | 50 - 150 |
| Isophorone | 0.0992 | 0.121 | J | ug/L | | 122 | 50 - 150 |
| Lindane | 0.0397 | 0.0408 | | ug/L | | 103 | 50 - 150 |
| Malathion | 0.0992 | 0.108 | | ug/L | | 108 | 50 - 150 |
| Methoxychlor | 0.0992 | 0.116 | | ug/L | | 117 | 50 - 150 |
| Metolachlor | 0.0496 | 0.0578 | | ug/L | | 117 | 50 - 150 |
| Molinate | 0.0992 | 0.124 | | ug/L | | 125 | 50 - 150 |
| Naphthalene | 0.0992 | 0.104 | J | ug/L | | 104 | 50 - 150 |
| Parathion | 0.0992 | 0.125 | | ug/L | | 126 | 50 - 150 |
| Pendimethalin (Penoxaline) | 0.0992 | 0.100 | | ug/L | | 101 | 50 - 150 |
| Phenanthrene | 0.0198 | 0.0212 | J | ug/L | | 107 | 50 - 150 |
| Propachlor | 0.0496 | 0.0499 | J | ug/L | | 101 | 50 - 150 |
| Pyrene | 0.0496 | 0.0517 | | ug/L | | 104 | 50 - 150 |
| Simazine | 0.0496 | 0.0486 | J | ug/L | | 98 | 50 - 150 |
| Terbacil | 0.0992 | 0.101 | | ug/L | | 102 | 50 - 150 |
| Terbutylazine | 0.0992 | 0.109 | | ug/L | | 110 | 50 - 150 |
| Thiobencarb | 0.0992 | 0.125 | J | ug/L | | 126 | 50 - 150 |
| trans-Nonachlor | 0.0248 | 0.0279 | J | ug/L | | 112 | 50 - 150 |
| Trifluralin | 0.0992 | 0.115 | | ug/L | | 116 | 50 - 150 |

| Surrogate | MRL %Recovery | MRL Qualifier | Limits |
|--------------------|------------------|------------------|----------|
| 2-Nitro-m-xylene | 96 | | 70 - 130 |
| Perylene-d12 | 98 | | 70 - 130 |
| Triphenylphosphate | 108 | | 70 - 130 |

QC Sample Results

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

Job ID: 380-96902-1
SDG: 525.2, 533, 537.1

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

Lab Sample ID: 380-96902-1 MS
Matrix: Water
Analysis Batch: 92797

Client Sample ID: MOANALUA WELLS
Prep Type: Total/NA
Prep Batch: 92588

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------------------------------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| 1-Methylnaphthalene | <0.097 | | 1.97 | 2.07 | | ug/L | | 105 | 70 - 130 |
| 2,4'-DDD | <0.097 | | 1.97 | 2.29 | | ug/L | | 116 | 70 - 130 |
| 2,4'-DDE | <0.097 | | 1.97 | 2.08 | | ug/L | | 106 | 70 - 130 |
| 2,4'-DDT | <0.097 | | 1.97 | 2.32 | | ug/L | | 118 | 70 - 130 |
| 2,4-Dinitrotoluene | <0.097 | | 1.97 | 2.11 | | ug/L | | 107 | 70 - 130 |
| 2,6-Dinitrotoluene | <0.097 | | 1.97 | 2.11 | | ug/L | | 107 | 70 - 130 |
| 2-Methylnaphthalene | <0.097 | | 1.97 | 2.08 | | ug/L | | 106 | 70 - 130 |
| 4,4'-DDD | <0.097 | | 1.97 | 2.27 | | ug/L | | 116 | 70 - 130 |
| 4,4'-DDE | <0.097 | | 1.97 | 2.18 | | ug/L | | 111 | 70 - 130 |
| 4,4'-DDT | <0.097 | | 1.97 | 2.09 | | ug/L | | 106 | 70 - 130 |
| Acenaphthene | <0.097 | | 1.97 | 1.91 | | ug/L | | 97 | 70 - 130 |
| Acenaphthylene | <0.097 | | 1.97 | 2.02 | | ug/L | | 103 | 70 - 130 |
| Acetochlor | <0.097 | | 1.97 | 2.17 | | ug/L | | 110 | 70 - 130 |
| Alachlor | <0.049 | | 1.97 | 2.15 | | ug/L | | 109 | 70 - 130 |
| alpha-BHC | <0.097 | | 1.97 | 2.02 | | ug/L | | 102 | 70 - 130 |
| alpha-Chlordane | <0.049 | | 1.97 | 2.23 | | ug/L | | 113 | 70 - 130 |
| Anthracene | <0.019 | F1 | 1.97 | 1.04 | F1 | ug/L | | 53 | 70 - 130 |
| Atrazine | <0.049 | | 1.97 | 2.34 | | ug/L | | 119 | 70 - 130 |
| Benz(a)anthracene | <0.049 | | 1.97 | 1.94 | | ug/L | | 98 | 70 - 130 |
| Benzo[a]pyrene | <0.019 | | 1.97 | 1.73 | | ug/L | | 88 | 70 - 130 |
| Benzo[b]fluoranthene | <0.019 | | 1.97 | 2.14 | | ug/L | | 108 | 70 - 130 |
| Benzo[g,h,i]perylene | <0.049 | | 1.97 | 2.04 | | ug/L | | 103 | 70 - 130 |
| Benzo[k]fluoranthene | <0.019 | | 1.97 | 2.08 | | ug/L | | 106 | 70 - 130 |
| beta-BHC | <0.097 | | 1.97 | 2.04 | | ug/L | | 104 | 70 - 130 |
| Bis(2-ethylhexyl) phthalate | <0.58 | | 1.97 | 1.99 | | ug/L | | 101 | 70 - 130 |
| Bromacil | <0.097 | | 1.97 | 2.48 | | ug/L | | 126 | 70 - 130 |
| Butachlor | <0.049 | | 1.97 | 2.28 | | ug/L | | 116 | 70 - 130 |
| Butylbenzylphthalate | <0.49 | | 1.97 | 2.39 | | ug/L | | 121 | 70 - 130 |
| Chlorobenzilate | <0.097 | | 1.97 | 1.98 | | ug/L | | 100 | 70 - 130 |
| Chloroneb | <0.097 | | 1.97 | 2.09 | | ug/L | | 106 | 70 - 130 |
| Chlorothalonil (Draconil, Bravo) | <0.097 | | 1.97 | 2.34 | | ug/L | | 119 | 70 - 130 |
| Chlorpyrifos | <0.049 | | 1.97 | 2.27 | | ug/L | | 115 | 70 - 130 |
| Chrysene | <0.019 | | 1.97 | 2.06 | | ug/L | | 105 | 70 - 130 |
| delta-BHC | <0.097 | | 1.97 | 1.97 | | ug/L | | 100 | 70 - 130 |
| Di(2-ethylhexyl)adipate | <0.58 | | 1.97 | 2.35 | | ug/L | | 119 | 70 - 130 |
| Dibenz(a,h)anthracene | <0.049 | | 1.97 | 1.95 | | ug/L | | 99 | 70 - 130 |
| Diclorvos (DDVP) | <0.049 | | 1.97 | 2.30 | | ug/L | | 117 | 70 - 130 |
| Dieldrin | <0.19 | | 1.97 | 2.08 | | ug/L | | 105 | 70 - 130 |
| Diethylphthalate | <0.49 | | 1.97 | 2.13 | | ug/L | | 108 | 70 - 130 |
| Dimethylphthalate | <0.49 | | 1.97 | 2.14 | | ug/L | | 109 | 70 - 130 |
| Di-n-butyl phthalate | <0.97 | | 3.94 | 4.34 | | ug/L | | 110 | 70 - 130 |
| Di-n-octyl phthalate | <0.097 | | 1.97 | 1.87 | | ug/L | | 95 | 70 - 130 |
| Endosulfan I (Alpha) | <0.097 | | 1.97 | 1.99 | | ug/L | | 101 | 70 - 130 |
| Endosulfan II (Beta) | <0.097 | | 1.97 | 2.08 | | ug/L | | 106 | 70 - 130 |
| Endosulfan sulfate | <0.097 | | 1.97 | 2.25 | | ug/L | | 114 | 70 - 130 |
| Endrin | <0.097 | | 1.97 | 2.19 | | ug/L | | 111 | 70 - 130 |
| Endrin aldehyde | <0.097 | | 1.97 | 1.82 | | ug/L | | 92 | 60 - 130 |
| EPTC | <0.097 | | 1.97 | 2.35 | | ug/L | | 119 | 70 - 130 |

QC Sample Results

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

Job ID: 380-96902-1
SDG: 525.2, 533, 537.1

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

Lab Sample ID: 380-96902-1 MS
Matrix: Water
Analysis Batch: 92797

Client Sample ID: MOANALUA WELLS
Prep Type: Total/NA
Prep Batch: 92588

| Analyte | Sample | Sample | Spike | MS | MS | Unit | D | %Rec | %Rec |
|-------------------------------|--------|-----------|-------|--------|-----------|------|---|------|----------|
| | Result | Qualifier | Added | Result | Qualifier | | | | |
| Fluoranthene | <0.097 | | 1.97 | 2.21 | | ug/L | | 112 | 70 - 130 |
| Fluorene | <0.049 | | 1.97 | 2.13 | | ug/L | | 108 | 70 - 130 |
| gamma-Chlordane | <0.049 | | 1.97 | 2.25 | | ug/L | | 115 | 70 - 130 |
| Heptachlor | <0.039 | | 1.97 | 2.18 | | ug/L | | 111 | 70 - 130 |
| Heptachlor epoxide (isomer B) | <0.049 | | 1.97 | 2.25 | | ug/L | | 114 | 70 - 130 |
| Hexachlorobenzene | <0.049 | | 1.97 | 2.06 | | ug/L | | 105 | 70 - 130 |
| Hexachlorocyclopentadiene | <0.049 | | 1.97 | 2.11 | | ug/L | | 107 | 70 - 130 |
| Indeno[1,2,3-cd]pyrene | <0.049 | | 1.97 | 2.00 | | ug/L | | 102 | 70 - 130 |
| Isophorone | <0.49 | | 1.97 | 2.20 | | ug/L | | 112 | 70 - 130 |
| Lindane | <0.039 | | 1.97 | 2.07 | | ug/L | | 105 | 70 - 130 |
| Malathion | <0.097 | | 1.97 | 2.28 | | ug/L | | 116 | 70 - 130 |
| Methoxychlor | <0.097 | | 1.97 | 2.14 | | ug/L | | 109 | 70 - 130 |
| Metolachlor | <0.049 | | 1.97 | 2.23 | | ug/L | | 113 | 70 - 130 |
| Molinate | <0.097 | | 1.97 | 2.17 | | ug/L | | 110 | 70 - 130 |
| Naphthalene | <0.29 | | 1.97 | 1.90 | | ug/L | | 97 | 70 - 130 |
| Parathion | <0.097 | | 1.97 | 2.32 | | ug/L | | 118 | 70 - 130 |
| Pendimethalin (Penoxaline) | <0.097 | | 1.97 | 2.17 | | ug/L | | 110 | 70 - 130 |
| Phenanthrene | <0.039 | | 1.97 | 1.99 | | ug/L | | 101 | 70 - 130 |
| Propachlor | <0.049 | | 1.97 | 2.20 | | ug/L | | 112 | 70 - 130 |
| Pyrene | <0.049 | | 1.97 | 2.21 | | ug/L | | 112 | 70 - 130 |
| Simazine | <0.049 | | 1.97 | 2.28 | | ug/L | | 116 | 70 - 130 |
| Terbacil | <0.097 | | 1.97 | 2.24 | | ug/L | | 114 | 70 - 130 |
| Terbutylazine | <0.097 | | 1.97 | 2.25 | | ug/L | | 114 | 70 - 130 |
| Thiobencarb | <0.19 | | 1.97 | 2.43 | | ug/L | | 123 | 70 - 130 |
| trans-Nonachlor | <0.049 | | 1.97 | 2.22 | | ug/L | | 113 | 70 - 130 |
| Trifluralin | <0.097 | | 1.97 | 2.07 | | ug/L | | 105 | 70 - 130 |

| Surrogate | MS | MS | Limits |
|--------------------|-----------|-----------|----------|
| | %Recovery | Qualifier | |
| 2-Nitro-m-xylene | 97 | | 70 - 130 |
| Perylene-d12 | 96 | | 70 - 130 |
| Triphenylphosphate | 114 | | 70 - 130 |

Lab Sample ID: 380-96902-2 DU
Matrix: Water
Analysis Batch: 92797

Client Sample ID: AIEA GULCH WELLS PUMP 2
Prep Type: Total/NA
Prep Batch: 92588

| Analyte | Sample | Sample | DU | DU | Unit | D | RPD | Limit |
|---------------------|--------|-----------|--------|-----------|------|---|-----|-------|
| | Result | Qualifier | Result | Qualifier | | | | |
| 1-Methylnaphthalene | <0.097 | | <0.097 | | ug/L | | NC | 20 |
| 2,4'-DDD | <0.097 | | <0.097 | | ug/L | | NC | 20 |
| 2,4'-DDE | <0.097 | | <0.097 | | ug/L | | NC | 20 |
| 2,4'-DDT | <0.097 | | <0.097 | | ug/L | | NC | 20 |
| 2,4-Dinitrotoluene | <0.097 | | <0.097 | | ug/L | | NC | 20 |
| 2,6-Dinitrotoluene | <0.097 | | <0.097 | | ug/L | | NC | 20 |
| 2-Methylnaphthalene | <0.097 | | <0.097 | | ug/L | | NC | 20 |
| 4,4'-DDD | <0.097 | | <0.097 | | ug/L | | NC | 20 |
| 4,4'-DDE | <0.097 | | <0.097 | | ug/L | | NC | 20 |
| 4,4'-DDT | <0.097 | | <0.097 | | ug/L | | NC | 20 |
| Acenaphthene | <0.097 | | <0.097 | | ug/L | | NC | 20 |

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-96902-1
SDG: 525.2, 533, 537.1

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

Lab Sample ID: 380-96902-2 DU
Matrix: Water
Analysis Batch: 92797

Client Sample ID: AIEA GULCH WELLS PUMP 2
Prep Type: Total/NA
Prep Batch: 92588

| Analyte | Sample | Sample | DU | DU | Unit | D | RPD | Limit |
|----------------------------------|--------|-----------|--------|-----------|------|---|-----|-------|
| | Result | Qualifier | Result | Qualifier | | | | |
| Acenaphthylene | <0.097 | | <0.097 | | ug/L | | NC | 20 |
| Acetochlor | <0.097 | | <0.097 | | ug/L | | NC | 20 |
| Alachlor | <0.049 | | <0.049 | | ug/L | | NC | 20 |
| alpha-BHC | <0.097 | | <0.097 | | ug/L | | NC | 20 |
| alpha-Chlordane | <0.049 | | <0.049 | | ug/L | | NC | 20 |
| Anthracene | <0.019 | | <0.019 | | 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 | <0.019 | | <0.019 | | ug/L | | NC | 20 |
| Benzo[b]fluoranthene | <0.019 | | <0.019 | | ug/L | | NC | 20 |
| Benzo[g,h,i]perylene | <0.049 | | <0.049 | | ug/L | | NC | 20 |
| Benzo[k]fluoranthene | <0.019 | | <0.019 | | ug/L | | NC | 20 |
| beta-BHC | <0.097 | | <0.097 | | ug/L | | NC | 20 |
| Bis(2-ethylhexyl) phthalate | <0.58 | | <0.58 | | ug/L | | NC | 20 |
| Bromacil | <0.097 | | <0.097 | | ug/L | | NC | 20 |
| Butachlor | <0.049 | | <0.049 | | ug/L | | NC | 20 |
| Butylbenzylphthalate | <0.49 | | <0.49 | | ug/L | | NC | 20 |
| Chlorobenzilate | <0.097 | | <0.097 | | ug/L | | NC | 20 |
| Chloroneb | <0.097 | | <0.097 | | ug/L | | NC | 20 |
| Chlorothalonil (Draconil, Bravo) | <0.097 | | <0.097 | | ug/L | | NC | 20 |
| Chlorpyrifos | <0.049 | | <0.049 | | ug/L | | NC | 20 |
| Chrysene | <0.019 | | <0.019 | | ug/L | | NC | 20 |
| delta-BHC | <0.097 | | <0.097 | | ug/L | | NC | 20 |
| Di(2-ethylhexyl)adipate | <0.58 | | <0.58 | | 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 | <0.19 | | <0.19 | | 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 | <0.97 | | <0.97 | | ug/L | | NC | 20 |
| Di-n-octyl phthalate | <0.097 | | <0.097 | | ug/L | | NC | 20 |
| Endosulfan I (Alpha) | <0.097 | | <0.097 | | ug/L | | NC | 20 |
| Endosulfan II (Beta) | <0.097 | | <0.097 | | ug/L | | NC | 20 |
| Endosulfan sulfate | <0.097 | | <0.097 | | ug/L | | NC | 20 |
| Endrin | <0.097 | | <0.097 | | ug/L | | NC | 20 |
| Endrin aldehyde | <0.097 | | <0.097 | | ug/L | | NC | 20 |
| EPTC | <0.097 | | <0.097 | | ug/L | | NC | 20 |
| Fluoranthene | <0.097 | | <0.097 | | ug/L | | NC | 20 |
| Fluorene | <0.049 | | <0.049 | | ug/L | | NC | 20 |
| gamma-Chlordane | <0.049 | | <0.049 | | ug/L | | NC | 20 |
| Heptachlor | <0.039 | | <0.039 | | ug/L | | NC | 20 |
| Heptachlor epoxide (isomer B) | <0.049 | | <0.049 | | ug/L | | NC | 20 |
| Hexachlorobenzene | <0.049 | | <0.049 | | ug/L | | NC | 20 |
| Hexachlorocyclopentadiene | <0.049 | | <0.049 | | ug/L | | NC | 20 |
| Indeno[1,2,3-cd]pyrene | <0.049 | | <0.049 | | ug/L | | NC | 20 |
| Isophorone | <0.49 | | <0.49 | | ug/L | | NC | 20 |
| Lindane | <0.039 | | <0.039 | | ug/L | | NC | 20 |
| Malathion | <0.097 | | <0.097 | | ug/L | | NC | 20 |
| Methoxychlor | <0.097 | | <0.097 | | ug/L | | NC | 20 |

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-96902-1
SDG: 525.2, 533, 537.1

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

Lab Sample ID: 380-96902-2 DU
Matrix: Water
Analysis Batch: 92797

Client Sample ID: AIEA GULCH WELLS PUMP 2
Prep Type: Total/NA
Prep Batch: 92588

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | Limit |
|----------------------------------|---------------|------------------|-----------|--------------|------|---|-----|-------|
| Metolachlor | <0.049 | | <0.049 | | ug/L | | NC | 20 |
| Molinate | <0.097 | | <0.097 | | ug/L | | NC | 20 |
| Naphthalene | <0.29 | | <0.29 | | ug/L | | NC | 20 |
| Parathion | <0.097 | | <0.097 | | ug/L | | NC | 20 |
| Pendimethalin (Penoxaline) | <0.097 | | <0.097 | | 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 | <0.097 | | <0.097 | | ug/L | | NC | 20 |
| Terbutylazine | <0.097 | | <0.097 | | ug/L | | NC | 20 |
| Thiobencarb | <0.19 | | <0.19 | | ug/L | | NC | 20 |
| Total Permethrin (mixed isomers) | <0.19 | | <0.19 | | ug/L | | NC | 20 |
| trans-Nonachlor | <0.049 | | <0.049 | | ug/L | | NC | 20 |
| Trifluralin | <0.097 | | <0.097 | | ug/L | | NC | 20 |

| Surrogate | %Recovery | DU Qualifier | DU Limits |
|--------------------|-----------|--------------|-----------|
| 2-Nitro-m-xylene | 101 | | 70 - 130 |
| Perylene-d12 | 95 | | 70 - 130 |
| Triphenylphosphate | 113 | | 70 - 130 |

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water

Lab Sample ID: MBL 380-91953/22-A
Matrix: Water
Analysis Batch: 92149

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 91953

| Analyte | MBL Result | MBL Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|------------|---------------|-----|------|---|----------------|----------------|---------|
| 11-Chloroeicosfluoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS) | <0.30 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 13:17 | 1 |
| 9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS) | <0.30 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 13:17 | 1 |
| 4,8-Dioxa-3H-perfluorononanoic acid (ADONA) | <0.60 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 13:17 | 1 |
| Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX) | <1.0 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 13:17 | 1 |
| Perfluorobutanesulfonic acid (PFBS) | <0.37 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 13:17 | 1 |
| Perfluorodecanoic acid (PFDA) | <0.31 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 13:17 | 1 |
| Perfluorododecanoic acid (PFDoA) | <0.54 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 13:17 | 1 |
| Perfluoroheptanoic acid (PFHpA) | <0.39 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 13:17 | 1 |
| Perfluorohexanesulfonic acid (PFHxS) | <0.32 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 13:17 | 1 |
| Perfluorohexanoic acid (PFHxA) | <0.46 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 13:17 | 1 |
| Perfluorononanoic acid (PFNA) | <0.40 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 13:17 | 1 |
| Perfluorooctanesulfonic acid (PFOS) | <0.43 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 13:17 | 1 |
| Perfluorooctanoic acid (PFOA) | <0.38 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 13:17 | 1 |
| Perfluoroundecanoic acid (PFUnA) | <0.42 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 13:17 | 1 |
| Perfluorobutanoic acid (PFBA) | <0.69 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 13:17 | 1 |
| 1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS) | <0.38 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 13:17 | 1 |

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-96902-1
SDG: 525.2, 533, 537.1

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water (Continued)

Lab Sample ID: MBL 380-91953/22-A
Matrix: Water
Analysis Batch: 92149

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 91953

| Analyte | MBL Result | MBL Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|------------------|------------------|----------|------|---|----------------|----------------|---------|
| 1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS) | <0.37 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 13:17 | 1 |
| 1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS) | <0.48 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 13:17 | 1 |
| Nonafluoro-3,6-dioxaheptanoic acid (NFDHA) | <0.47 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 13:17 | 1 |
| Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA) | <0.25 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 13:17 | 1 |
| Perfluoro-3-methoxypropanoic acid (PFMPA) | <0.46 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 13:17 | 1 |
| Perfluoro-4-methoxybutanoic acid (PFMBA) | <0.15 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 13:17 | 1 |
| Perfluoropentanoic acid (PFPeA) | <0.38 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 13:17 | 1 |
| Perfluoroheptanesulfonic acid (PFHpS) | <0.36 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 13:17 | 1 |
| Perfluoropentanesulfonic acid (PFPeS) | <0.39 | | 2.0 | ng/L | | 05/23/24 10:26 | 05/24/24 13:17 | 1 |
| Isotope Dilution | MBL %Recovery | MBL Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 13C3 HFPO-DA | 88 | | 50 - 200 | | | 05/23/24 10:26 | 05/24/24 13:17 | 1 |
| 13C6 PFDA | 97 | | 50 - 200 | | | 05/23/24 10:26 | 05/24/24 13:17 | 1 |
| 13C5 PFHxA | 95 | | 50 - 200 | | | 05/23/24 10:26 | 05/24/24 13:17 | 1 |
| 13C4 PFHpA | 101 | | 50 - 200 | | | 05/23/24 10:26 | 05/24/24 13:17 | 1 |
| 13C8 PFOA | 102 | | 50 - 200 | | | 05/23/24 10:26 | 05/24/24 13:17 | 1 |
| 13C9 PFNA | 102 | | 50 - 200 | | | 05/23/24 10:26 | 05/24/24 13:17 | 1 |
| 13C7 PFUnA | 88 | | 50 - 200 | | | 05/23/24 10:26 | 05/24/24 13:17 | 1 |
| 13C2 PFDoA | 89 | | 50 - 200 | | | 05/23/24 10:26 | 05/24/24 13:17 | 1 |
| 13C4 PFBA | 96 | | 50 - 200 | | | 05/23/24 10:26 | 05/24/24 13:17 | 1 |
| 13C5 PFPeA | 103 | | 50 - 200 | | | 05/23/24 10:26 | 05/24/24 13:17 | 1 |
| 13C3 PFBS | 102 | | 50 - 200 | | | 05/23/24 10:26 | 05/24/24 13:17 | 1 |
| 13C3 PFHxS | 104 | | 50 - 200 | | | 05/23/24 10:26 | 05/24/24 13:17 | 1 |
| 13C8 PFOS | 99 | | 50 - 200 | | | 05/23/24 10:26 | 05/24/24 13:17 | 1 |
| 13C2-4:2-FTS | 115 | | 50 - 200 | | | 05/23/24 10:26 | 05/24/24 13:17 | 1 |
| 13C2-6:2-FTS | 99 | | 50 - 200 | | | 05/23/24 10:26 | 05/24/24 13:17 | 1 |
| 13C2-8:2-FTS | 86 | | 50 - 200 | | | 05/23/24 10:26 | 05/24/24 13:17 | 1 |

Lab Sample ID: LCS 380-91953/24-A
Matrix: Water
Analysis Batch: 92149

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 91953

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|----------------|---------------|------------------|------|---|------|----------------|
| 11-Chloroeicosfluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS) | 120 | 86.8 | | ng/L | | 72 | 70 - 130 |
| 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS) | 120 | 94.2 | | ng/L | | 78 | 70 - 130 |
| 4,8-Dioxa-3H-perfluorononanoic acid (ADONA) | 120 | 110 | | ng/L | | 91 | 70 - 130 |
| Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX) | 120 | 112 | | ng/L | | 93 | 70 - 130 |

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-96902-1
SDG: 525.2, 533, 537.1

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water (Continued)

Lab Sample ID: LCS 380-91953/24-A
Matrix: Water
Analysis Batch: 92149

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 91953

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|----------------|---------------|------------------|------|---|------|----------------|
| Perfluorobutanesulfonic acid (PFBS) | 120 | 101 | | ng/L | | 84 | 70 - 130 |
| Perfluorodecanoic acid (PFDA) | 120 | 113 | | ng/L | | 94 | 70 - 130 |
| Perfluorododecanoic acid (PFDoA) | 120 | 103 | | ng/L | | 86 | 70 - 130 |
| Perfluoroheptanoic acid (PFHpA) | 120 | 111 | | ng/L | | 92 | 70 - 130 |
| Perfluorohexanesulfonic acid (PFHxS) | 120 | 110 | | ng/L | | 91 | 70 - 130 |
| Perfluorohexanoic acid (PFHxA) | 120 | 110 | | ng/L | | 92 | 70 - 130 |
| Perfluorononanoic acid (PFNA) | 120 | 109 | | ng/L | | 91 | 70 - 130 |
| Perfluorooctanesulfonic acid (PFOS) | 120 | 107 | | ng/L | | 89 | 70 - 130 |
| Perfluorooctanoic acid (PFOA) | 120 | 107 | | ng/L | | 89 | 70 - 130 |
| Perfluoroundecanoic acid (PFUnA) | 120 | 107 | | ng/L | | 89 | 70 - 130 |
| Perfluorobutanoic acid (PFBA) | 120 | 105 | | ng/L | | 87 | 70 - 130 |
| 1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS) | 120 | 115 | | ng/L | | 95 | 70 - 130 |
| 1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS) | 120 | 111 | | ng/L | | 92 | 70 - 130 |
| 1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS) | 120 | 112 | | ng/L | | 93 | 70 - 130 |
| Nonafluoro-3,6-dioxaheptanoic acid (NFDHA) | 120 | 86.5 | | ng/L | | 72 | 70 - 130 |
| Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA) | 120 | 93.1 | | ng/L | | 77 | 70 - 130 |
| Perfluoro-3-methoxypropanoic acid (PFMPA) | 120 | 107 | | ng/L | | 89 | 70 - 130 |
| Perfluoro-4-methoxybutanoic acid (PFMBA) | 120 | 105 | | ng/L | | 87 | 70 - 130 |
| Perfluoropentanoic acid (PFPeA) | 120 | 108 | | ng/L | | 90 | 70 - 130 |
| Perfluoroheptanesulfonic acid (PFHpS) | 120 | 108 | | ng/L | | 90 | 70 - 130 |
| Perfluoropentanesulfonic acid (PFPeS) | 120 | 110 | | ng/L | | 91 | 70 - 130 |

| Isotope Dilution | LCS %Recovery | LCS Qualifier | Limits |
|------------------|------------------|------------------|----------|
| 13C3 HFPO-DA | 95 | | 50 - 200 |
| 13C6 PFDA | 104 | | 50 - 200 |
| 13C5 PFHxA | 98 | | 50 - 200 |
| 13C4 PFHpA | 101 | | 50 - 200 |
| 13C8 PFOA | 106 | | 50 - 200 |
| 13C9 PFNA | 107 | | 50 - 200 |
| 13C7 PFUnA | 96 | | 50 - 200 |
| 13C2 PFDoA | 97 | | 50 - 200 |
| 13C4 PFBA | 102 | | 50 - 200 |
| 13C5 PFPeA | 104 | | 50 - 200 |
| 13C3 PFBS | 109 | | 50 - 200 |
| 13C3 PFHxS | 106 | | 50 - 200 |
| 13C8 PFOS | 106 | | 50 - 200 |
| 13C2-4:2-FTS | 114 | | 50 - 200 |
| 13C2-6:2-FTS | 105 | | 50 - 200 |

QC Sample Results

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

Job ID: 380-96902-1
SDG: 525.2, 533, 537.1

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water (Continued)

Lab Sample ID: LCS 380-91953/24-A
Matrix: Water
Analysis Batch: 92149

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 91953

| <i>Isotope Dilution</i> | <i>LCS</i> | <i>LCS</i> | <i>Limits</i> |
|-------------------------|------------------|------------------|---------------|
| | <i>%Recovery</i> | <i>Qualifier</i> | |
| 13C2-8:2-FTS | 93 | | 50 - 200 |

Lab Sample ID: MRL 380-91953/23-A
Matrix: Water
Analysis Batch: 92149

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 91953

| <i>Analyte</i> | <i>Spike Added</i> | <i>MRL Result</i> | <i>MRL Qualifier</i> | <i>Unit</i> | <i>D</i> | <i>%Rec</i> | <i>%Rec Limits</i> |
|---|--------------------|-------------------|----------------------|-------------|----------|-------------|--------------------|
| 11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS) | 2.01 | 1.61 | J | ng/L | | 80 | 50 - 150 |
| 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS) | 2.01 | 1.74 | J | ng/L | | 86 | 50 - 150 |
| 4,8-Dioxa-3H-perfluorononanoic acid (ADONA) | 2.01 | 2.07 | J | ng/L | | 103 | 50 - 150 |
| Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX) | 2.01 | 2.00 | J | ng/L | | 99 | 50 - 150 |
| Perfluorobutanesulfonic acid (PFBS) | 2.01 | 2.07 | J | ng/L | | 103 | 50 - 150 |
| Perfluorodecanoic acid (PFDA) | 2.01 | 2.14 | J | ng/L | | 107 | 50 - 150 |
| Perfluorododecanoic acid (PFDoA) | 2.01 | 2.12 | J | ng/L | | 105 | 50 - 150 |
| Perfluoroheptanoic acid (PFHpA) | 2.01 | 2.21 | J | ng/L | | 110 | 50 - 150 |
| Perfluorohexanesulfonic acid (PFHxS) | 2.01 | 2.09 | J | ng/L | | 104 | 50 - 150 |
| Perfluorohexanoic acid (PFHxA) | 2.01 | 2.09 | J | ng/L | | 104 | 50 - 150 |
| Perfluorononanoic acid (PFNA) | 2.01 | 2.11 | J | ng/L | | 105 | 50 - 150 |
| Perfluorooctanesulfonic acid (PFOS) | 2.01 | 2.15 | J | ng/L | | 107 | 50 - 150 |
| Perfluorooctanoic acid (PFOA) | 2.01 | 2.06 | J | ng/L | | 102 | 50 - 150 |
| Perfluoroundecanoic acid (PFUnA) | 2.01 | 2.04 | J | ng/L | | 101 | 50 - 150 |
| Perfluorobutanoic acid (PFBA) | 2.01 | 1.95 | J | ng/L | | 97 | 50 - 150 |
| 1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS) | 2.01 | 2.06 | J | ng/L | | 102 | 50 - 150 |
| 1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS) | 2.01 | 2.17 | J | ng/L | | 108 | 50 - 150 |
| 1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS) | 2.01 | 2.59 | J | ng/L | | 129 | 50 - 150 |
| Nonafluoro-3,6-dioxaheptanoic acid (NFDHA) | 2.01 | 1.93 | J | ng/L | | 96 | 50 - 150 |
| Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA) | 2.01 | 1.84 | J | ng/L | | 91 | 50 - 150 |
| Perfluoro-3-methoxypropanoic acid (PFMPA) | 2.01 | 2.01 | J | ng/L | | 100 | 50 - 150 |
| Perfluoro-4-methoxybutanoic acid (PFMBA) | 2.01 | 1.93 | J | ng/L | | 96 | 50 - 150 |
| Perfluoropentanoic acid (PFPeA) | 2.01 | 2.14 | J | ng/L | | 106 | 50 - 150 |
| Perfluoroheptanesulfonic acid (PFHpS) | 2.01 | 1.99 | J | ng/L | | 99 | 50 - 150 |
| Perfluoropentanesulfonic acid (PFPeS) | 2.01 | 1.98 | J | ng/L | | 99 | 50 - 150 |

QC Sample Results

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

Job ID: 380-96902-1
SDG: 525.2, 533, 537.1

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water (Continued)

| <i>Isotope Dilution</i> | <i>MRL</i> <i>%Recovery</i> | <i>MRL</i> <i>Qualifier</i> | <i>Limits</i> |
|-------------------------|--------------------------------|--------------------------------|---------------|
| 13C3 HFPO-DA | 89 | | 50 - 200 |
| 13C6 PFDA | 98 | | 50 - 200 |
| 13C5 PFHxA | 96 | | 50 - 200 |
| 13C4 PFHpA | 104 | | 50 - 200 |
| 13C8 PFOA | 103 | | 50 - 200 |
| 13C9 PFNA | 101 | | 50 - 200 |
| 13C7 PFUnA | 91 | | 50 - 200 |
| 13C2 PFDoA | 89 | | 50 - 200 |
| 13C4 PFBA | 102 | | 50 - 200 |
| 13C5 PFPeA | 101 | | 50 - 200 |
| 13C3 PFBS | 103 | | 50 - 200 |
| 13C3 PFHxS | 103 | | 50 - 200 |
| 13C8 PFOS | 101 | | 50 - 200 |
| 13C2-4:2-FTS | 118 | | 50 - 200 |
| 13C2-6:2-FTS | 100 | | 50 - 200 |
| 13C2-8:2-FTS | 87 | | 50 - 200 |

Lab Sample ID: 380-96888-D-1-B MS
Matrix: Water
Analysis Batch: 92149

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 91953

| <i>Analyte</i> | <i>Sample</i> <i>Result</i> | <i>Sample</i> <i>Qualifier</i> | <i>Spike</i> <i>Added</i> | <i>MS</i> <i>Result</i> | <i>MS</i> <i>Qualifier</i> | <i>Unit</i> | <i>D</i> | <i>%Rec</i> | <i>%Rec</i> <i>Limits</i> |
|---|--------------------------------|-----------------------------------|------------------------------|----------------------------|-------------------------------|-------------|----------|-------------|------------------------------|
| 11-Chloroeicosfluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS) | <2.0 | | 121 | 87.3 | | ng/L | | 72 | 70 - 130 |
| 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS) | <2.0 | | 121 | 95.4 | | ng/L | | 79 | 70 - 130 |
| 4,8-Dioxa-3H-perfluorononanoic acid (ADONA) | <2.0 | | 121 | 108 | | ng/L | | 89 | 70 - 130 |
| Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX) | <2.0 | | 121 | 109 | | ng/L | | 90 | 70 - 130 |
| Perfluorobutanesulfonic acid (PFBS) | <2.0 | | 121 | 110 | | ng/L | | 91 | 70 - 130 |
| Perfluorodecanoic acid (PFDA) | <2.0 | | 121 | 116 | | ng/L | | 96 | 70 - 130 |
| Perfluorododecanoic acid (PFDoA) | <2.0 | | 121 | 109 | | ng/L | | 90 | 70 - 130 |
| Perfluoroheptanoic acid (PFHpA) | <2.0 | | 121 | 109 | | ng/L | | 90 | 70 - 130 |
| Perfluorohexanesulfonic acid (PFHxS) | <2.0 | | 121 | 108 | | ng/L | | 89 | 70 - 130 |
| Perfluorohexanoic acid (PFHxA) | <2.0 | | 121 | 110 | | ng/L | | 90 | 70 - 130 |
| Perfluorononanoic acid (PFNA) | <2.0 | | 121 | 110 | | ng/L | | 91 | 70 - 130 |
| Perfluorooctanesulfonic acid (PFOS) | <2.0 | | 121 | 110 | | ng/L | | 90 | 70 - 130 |
| Perfluorooctanoic acid (PFOA) | <2.0 | | 121 | 109 | | ng/L | | 89 | 70 - 130 |
| Perfluoroundecanoic acid (PFUnA) | <2.0 | | 121 | 113 | | ng/L | | 93 | 70 - 130 |
| Perfluorobutanoic acid (PFBA) | <2.0 | | 121 | 107 | | ng/L | | 89 | 70 - 130 |
| 1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS) | <2.0 | | 121 | 111 | | ng/L | | 92 | 70 - 130 |
| 1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS) | <2.0 | | 121 | 114 | | ng/L | | 94 | 70 - 130 |
| 1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS) | <2.0 | | 121 | 115 | | ng/L | | 95 | 70 - 130 |

QC Sample Results

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

Job ID: 380-96902-1
SDG: 525.2, 533, 537.1

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water (Continued)

Lab Sample ID: 380-96888-D-1-B MS
Matrix: Water
Analysis Batch: 92149

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 91953

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|--|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| Nonafluoro-3,6-dioxaheptanoic acid (NFDHA) | <2.0 | F1 | 121 | 90.4 | | ng/L | | 75 | 70 - 130 |
| Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA) | <2.0 | | 121 | 96.0 | | ng/L | | 79 | 70 - 130 |
| Perfluoro-3-methoxypropanoic acid (PFMPA) | <2.0 | | 121 | 114 | | ng/L | | 94 | 70 - 130 |
| Perfluoro-4-methoxybutanoic acid (PFMBA) | <2.0 | | 121 | 106 | | ng/L | | 87 | 70 - 130 |
| Perfluoropentanoic acid (PFPeA) | <2.0 | | 121 | 107 | | ng/L | | 88 | 70 - 130 |
| Perfluoroheptanesulfonic acid (PFHpS) | <2.0 | | 121 | 107 | | ng/L | | 88 | 70 - 130 |
| Perfluoropentanesulfonic acid (PFPeS) | <2.0 | | 121 | 107 | | ng/L | | 88 | 70 - 130 |

| Isotope Dilution | MS %Recovery | MS Qualifier | Limits |
|------------------|--------------|--------------|----------|
| 13C3 HFPO-DA | 88 | | 50 - 200 |
| 13C6 PFDA | 99 | | 50 - 200 |
| 13C5 PFHxA | 89 | | 50 - 200 |
| 13C4 PFHpA | 95 | | 50 - 200 |
| 13C8 PFOA | 99 | | 50 - 200 |
| 13C9 PFNA | 102 | | 50 - 200 |
| 13C7 PFUnA | 93 | | 50 - 200 |
| 13C2 PFDoA | 94 | | 50 - 200 |
| 13C4 PFBA | 92 | | 50 - 200 |
| 13C5 PFPeA | 105 | | 50 - 200 |
| 13C3 PFBS | 108 | | 50 - 200 |
| 13C3 PFHxS | 112 | | 50 - 200 |
| 13C8 PFOS | 108 | | 50 - 200 |
| 13C2-4:2-FTS | 116 | | 50 - 200 |
| 13C2-6:2-FTS | 105 | | 50 - 200 |
| 13C2-8:2-FTS | 98 | | 50 - 200 |

Lab Sample ID: 380-96888-D-1-C MSD
Matrix: Water
Analysis Batch: 92149

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 91953

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|--|---------------|------------------|-------------|------------|---------------|------|---|------|-------------|-----|-----------|
| 11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS) | <2.0 | | 121 | 94.3 | | ng/L | | 78 | 70 - 130 | 8 | 30 |
| 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS) | <2.0 | | 121 | 106 | | ng/L | | 87 | 70 - 130 | 10 | 30 |
| 4,8-Dioxa-3H-perfluorononanoic acid (ADONA) | <2.0 | | 121 | 117 | | ng/L | | 97 | 70 - 130 | 8 | 30 |
| Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX) | <2.0 | | 121 | 111 | | ng/L | | 92 | 70 - 130 | 3 | 30 |
| Perfluorobutanesulfonic acid (PFBS) | <2.0 | | 121 | 120 | | ng/L | | 99 | 70 - 130 | 8 | 30 |
| Perfluorodecanoic acid (PFDA) | <2.0 | | 121 | 122 | | ng/L | | 101 | 70 - 130 | 5 | 30 |
| Perfluorododecanoic acid (PFDoA) | <2.0 | | 121 | 116 | | ng/L | | 96 | 70 - 130 | 6 | 30 |

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QC Sample Results

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

Job ID: 380-96902-1
SDG: 525.2, 533, 537.1

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water (Continued)

Lab Sample ID: 380-96888-D-1-C MSD
Matrix: Water
Analysis Batch: 92149

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 91953

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---------------|------------------|-------------|------------|---------------|------|---|------|-------------|-----|-----------|
| Perfluoroheptanoic acid (PFHpA) | <2.0 | | 121 | 120 | | ng/L | | 98 | 70 - 130 | 9 | 30 |
| Perfluorohexanesulfonic acid (PFHxS) | <2.0 | | 121 | 114 | | ng/L | | 94 | 70 - 130 | 6 | 30 |
| Perfluorohexanoic acid (PFHxA) | <2.0 | | 121 | 118 | | ng/L | | 97 | 70 - 130 | 8 | 30 |
| Perfluorononanoic acid (PFNA) | <2.0 | | 121 | 117 | | ng/L | | 97 | 70 - 130 | 6 | 30 |
| Perfluorooctanesulfonic acid (PFOS) | <2.0 | | 121 | 119 | | ng/L | | 98 | 70 - 130 | 8 | 30 |
| Perfluorooctanoic acid (PFOA) | <2.0 | | 121 | 116 | | ng/L | | 95 | 70 - 130 | 6 | 30 |
| Perfluoroundecanoic acid (PFUnA) | <2.0 | | 121 | 124 | | ng/L | | 102 | 70 - 130 | 9 | 30 |
| Perfluorobutanoic acid (PFBA) | <2.0 | | 121 | 117 | | ng/L | | 96 | 70 - 130 | 8 | 30 |
| 1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS) | <2.0 | | 121 | 119 | | ng/L | | 99 | 70 - 130 | 7 | 30 |
| 1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS) | <2.0 | | 121 | 117 | | ng/L | | 97 | 70 - 130 | 3 | 30 |
| 1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS) | <2.0 | | 121 | 125 | | ng/L | | 104 | 70 - 130 | 9 | 30 |
| Nonafluoro-3,6-dioxaheptanoic acid (NFDHA) | <2.0 | F1 | 121 | 83.8 | F1 | ng/L | | 69 | 70 - 130 | 8 | 30 |
| Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA) | <2.0 | | 121 | 110 | | ng/L | | 91 | 70 - 130 | 13 | 30 |
| Perfluoro-3-methoxypropanoic acid (PFMPA) | <2.0 | | 121 | 121 | | ng/L | | 100 | 70 - 130 | 6 | 30 |
| Perfluoro-4-methoxybutanoic acid (PFMBA) | <2.0 | | 121 | 118 | | ng/L | | 97 | 70 - 130 | 11 | 30 |
| Perfluoropentanoic acid (PFPeA) | <2.0 | | 121 | 117 | | ng/L | | 96 | 70 - 130 | 9 | 30 |
| Perfluoroheptanesulfonic acid (PFHpS) | <2.0 | | 121 | 117 | | ng/L | | 96 | 70 - 130 | 9 | 30 |
| Perfluoropentanesulfonic acid (PFPeS) | <2.0 | | 121 | 112 | | ng/L | | 93 | 70 - 130 | 5 | 30 |

| Isotope Dilution | MSD %Recovery | MSD Qualifier | MSD Limits |
|------------------|---------------|---------------|------------|
| 13C3 HFPO-DA | 81 | | 50 - 200 |
| 13C6 PFDA | 92 | | 50 - 200 |
| 13C5 PFHxA | 80 | | 50 - 200 |
| 13C4 PFHpA | 83 | | 50 - 200 |
| 13C8 PFOA | 87 | | 50 - 200 |
| 13C9 PFNA | 91 | | 50 - 200 |
| 13C7 PFUnA | 83 | | 50 - 200 |
| 13C2 PFDoA | 89 | | 50 - 200 |
| 13C4 PFBA | 84 | | 50 - 200 |
| 13C5 PFPeA | 93 | | 50 - 200 |
| 13C3 PFBS | 99 | | 50 - 200 |
| 13C3 PFHxS | 106 | | 50 - 200 |
| 13C8 PFOS | 100 | | 50 - 200 |
| 13C2-4:2-FTS | 112 | | 50 - 200 |
| 13C2-6:2-FTS | 102 | | 50 - 200 |
| 13C2-8:2-FTS | 94 | | 50 - 200 |

QC Sample Results

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

Job ID: 380-96902-1
SDG: 525.2, 533, 537.1

Method: 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Lab Sample ID: MBL 380-91928/21-A
Matrix: Water
Analysis Batch: 92224

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 91928

| Analyte | MBL Result | MBL Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|------------------|----------------------|---------------|------|---|-----------------|-----------------|----------------|
| Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX) | <1.0 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 18:28 | 1 |
| Perfluorooctanesulfonic acid (PFOS) | <0.43 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 18:28 | 1 |
| Perfluoroundecanoic acid (PFUnA) | <0.42 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 18:28 | 1 |
| N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA) | <0.58 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 18:28 | 1 |
| N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA) | <0.42 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 18:28 | 1 |
| Perfluorohexanoic acid (PFHxA) | <0.46 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 18:28 | 1 |
| Perfluorododecanoic acid (PFDoA) | <0.54 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 18:28 | 1 |
| Perfluorooctanoic acid (PFOA) | <0.38 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 18:28 | 1 |
| Perfluorodecanoic acid (PFDA) | <0.31 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 18:28 | 1 |
| Perfluorohexanesulfonic acid (PFHxS) | <0.32 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 18:28 | 1 |
| Perfluorobutanesulfonic acid (PFBS) | <0.37 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 18:28 | 1 |
| Perfluoroheptanoic acid (PFHpA) | <0.39 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 18:28 | 1 |
| Perfluorononanoic acid (PFNA) | <0.40 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 18:28 | 1 |
| Perfluorotetradecanoic acid (PFTA) | <0.54 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 18:28 | 1 |
| Perfluorotridecanoic acid (PFTrDA) | <0.36 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 18:28 | 1 |
| 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS) | <0.30 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 18:28 | 1 |
| 11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS) | <0.30 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 18:28 | 1 |
| 4,8-Dioxa-3H-perfluorononanoic acid (ADONA) | <0.60 | | 2.0 | ng/L | | 05/23/24 10:15 | 05/24/24 18:28 | 1 |
| Surrogate | %Recovery | MBL Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| d5-NEtFOSAA | 103 | | 70 - 130 | | | 05/23/24 10:15 | 05/24/24 18:28 | 1 |
| 13C2 PFHxA | 107 | | 70 - 130 | | | 05/23/24 10:15 | 05/24/24 18:28 | 1 |
| 13C2 PFDA | 100 | | 70 - 130 | | | 05/23/24 10:15 | 05/24/24 18:28 | 1 |
| 13C3-GenX | 97 | | 70 - 130 | | | 05/23/24 10:15 | 05/24/24 18:28 | 1 |

Lab Sample ID: LCS 380-91928/23-A
Matrix: Water
Analysis Batch: 92224

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 91928

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|--|-------------|------------|---------------|------|---|------|-------------|
| Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX) | 50.1 | 47.1 | | ng/L | | 94 | 70 - 130 |
| Perfluorooctanesulfonic acid (PFOS) | 50.1 | 51.8 | | ng/L | | 103 | 70 - 130 |
| Perfluoroundecanoic acid (PFUnA) | 50.1 | 46.8 | | ng/L | | 93 | 70 - 130 |
| N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA) | 50.1 | 50.1 | | ng/L | | 100 | 70 - 130 |
| N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA) | 50.1 | 48.5 | | ng/L | | 97 | 70 - 130 |
| Perfluorohexanoic acid (PFHxA) | 50.1 | 50.8 | | ng/L | | 101 | 70 - 130 |
| Perfluorododecanoic acid (PFDoA) | 50.1 | 50.3 | | ng/L | | 100 | 70 - 130 |
| Perfluorooctanoic acid (PFOA) | 50.1 | 52.1 | | ng/L | | 104 | 70 - 130 |
| Perfluorodecanoic acid (PFDA) | 50.1 | 50.1 | | ng/L | | 100 | 70 - 130 |

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QC Sample Results

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

Job ID: 380-96902-1
SDG: 525.2, 533, 537.1

Method: 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Lab Sample ID: LCS 380-91928/23-A
Matrix: Water
Analysis Batch: 92224

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 91928

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|--|-------------|------------|---------------|------|---|------|-------------|
| Perfluorohexanesulfonic acid (PFHxS) | 50.1 | 51.7 | | ng/L | | 103 | 70 - 130 |
| Perfluorobutanesulfonic acid (PFBS) | 50.1 | 48.7 | | ng/L | | 97 | 70 - 130 |
| Perfluoroheptanoic acid (PFHpA) | 50.1 | 50.5 | | ng/L | | 101 | 70 - 130 |
| Perfluorononanoic acid (PFNA) | 50.1 | 52.4 | | ng/L | | 105 | 70 - 130 |
| Perfluorotetradecanoic acid (PFTA) | 50.1 | 47.3 | | ng/L | | 94 | 70 - 130 |
| Perfluorotridecanoic acid (PFTTrDA) | 50.1 | 47.2 | | ng/L | | 94 | 70 - 130 |
| 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS) | 50.1 | 54.7 | | ng/L | | 109 | 70 - 130 |
| 11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS) | 50.1 | 49.3 | | ng/L | | 98 | 70 - 130 |
| 4,8-Dioxa-3H-perfluorononanoic acid (ADONA) | 50.1 | 52.7 | | ng/L | | 105 | 70 - 130 |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|-------------|---------------|---------------|----------|
| d5-NEtFOSAA | 103 | | 70 - 130 |
| 13C2 PFHxA | 104 | | 70 - 130 |
| 13C2 PFDA | 104 | | 70 - 130 |
| 13C3-GenX | 101 | | 70 - 130 |

Lab Sample ID: MRL 380-91928/22-A
Matrix: Water
Analysis Batch: 92224

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 91928

| Analyte | Spike Added | MRL Result | MRL Qualifier | Unit | D | %Rec | %Rec Limits |
|--|-------------|------------|---------------|------|---|------|-------------|
| Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX) | 2.01 | 1.84 | J | ng/L | | 91 | 50 - 150 |
| Perfluorooctanesulfonic acid (PFOS) | 2.01 | 2.03 | J | ng/L | | 101 | 50 - 150 |
| Perfluoroundecanoic acid (PFUnA) | 2.01 | 1.86 | J | ng/L | | 92 | 50 - 150 |
| N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA) | 2.01 | 1.93 | J | ng/L | | 96 | 50 - 150 |
| N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA) | 2.01 | 1.85 | J | ng/L | | 92 | 50 - 150 |
| Perfluorohexanoic acid (PFHxA) | 2.01 | 1.95 | J | ng/L | | 97 | 50 - 150 |
| Perfluorododecanoic acid (PFDoA) | 2.01 | 2.02 | J | ng/L | | 101 | 50 - 150 |
| Perfluorooctanoic acid (PFOA) | 2.01 | 2.01 | J | ng/L | | 100 | 50 - 150 |
| Perfluorodecanoic acid (PFDA) | 2.01 | 1.97 | J | ng/L | | 98 | 50 - 150 |
| Perfluorohexanesulfonic acid (PFHxS) | 2.01 | 1.99 | J | ng/L | | 99 | 50 - 150 |
| Perfluorobutanesulfonic acid (PFBS) | 2.01 | 1.74 | J | ng/L | | 87 | 50 - 150 |
| Perfluoroheptanoic acid (PFHpA) | 2.01 | 2.16 | J | ng/L | | 108 | 50 - 150 |
| Perfluorononanoic acid (PFNA) | 2.01 | 2.09 | J | ng/L | | 104 | 50 - 150 |
| Perfluorotetradecanoic acid (PFTA) | 2.01 | 1.96 | J | ng/L | | 98 | 50 - 150 |

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-96902-1
SDG: 525.2, 533, 537.1

Method: 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Lab Sample ID: MRL 380-91928/22-A
Matrix: Water
Analysis Batch: 92224

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 91928

| Analyte | Spike Added | MRL Result | MRL Qualifier | Unit | D | %Rec | %Rec Limits | |
|---|------------------|------------|---------------|------|---|------|-------------|------------------|
| Perfluorotridecanoic acid (PFTrDA) | 2.01 | 1.88 | J | ng/L | | 94 | 50 - 150 | |
| 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS) | 2.01 | 2.06 | J | ng/L | | 103 | 50 - 150 | |
| 11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS) | 2.01 | 1.90 | J | ng/L | | 95 | 50 - 150 | |
| 4,8-Dioxa-3H-perfluorononanoic acid (ADONA) | 2.01 | 2.10 | J | ng/L | | 105 | 50 - 150 | |
| Surrogate | | | | | | | | |
| | %Recovery | MRL | MRL | | | | | Qualifier |
| | | | | | | | | Limits |
| d5-NEtFOSAA | 94 | | | | | | | 70 - 130 |
| 13C2 PFHxA | 100 | | | | | | | 70 - 130 |
| 13C2 PFDA | 97 | | | | | | | 70 - 130 |
| 13C3-GenX | 87 | | | | | | | 70 - 130 |

Lab Sample ID: 380-96888-A-1-B MS
Matrix: Water
Analysis Batch: 92224

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 91928

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX) | <2.0 | | 50.4 | 44.3 | | ng/L | | 88 | 70 - 130 |
| Perfluorooctanesulfonic acid (PFOS) | <2.0 | | 50.4 | 49.6 | | ng/L | | 98 | 70 - 130 |
| Perfluoroundecanoic acid (PFUnA) | <2.0 | | 50.4 | 45.2 | | ng/L | | 90 | 70 - 130 |
| N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA) | <2.0 | | 50.4 | 47.5 | | ng/L | | 94 | 70 - 130 |
| N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA) | <2.0 | | 50.4 | 46.3 | | ng/L | | 92 | 70 - 130 |
| Perfluorohexanoic acid (PFHxA) | <2.0 | | 50.4 | 48.7 | | ng/L | | 95 | 70 - 130 |
| Perfluorododecanoic acid (PFDoA) | <2.0 | | 50.4 | 47.8 | | ng/L | | 95 | 70 - 130 |
| Perfluorooctanoic acid (PFOA) | <2.0 | | 50.4 | 49.3 | | ng/L | | 96 | 70 - 130 |
| Perfluorodecanoic acid (PFDA) | <2.0 | | 50.4 | 48.8 | | ng/L | | 97 | 70 - 130 |
| Perfluorohexanesulfonic acid (PFHxS) | <2.0 | | 50.4 | 51.0 | | ng/L | | 101 | 70 - 130 |
| Perfluorobutanesulfonic acid (PFBS) | <2.0 | | 50.4 | 50.2 | | ng/L | | 100 | 70 - 130 |
| Perfluoroheptanoic acid (PFHpA) | <2.0 | | 50.4 | 49.2 | | ng/L | | 97 | 70 - 130 |
| Perfluorononanoic acid (PFNA) | <2.0 | | 50.4 | 50.1 | | ng/L | | 99 | 70 - 130 |
| Perfluorotetradecanoic acid (PFTA) | <2.0 | | 50.4 | 45.1 | | ng/L | | 89 | 70 - 130 |
| Perfluorotridecanoic acid (PFTrDA) | <2.0 | | 50.4 | 46.0 | | ng/L | | 91 | 70 - 130 |
| 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS) | <2.0 | | 50.4 | 54.4 | | ng/L | | 108 | 70 - 130 |
| 11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS) | <2.0 | | 50.4 | 47.1 | | ng/L | | 93 | 70 - 130 |

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QC Sample Results

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

Job ID: 380-96902-1
SDG: 525.2, 533, 537.1

Method: 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Lab Sample ID: 380-96888-A-1-B MS
Matrix: Water
Analysis Batch: 92224

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 91928

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|------------------|------------------------|---------------|-----------|--------------|------|---|------|-------------|
| 4,8-Dioxa-3H-perfluorononanoic acid (ADONA) | <2.0 | | 50.4 | 47.6 | | ng/L | | 94 | 70 - 130 |
| Surrogate | | | | | | | | | |
| | %Recovery | MS MS Qualifier | Limits | | | | | | |
| d5-NEtFOSAA | 97 | | 70 - 130 | | | | | | |
| 13C2 PFHxA | 103 | | 70 - 130 | | | | | | |
| 13C2 PFDA | 100 | | 70 - 130 | | | | | | |
| 13C3-GenX | 94 | | 70 - 130 | | | | | | |

Lab Sample ID: 380-96888-A-1-C MSD
Matrix: Water
Analysis Batch: 92224

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 91928

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|--|------------------|--------------------------|---------------|------------|---------------|------|---|------|-------------|-----|-----------|
| Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX) | <2.0 | | 50.3 | 47.8 | | ng/L | | 95 | 70 - 130 | 8 | 30 |
| Perfluorooctanesulfonic acid (PFOS) | <2.0 | | 50.3 | 50.8 | | ng/L | | 101 | 70 - 130 | 2 | 30 |
| Perfluoroundecanoic acid (PFUnA) | <2.0 | | 50.3 | 46.4 | | ng/L | | 92 | 70 - 130 | 3 | 30 |
| N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA) | <2.0 | | 50.3 | 47.7 | | ng/L | | 95 | 70 - 130 | 0 | 30 |
| N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA) | <2.0 | | 50.3 | 47.0 | | ng/L | | 94 | 70 - 130 | 1 | 30 |
| Perfluorohexanoic acid (PFHxA) | <2.0 | | 50.3 | 50.0 | | ng/L | | 98 | 70 - 130 | 3 | 30 |
| Perfluorododecanoic acid (PFDoA) | <2.0 | | 50.3 | 49.2 | | ng/L | | 98 | 70 - 130 | 3 | 30 |
| Perfluorooctanoic acid (PFOA) | <2.0 | | 50.3 | 51.6 | | ng/L | | 101 | 70 - 130 | 5 | 30 |
| Perfluorodecanoic acid (PFDA) | <2.0 | | 50.3 | 50.2 | | ng/L | | 100 | 70 - 130 | 3 | 30 |
| Perfluorohexanesulfonic acid (PFHxS) | <2.0 | | 50.3 | 51.8 | | ng/L | | 102 | 70 - 130 | 2 | 30 |
| Perfluorobutanesulfonic acid (PFBS) | <2.0 | | 50.3 | 50.3 | | ng/L | | 100 | 70 - 130 | 0 | 30 |
| Perfluoroheptanoic acid (PFHpA) | <2.0 | | 50.3 | 50.6 | | ng/L | | 100 | 70 - 130 | 3 | 30 |
| Perfluorononanoic acid (PFNA) | <2.0 | | 50.3 | 50.9 | | ng/L | | 101 | 70 - 130 | 2 | 30 |
| Perfluorotetradecanoic acid (PFTA) | <2.0 | | 50.3 | 46.1 | | ng/L | | 92 | 70 - 130 | 2 | 30 |
| Perfluorotridecanoic acid (PFTTrDA) | <2.0 | | 50.3 | 48.1 | | ng/L | | 96 | 70 - 130 | 5 | 30 |
| 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS) | <2.0 | | 50.3 | 52.6 | | ng/L | | 105 | 70 - 130 | 3 | 30 |
| 11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS) | <2.0 | | 50.3 | 46.5 | | ng/L | | 92 | 70 - 130 | 1 | 30 |
| 4,8-Dioxa-3H-perfluorononanoic acid (ADONA) | <2.0 | | 50.3 | 51.0 | | ng/L | | 101 | 70 - 130 | 7 | 30 |
| Surrogate | | | | | | | | | | | |
| | %Recovery | MSD MSD Qualifier | Limits | | | | | | | | |
| d5-NEtFOSAA | 100 | | 70 - 130 | | | | | | | | |
| 13C2 PFHxA | 104 | | 70 - 130 | | | | | | | | |
| 13C2 PFDA | 103 | | 70 - 130 | | | | | | | | |

QC Sample Results

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

Job ID: 380-96902-1
SDG: 525.2, 533, 537.1

Method: 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Lab Sample ID: 380-96888-A-1-C MSD
Matrix: Water
Analysis Batch: 92224

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 91928

| <i>Surrogate</i> | <i>MSD</i> | <i>MSD</i> | <i>Limits</i> |
|------------------|------------------|------------------|---------------|
| | <i>%Recovery</i> | <i>Qualifier</i> | |
| 13C3-GenX | 100 | | 70 - 130 |

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QC Association Summary

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

Job ID: 380-96902-1
SDG: 525.2, 533, 537.1

GC/MS Semi VOA

Prep Batch: 92588

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|-------------------------------|-----------|--------|--------|------------|
| 380-96902-1 | MOANALUA WELLS | Total/NA | Water | 525.2 | |
| 380-96902-2 | AIEA GULCH WELLS PUMP 2 | Total/NA | Water | 525.2 | |
| 380-96902-3 | AIEA WELLS PUMPS 1&2 (260) P2 | Total/NA | Water | 525.2 | |
| MB 380-92588/21-A | Method Blank | Total/NA | Water | 525.2 | |
| LCS 380-92588/23-A | Lab Control Sample | Total/NA | Water | 525.2 | |
| LCSD 380-92588/24-A | Lab Control Sample Dup | Total/NA | Water | 525.2 | |
| MRL 380-92588/22-A | Lab Control Sample | Total/NA | Water | 525.2 | |
| 380-96902-1 MS | MOANALUA WELLS | Total/NA | Water | 525.2 | |
| 380-96902-2 DU | AIEA GULCH WELLS PUMP 2 | Total/NA | Water | 525.2 | |

Analysis Batch: 92797

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|-------------------------------|-----------|--------|--------|------------|
| 380-96902-1 | MOANALUA WELLS | Total/NA | Water | 525.2 | 92588 |
| 380-96902-2 | AIEA GULCH WELLS PUMP 2 | Total/NA | Water | 525.2 | 92588 |
| 380-96902-3 | AIEA WELLS PUMPS 1&2 (260) P2 | Total/NA | Water | 525.2 | 92588 |
| MB 380-92588/21-A | Method Blank | Total/NA | Water | 525.2 | 92588 |
| LCS 380-92588/23-A | Lab Control Sample | Total/NA | Water | 525.2 | 92588 |
| LCSD 380-92588/24-A | Lab Control Sample Dup | Total/NA | Water | 525.2 | 92588 |
| MRL 380-92588/22-A | Lab Control Sample | Total/NA | Water | 525.2 | 92588 |
| 380-96902-1 MS | MOANALUA WELLS | Total/NA | Water | 525.2 | 92588 |
| 380-96902-2 DU | AIEA GULCH WELLS PUMP 2 | Total/NA | Water | 525.2 | 92588 |

LCMS

Prep Batch: 91928

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|-----------------------------------|-----------|--------|----------|------------|
| 380-96902-1 | MOANALUA WELLS | Total/NA | Water | 537.1 DW | |
| 380-96902-2 | AIEA GULCH WELLS PUMP 2 | Total/NA | Water | 537.1 DW | |
| 380-96902-3 | AIEA WELLS PUMPS 1&2 (260) P2 | Total/NA | Water | 537.1 DW | |
| 380-96902-4 | HALAWA WELLS UNITS 1&2 P1 | Total/NA | Water | 537.1 DW | |
| 380-96902-5 | FB: MOANALUA WELLS | Total/NA | Water | 537.1 DW | |
| 380-96902-6 | FB: AIEA GULCH WELLS PUMP 2 | Total/NA | Water | 537.1 DW | |
| 380-96902-7 | FB: AIEA WELLS PUMPS 1&2 (260) P2 | Total/NA | Water | 537.1 DW | |
| 380-96902-8 | FB: HALAWA WELLS UNITS 1&2 P1 | Total/NA | Water | 537.1 DW | |
| MBL 380-91928/21-A | Method Blank | Total/NA | Water | 537.1 DW | |
| LCS 380-91928/23-A | Lab Control Sample | Total/NA | Water | 537.1 DW | |
| MRL 380-91928/22-A | Lab Control Sample | Total/NA | Water | 537.1 DW | |
| 380-96888-A-1-B MS | Matrix Spike | Total/NA | Water | 537.1 DW | |
| 380-96888-A-1-C MSD | Matrix Spike Duplicate | Total/NA | Water | 537.1 DW | |

Prep Batch: 91953

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|-----------------------------------|-----------|--------|--------|------------|
| 380-96902-1 | MOANALUA WELLS | Total/NA | Water | 533 | |
| 380-96902-2 | AIEA GULCH WELLS PUMP 2 | Total/NA | Water | 533 | |
| 380-96902-3 | AIEA WELLS PUMPS 1&2 (260) P2 | Total/NA | Water | 533 | |
| 380-96902-5 | FB: MOANALUA WELLS | Total/NA | Water | 533 | |
| 380-96902-6 | FB: AIEA GULCH WELLS PUMP 2 | Total/NA | Water | 533 | |
| 380-96902-7 | FB: AIEA WELLS PUMPS 1&2 (260) P2 | Total/NA | Water | 533 | |
| MBL 380-91953/22-A | Method Blank | Total/NA | Water | 533 | |
| LCS 380-91953/24-A | Lab Control Sample | Total/NA | Water | 533 | |
| MRL 380-91953/23-A | Lab Control Sample | Total/NA | Water | 533 | |

QC Association Summary

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

Job ID: 380-96902-1
 SDG: 525.2, 533, 537.1

LCMS (Continued)

Prep Batch: 91953 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 380-96888-D-1-B MS | Matrix Spike | Total/NA | Water | 533 | |
| 380-96888-D-1-C MSD | Matrix Spike Duplicate | Total/NA | Water | 533 | |

Analysis Batch: 92149

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|-----------------------------------|-----------|--------|--------|------------|
| 380-96902-1 | MOANALUA WELLS | Total/NA | Water | 533 | 91953 |
| 380-96902-2 | AIEA GULCH WELLS PUMP 2 | Total/NA | Water | 533 | 91953 |
| 380-96902-3 | AIEA WELLS PUMPS 1&2 (260) P2 | Total/NA | Water | 533 | 91953 |
| 380-96902-5 | FB: MOANALUA WELLS | Total/NA | Water | 533 | 91953 |
| 380-96902-6 | FB: AIEA GULCH WELLS PUMP 2 | Total/NA | Water | 533 | 91953 |
| 380-96902-7 | FB: AIEA WELLS PUMPS 1&2 (260) P2 | Total/NA | Water | 533 | 91953 |
| MBL 380-91953/22-A | Method Blank | Total/NA | Water | 533 | 91953 |
| LCS 380-91953/24-A | Lab Control Sample | Total/NA | Water | 533 | 91953 |
| MRL 380-91953/23-A | Lab Control Sample | Total/NA | Water | 533 | 91953 |
| 380-96888-D-1-B MS | Matrix Spike | Total/NA | Water | 533 | 91953 |
| 380-96888-D-1-C MSD | Matrix Spike Duplicate | Total/NA | Water | 533 | 91953 |

Analysis Batch: 92224

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|-----------------------------------|-----------|--------|--------|------------|
| 380-96902-1 | MOANALUA WELLS | Total/NA | Water | 537.1 | 91928 |
| 380-96902-2 | AIEA GULCH WELLS PUMP 2 | Total/NA | Water | 537.1 | 91928 |
| 380-96902-3 | AIEA WELLS PUMPS 1&2 (260) P2 | Total/NA | Water | 537.1 | 91928 |
| 380-96902-4 | HALAWA WELLS UNITS 1&2 P1 | Total/NA | Water | 537.1 | 91928 |
| 380-96902-5 | FB: MOANALUA WELLS | Total/NA | Water | 537.1 | 91928 |
| 380-96902-6 | FB: AIEA GULCH WELLS PUMP 2 | Total/NA | Water | 537.1 | 91928 |
| 380-96902-7 | FB: AIEA WELLS PUMPS 1&2 (260) P2 | Total/NA | Water | 537.1 | 91928 |
| 380-96902-8 | FB: HALAWA WELLS UNITS 1&2 P1 | Total/NA | Water | 537.1 | 91928 |
| MBL 380-91928/21-A | Method Blank | Total/NA | Water | 537.1 | 91928 |
| LCS 380-91928/23-A | Lab Control Sample | Total/NA | Water | 537.1 | 91928 |
| MRL 380-91928/22-A | Lab Control Sample | Total/NA | Water | 537.1 | 91928 |
| 380-96888-A-1-B MS | Matrix Spike | Total/NA | Water | 537.1 | 91928 |
| 380-96888-A-1-C MSD | Matrix Spike Duplicate | Total/NA | Water | 537.1 | 91928 |

Lab Chronicle

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

Job ID: 380-96902-1
SDG: 525.2, 533, 537.1

Client Sample ID: MOANALUA WELLS

Lab Sample ID: 380-96902-1

Date Collected: 05/20/24 10:09

Matrix: Water

Date Received: 05/22/24 10:34

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|--------|----------------------|
| Total/NA | Prep | 525.2 | | | 92588 | OTM3 | EA POM | 05/29/24 09:15 |
| Total/NA | Analysis | 525.2 | | 1 | 92797 | UPAC | EA POM | 05/30/24 13:09 |
| Total/NA | Prep | 533 | | | 91953 | A5GB | EA POM | 05/23/24 10:26 |
| Total/NA | Analysis | 533 | | 1 | 92149 | Y5FM | EA POM | 05/24/24 15:50 |
| Total/NA | Prep | 537.1 DW | | | 91928 | SL5Q | EA POM | 05/23/24 10:15 |
| Total/NA | Analysis | 537.1 | | 1 | 92224 | R6YA | EA POM | 05/24/24 20:16 |

Client Sample ID: AIEA GULCH WELLS PUMP 2

Lab Sample ID: 380-96902-2

Date Collected: 05/20/24 11:01

Matrix: Water

Date Received: 05/22/24 10:34

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|--------|----------------------|
| Total/NA | Prep | 525.2 | | | 92588 | OTM3 | EA POM | 05/29/24 09:15 |
| Total/NA | Analysis | 525.2 | | 1 | 92797 | UPAC | EA POM | 05/30/24 13:29 |
| Total/NA | Prep | 533 | | | 91953 | A5GB | EA POM | 05/23/24 10:26 |
| Total/NA | Analysis | 533 | | 1 | 92149 | Y5FM | EA POM | 05/24/24 16:00 |
| Total/NA | Prep | 537.1 DW | | | 91928 | SL5Q | EA POM | 05/23/24 10:15 |
| Total/NA | Analysis | 537.1 | | 1 | 92224 | R6YA | EA POM | 05/24/24 20:25 |

Client Sample ID: AIEA WELLS PUMPS 1&2 (260) P2

Lab Sample ID: 380-96902-3

Date Collected: 05/20/24 11:27

Matrix: Water

Date Received: 05/22/24 10:34

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|--------|----------------------|
| Total/NA | Prep | 525.2 | | | 92588 | OTM3 | EA POM | 05/29/24 09:15 |
| Total/NA | Analysis | 525.2 | | 1 | 92797 | UPAC | EA POM | 05/30/24 13:49 |
| Total/NA | Prep | 533 | | | 91953 | A5GB | EA POM | 05/23/24 10:26 |
| Total/NA | Analysis | 533 | | 1 | 92149 | Y5FM | EA POM | 05/24/24 16:10 |
| Total/NA | Prep | 537.1 DW | | | 91928 | SL5Q | EA POM | 05/23/24 10:15 |
| Total/NA | Analysis | 537.1 | | 1 | 92224 | R6YA | EA POM | 05/24/24 20:35 |

Client Sample ID: HALAWA WELLS UNITS 1&2 P1

Lab Sample ID: 380-96902-4

Date Collected: 05/20/24 10:35

Matrix: Water

Date Received: 05/22/24 10:34

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|--------|----------------------|
| Total/NA | Prep | 537.1 DW | | | 91928 | SL5Q | EA POM | 05/23/24 10:15 |
| Total/NA | Analysis | 537.1 | | 1 | 92224 | R6YA | EA POM | 05/24/24 20:45 |

Client Sample ID: FB: MOANALUA WELLS

Lab Sample ID: 380-96902-5

Date Collected: 05/20/24 10:09

Matrix: Water

Date Received: 05/22/24 10:34

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|--------|----------------------|
| Total/NA | Prep | 533 | | | 91953 | A5GB | EA POM | 05/23/24 10:26 |
| Total/NA | Analysis | 533 | | 1 | 92149 | Y5FM | EA POM | 05/24/24 16:29 |

Eurofins Eaton Analytical Pomona

Lab Chronicle

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

Job ID: 380-96902-1
SDG: 525.2, 533, 537.1

Client Sample ID: FB: MOANALUA WELLS

Lab Sample ID: 380-96902-5

Date Collected: 05/20/24 10:09

Matrix: Water

Date Received: 05/22/24 10:34

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Batch Analyst | Lab | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------------|--------|----------------------|
| Total/NA | Prep | 537.1 DW | | | 91928 | SL5Q | EA POM | 05/23/24 10:15 |
| Total/NA | Analysis | 537.1 | | 1 | 92224 | R6YA | EA POM | 05/24/24 21:06 |

Client Sample ID: FB: AIEA GULCH WELLS PUMP 2

Lab Sample ID: 380-96902-6

Date Collected: 05/20/24 11:01

Matrix: Water

Date Received: 05/22/24 10:34

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Batch Analyst | Lab | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------------|--------|----------------------|
| Total/NA | Prep | 533 | | | 91953 | A5GB | EA POM | 05/23/24 10:26 |
| Total/NA | Analysis | 533 | | 1 | 92149 | Y5FM | EA POM | 05/24/24 16:38 |
| Total/NA | Prep | 537.1 DW | | | 91928 | SL5Q | EA POM | 05/23/24 10:15 |
| Total/NA | Analysis | 537.1 | | 1 | 92224 | R6YA | EA POM | 05/24/24 21:17 |

Client Sample ID: FB: AIEA WELLS PUMPS 1&2 (260) P2

Lab Sample ID: 380-96902-7

Date Collected: 05/20/24 11:27

Matrix: Water

Date Received: 05/22/24 10:34

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Batch Analyst | Lab | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------------|--------|----------------------|
| Total/NA | Prep | 533 | | | 91953 | A5GB | EA POM | 05/23/24 10:26 |
| Total/NA | Analysis | 533 | | 1 | 92149 | Y5FM | EA POM | 05/24/24 16:48 |
| Total/NA | Prep | 537.1 DW | | | 91928 | SL5Q | EA POM | 05/23/24 10:15 |
| Total/NA | Analysis | 537.1 | | 1 | 92224 | R6YA | EA POM | 05/24/24 21:26 |

Client Sample ID: FB: HALAWA WELLS UNITS 1&2 P1

Lab Sample ID: 380-96902-8

Date Collected: 05/20/24 10:35

Matrix: Water

Date Received: 05/22/24 10:34

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Batch Analyst | Lab | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------------|--------|----------------------|
| Total/NA | Prep | 537.1 DW | | | 91928 | SL5Q | EA POM | 05/23/24 10:15 |
| Total/NA | Analysis | 537.1 | | 1 | 92224 | R6YA | EA POM | 05/24/24 21:36 |

Laboratory References:

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

Accreditation/Certification Summary

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

Job ID: 380-96902-1
 SDG: 525.2, 533, 537.1

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 | 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 |

Method Summary

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

Job ID: 380-96902-1
SDG: 525.2, 533, 537.1

| Method | Method Description | Protocol | Laboratory |
|----------|---|----------|------------|
| 525.2 | Semivolatile Organic Compounds (GC/MS) | EPA | EA POM |
| 533 | Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water | EPA | EA POM |
| 537.1 | Perfluorinated Alkyl Acids (LC/MS) | EPA | EA POM |
| 525.2 | Extraction of Semivolatile Compounds | EPA | EA POM |
| 533 | Extraction of Perfluorinated and Polyfluorinated Alkyl Acids | EPA | EA POM |
| 537.1 DW | Extraction of Perfluorinated Alkyl Acids | EPA | EA POM |

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

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



Sample Summary

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

Job ID: 380-96902-1
SDG: 525.2, 533, 537.1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|-----------------------------------|--------|----------------|----------------|
| 380-96902-1 | MOANALUA WELLS | Water | 05/20/24 10:09 | 05/22/24 10:34 |
| 380-96902-2 | AIEA GULCH WELLS PUMP 2 | Water | 05/20/24 11:01 | 05/22/24 10:34 |
| 380-96902-3 | AIEA WELLS PUMPS 1&2 (260) P2 | Water | 05/20/24 11:27 | 05/22/24 10:34 |
| 380-96902-4 | HALAWA WELLS UNITS 1&2 P1 | Water | 05/20/24 10:35 | 05/22/24 10:34 |
| 380-96902-5 | FB: MOANALUA WELLS | Water | 05/20/24 10:09 | 05/22/24 10:34 |
| 380-96902-6 | FB: AIEA GULCH WELLS PUMP 2 | Water | 05/20/24 11:01 | 05/22/24 10:34 |
| 380-96902-7 | FB: AIEA WELLS PUMPS 1&2 (260) P2 | Water | 05/20/24 11:27 | 05/22/24 10:34 |
| 380-96902-8 | FB: HALAWA WELLS UNITS 1&2 P1 | Water | 05/20/24 10:35 | 05/22/24 10:34 |

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Monrovia, CA (Suite 100)
 750 Royal Oaks Drive Suite 100
 Monrovia, CA 91016
 Phone (626) 386-1100

Chain of Custody Record



| | | | |
|--|---|--|--|
| Client Information Client Contact: Dr. Ron Fenstermacher Company: City & County of Honolulu Address: 630 South Beretania Street, Chemistry Lab City: Honolulu State/Zip: HI, 96843 Phone: 808-748-5091 (tel) Email: rfenstermacher@hbws.org Project Name: RED-HILL/HBWS sites Event Desc. RUSH Weekly Red Hill Site: S50W# | | Lab PM: Arada, Rachelle E-Mail: Rachelle.Arada@et.euronisus.com Carrier Tracking No(s): 380-27941-2757.2 State of Origin: | |
| Due Date Requested: TAT Requested (days): Compliance Project: Δ No PO #: C20525101 exp 05312023 WO #: | | Analysis Requested Perform MS/MSD (Yes or No): Field Filtered Sample (Yes or No): SUBCONTRACT - 825 PAH Physis LL (EAL) + TICs 80158_GRO_LL - (MOD) GRO C18 80158_ORO_LL_CS - HNL Ranges C10-C24/C24-C36/C8 525.2_PREC - (MOD) 625plus PLUS TICs 537.1_DW_PREC - 537.1 Full List 53 - All Analytes | |
| Sample Identification MOANALUA WELLS AIEA GULCH WELLS PUMP2 AIEA WELLS PUMPS 1&2 (260) PZ HALAWA WELLS UNITS 1&2 P1 FB MOANALUA WELLS FB AIEA GULCH WELLS PUMP2 FB AIEA WELLS PUMPS 1&2 (260) FB HALAWA WELLS UNITS 1&2 | Sample Date: 20-May-2024 20-May-2024 20-May-2024 20-May-2024 20-May-2024 20-May-2024 20-May-2024 | Sample Time: 1009 1101 1127 1035 1009 1101 1127 1035 | Sample Type (C=Comp, G=grab): G G G G G G G G G G G |
| Matrix (Water, Solid, Tissue, Air): Water Water Water Water Water Water Water Water Water Water Water | | Preservation Code: Water Water Water Water Water Water Water Water Water 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 Deliverable Requested I II III IV Other (specify) | | Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months | |
| Empty Kit Relinquished by: [Redacted] Relinquished by: [Redacted] Relinquished by: | | Method of Shipment: ① FF64 9156 5938 ② FF64 9156 5949 Date/Time: 05/22/2024 10:34 Received by: G. RETNER Date/Time: | |
| Custody Seals Intact Δ Yes Δ No Custody Seal No | | Cooler Temperature(s) °C and Other Remarks: FSTA 0.4-0.1-1.3 / ② 0.5-0.1-0.7-0.8-0.9-1.0-1.1-1.2-1.3-1.4-1.5-1.6-1.7-1.8-1.9-2.0-2.1-2.2-2.3-2.4-2.5-2.6-2.7-2.8-2.9-3.0-3.1-3.2-3.3-3.4-3.5-3.6-3.7-3.8-3.9-4.0-4.1-4.2-4.3-4.4-4.5-4.6-4.7-4.8-4.9-5.0-5.1-5.2-5.3-5.4-5.5-5.6-5.7-5.8-5.9-6.0-6.1-6.2-6.3-6.4-6.5-6.6-6.7-6.8-6.9-7.0-7.1-7.2-7.3-7.4-7.5-7.6-7.7-7.8-7.9-8.0-8.1-8.2-8.3-8.4-8.5-8.6-8.7-8.8-8.9-9.0-9.1-9.2-9.3-9.4-9.5-9.6-9.7-9.8-9.9-10.0-10.1-10.2-10.3-10.4-10.5-10.6-10.7-10.8-10.9-11.0-11.1-11.2-11.3-11.4-11.5-11.6-11.7-11.8-11.9-12.0-12.1-12.2-12.3-12.4-12.5-12.6-12.7-12.8-12.9-13.0-13.1-13.2-13.3-13.4-13.5-13.6-13.7-13.8-13.9-14.0-14.1-14.2-14.3-14.4-14.5-14.6-14.7-14.8-14.9-15.0-15.1-15.2-15.3-15.4-15.5-15.6-15.7-15.8-15.9-16.0-16.1-16.2-16.3-16.4-16.5-16.6-16.7-16.8-16.9-17.0-17.1-17.2-17.3-17.4-17.5-17.6-17.7-17.8-17.9-18.0-18.1-18.2-18.3-18.4-18.5-18.6-18.7-18.8-18.9-19.0-19.1-19.2-19.3-19.4-19.5-19.6-19.7-19.8-19.9-20.0-20.1-20.2-20.3-20.4-20.5-20.6-20.7-20.8-20.9-21.0-21.1-21.2-21.3-21.4-21.5-21.6-21.7-21.8-21.9-22.0-22.1-22.2-22.3-22.4-22.5-22.6-22.7-22.8-22.9-23.0-23.1-23.2-23.3-23.4-23.5-23.6-23.7-23.8-23.9-24.0-24.1-24.2-24.3-24.4-24.5-24.6-24.7-24.8-24.9-25.0-25.1-25.2-25.3-25.4-25.5-25.6-25.7-25.8-25.9-26.0-26.1-26.2-26.3-26.4-26.5-26.6-26.7-26.8-26.9-27.0-27.1-27.2-27.3-27.4-27.5-27.6-27.7-27.8-27.9-28.0-28.1-28.2-28.3-28.4-28.5-28.6-28.7-28.8-28.9-29.0-29.1-29.2-29.3-29.4-29.5-29.6-29.7-29.8-29.9-30.0-30.1-30.2-30.3-30.4-30.5-30.6-30.7-30.8-30.9-31.0-31.1-31.2-31.3-31.4-31.5-31.6-31.7-31.8-31.9-32.0-32.1-32.2-32.3-32.4-32.5-32.6-32.7-32.8-32.9-33.0-33.1-33.2-33.3-33.4-33.5-33.6-33.7-33.8-33.9-34.0-34.1-34.2-34.3-34.4-34.5-34.6-34.7-34.8-34.9-35.0-35.1-35.2-35.3-35.4-35.5-35.6-35.7-35.8-35.9-36.0-36.1-36.2-36.3-36.4-36.5-36.6-36.7-36.8-36.9-37.0-37.1-37.2-37.3-37.4-37.5-37.6-37.7-37.8-37.9-38.0-38.1-38.2-38.3-38.4-38.5-38.6-38.7-38.8-38.9-39.0-39.1-39.2-39.3-39.4-39.5-39.6-39.7-39.8-39.9-40.0-40.1-40.2-40.3-40.4-40.5-40.6-40.7-40.8-40.9-41.0-41.1-41.2-41.3-41.4-41.5-41.6-41.7-41.8-41.9-42.0-42.1-42.2-42.3-42.4-42.5-42.6-42.7-42.8-42.9-43.0-43.1-43.2-43.3-43.4-43.5-43.6-43.7-43.8-43.9-44.0-44.1-44.2-44.3-44.4-44.5-44.6-44.7-44.8-44.9-45.0-45.1-45.2-45.3-45.4-45.5-45.6-45.7-45.8-45.9-46.0-46.1-46.2-46.3-46.4-46.5-46.6-46.7-46.8-46.9-47.0-47.1-47.2-47.3-47.4-47.5-47.6-47.7-47.8-47.9-48.0-48.1-48.2-48.3-48.4-48.5-48.6-48.7-48.8-48.9-49.0-49.1-49.2-49.3-49.4-49.5-49.6-49.7-49.8-49.9-50.0-50.1-50.2-50.3-50.4-50.5-50.6-50.7-50.8-50.9-51.0-51.1-51.2-51.3-51.4-51.5-51.6-51.7-51.8-51.9-52.0-52.1-52.2-52.3-52.4-52.5-52.6-52.7-52.8-52.9-53.0-53.1-53.2-53.3-53.4-53.5-53.6-53.7-53.8-53.9-54.0-54.1-54.2-54.3-54.4-54.5-54.6-54.7-54.8-54.9-55.0-55.1-55.2-55.3-55.4-55.5-55.6-55.7-55.8-55.9-56.0-56.1-56.2-56.3-56.4-56.5-56.6-56.7-56.8-56.9-57.0-57.1-57.2-57.3-57.4-57.5-57.6-57.7-57.8-57.9-58.0-58.1-58.2-58.3-58.4-58.5-58.6-58.7-58.8-58.9-59.0-59.1-59.2-59.3-59.4-59.5-59.6-59.7-59.8-59.9-60.0-60.1-60.2-60.3-60.4-60.5-60.6-60.7-60.8-60.9-61.0-61.1-61.2-61.3-61.4-61.5-61.6-61.7-61.8-61.9-62.0-62.1-62.2-62.3-62.4-62.5-62.6-62.7-62.8-62.9-63.0-63.1-63.2-63.3-63.4-63.5-63.6-63.7-63.8-63.9-64.0-64.1-64.2-64.3-64.4-64.5-64.6-64.7-64.8-64.9-65.0-65.1-65.2-65.3-65.4-65.5-65.6-65.7-65.8-65.9-66.0-66.1-66.2-66.3-66.4-66.5-66.6-66.7-66.8-66.9-67.0-67.1-67.2-67.3-67.4-67.5-67.6-67.7-67.8-67.9-68.0-68.1-68.2-68.3-68.4-68.5-68.6-68.7-68.8-68.9-69.0-69.1-69.2-69.3-69.4-69.5-69.6-69.7-69.8-69.9-70.0-70.1-70.2-70.3-70.4-70.5-70.6-70.7-70.8-70.9-71.0-71.1-71.2-71.3-71.4-71.5-71.6-71.7-71.8-71.9-72.0-72.1-72.2-72.3-72.4-72.5-72.6-72.7-72.8-72.9-73.0-73.1-73.2-73.3-73.4-73.5-73.6-73.7-73.8-73.9-74.0-74.1-74.2-74.3-74.4-74.5-74.6-74.7-74.8-74.9-75.0-75.1-75.2-75.3-75.4-75.5-75.6-75.7-75.8-75.9-76.0-76.1-76.2-76.3-76.4-76.5-76.6-76.7-76.8-76.9-77.0-77.1-77.2-77.3-77.4-77.5-77.6-77.7-77.8-77.9-78.0-78.1-78.2-78.3-78.4-78.5-78.6-78.7-78.8-78.9-79.0-79.1-79.2-79.3-79.4-79.5-79.6-79.7-79.8-79.9-80.0-80.1-80.2-80.3-80.4-80.5-80.6-80.7-80.8-80.9-81.0-81.1-81.2-81.3-81.4-81.5-81.6-81.7-81.8-81.9-82.0-82.1-82.2-82.3-82.4-82.5-82.6-82.7-82.8-82.9-83.0-83.1-83.2-83.3-83.4-83.5-83.6-83.7-83.8-83.9-84.0-84.1-84.2-84.3-84.4-84.5-84.6-84.7-84.8-84.9-85.0-85.1-85.2-85.3-85.4-85.5-85.6-85.7-85.8-85.9-86.0-86.1-86.2-86.3-86.4-86.5-86.6-86.7-86.8-86.9-87.0-87.1-87.2-87.3-87.4-87.5-87.6-87.7-87.8-87.9-88.0-88.1-88.2-88.3-88.4-88.5-88.6-88.7-88.8-88.9-89.0-89.1-89.2-89.3-89.4-89.5-89.6-89.7-89.8-89.9-90.0-90.1-90.2-90.3-90.4-90.5-90.6-90.7-90.8-90.9-91.0-91.1-91.2-91.3-91.4-91.5-91.6-91.7-91.8-91.9-92.0-92.1-92.2-92.3-92.4-92.5-92.6-92.7-92.8-92.9-93.0-93.1-93.2-93.3-93.4-93.5-93.6-93.7-93.8-93.9-94.0-94.1-94.2-94.3-94.4-94.5-94.6-94.7-94.8-94.9-95.0-95.1-95.2-95.3-95.4-95.5-95.6-95.7-95.8-95.9-96.0-96.1-96.2-96.3-96.4-96.5-96.6-96.7-96.8-96.9-97.0-97.1-97.2-97.3-97.4-97.5-97.6-97.7-97.8-97.9-98.0-98.1-98.2-98.3-98.4-98.5-98.6-98.7-98.8-98.9-99.0-99.1-99.2-99.3-99.4-99.5-99.6-99.7-99.8-99.9-100.0-100.1-100.2-100.3-100.4-100.5-100.6-100.7-100.8-100.9-101.0-101.1-101.2-101.3-101.4-101.5-101.6-101.7-101.8-101.9-102.0-102.1-102.2-102.3-102.4-102.5-102.6-102.7-102.8-102.9-103.0-103.1-103.2-103.3-103.4-103.5-103.6-103.7-103.8-103.9-104.0-104.1-104.2-104.3-104.4-104.5-104.6-104.7-104.8-104.9-105.0-105.1-105.2-105.3-105.4-105.5-105.6-105.7-105.8-105.9-106.0-106.1-106.2-106.3-106.4-106.5-106.6-106.7-106.8-106.9-107.0-107.1-107.2-107.3-107.4-107.5-107.6-107.7-107.8-107.9-108.0-108.1-108.2-108.3-108.4-108.5-108.6-108.7-108.8-108.9-109.0-109.1-109.2-109.3-109.4-109.5-109.6-109.7-109.8-109.9-110.0-110.1-110.2-110.3-110.4-110.5-110.6-110.7-110.8-110.9-111.0-111.1-111.2-111.3-111.4-111.5-111.6-111.7-111.8-111.9-112.0-112.1-112.2-112.3-112.4-112.5-112.6-112.7-112.8-112.9-113.0-113.1-113.2-113.3-113.4-113.5-113.6-113.7-113.8-113.9-114.0-114.1-114.2-114.3-114.4-114.5-114.6-114.7-114.8-114.9-115.0-115.1-115.2-115.3-115.4-115.5-115.6-115.7-115.8-115.9-116.0-116.1-116.2-116.3-116.4-116.5-116.6-116.7-116.8-116.9-117.0-117.1-117.2-117.3-117.4-117.5-117.6-117.7-117.8-117.9-118.0-118.1-118.2-118.3-118.4-118.5-118.6-118.7-118.8-118.9-119.0-119.1-119.2-119.3-119.4-119.5-119.6-119.7-119.8-119.9-120.0-120.1-120.2-120.3-120.4-120.5-120.6-120.7-120.8-120.9-121.0-121.1-121.2-121.3-121.4-121.5-121.6-121.7-121.8-121.9-122.0-122.1-122.2-122.3-122.4-122.5-122.6-122.7-122.8-122.9-123.0-123.1-123.2-123.3-123.4-123.5-123.6-123.7-123.8-123.9-124.0-124.1-124.2-124.3-124.4-124.5-124.6-124.7-124.8-124.9-125.0-125.1-125.2-125.3-125.4-125.5-125.6-125.7-125.8-125.9-126.0-126.1-126.2-126.3-126.4-126.5-126.6-126.7-126.8-126.9-127.0-127.1-127.2-127.3-127.4-127.5-127.6-127.7-127.8-127.9-128.0-128.1-128.2-128.3-128.4-128.5-128.6-128.7-128.8-128.9-129.0-129.1-129.2-129.3-129.4-129.5-129.6-129.7-129.8-129.9-130.0-130.1-130.2-130.3-130.4-130.5-130.6-130.7-130.8-130.9-131.0-131.1-131.2-131.3-131.4-131.5-131.6-131.7-131.8-131.9-132.0-132.1-132.2-132.3-132.4-132.5-132.6-132.7-132.8-132.9-133.0-133.1-133.2-133.3-133.4-133.5-133.6-133.7-133.8-133.9-134.0-134.1-134.2-134.3-134.4-134.5-134.6-134.7-134.8-134.9-135.0-135.1-135.2-135.3-135.4-135.5-135.6-135.7-135.8-135.9-136.0-136.1-136.2-136.3-136.4-136.5-136.6-136.7-136.8-136.9-137.0-137.1-137.2-137.3-137.4-137.5-137.6-137.7-137.8-137.9-138.0-138.1-138.2-138.3-138.4-138.5-138.6-138.7-138.8-138.9-139.0-139.1-139.2-139.3-139.4-139.5-139.6-139.7-139.8-139.9-140.0-140.1-140.2-140.3-140.4-140.5-140.6-140.7-140.8-140.9-141.0-141.1-141.2-141.3-141.4-141.5-141.6-141.7-141.8-141.9-142.0-142.1-142.2-142.3-142.4-142.5-142.6-142.7-142.8-142.9-143.0-143.1-143.2-143.3-143.4-143.5-143.6-143.7-143.8-143.9-144.0-144.1-144.2-144.3-144.4-144.5-144.6-144.7-144.8-144.9-145.0-145.1-145.2-145.3-145.4-145.5-145.6-145.7-145.8-145.9-146.0-146.1-146.2-146.3-146.4-146.5-146.6-146.7-146.8-146.9-147.0-147.1-147.2-147.3-147.4-147.5-147.6-147.7-147.8-147.9-148.0-148.1-148.2-148.3-148.4-148.5-148.6-148.7-148.8-148.9-149.0-149.1-149.2-149.3-149.4-149.5-149.6-149.7-149.8-149.9-150.0-150.1-150.2-150.3-150.4-150.5-150.6-150.7-150.8-150.9-151.0-151.1-151.2-151.3-151.4-151.5-151.6-151.7-151.8-151.9-152.0-152.1-152.2-152.3-152.4-152.5-152.6-152.7-152.8-152.9-153.0-153.1-153.2-153.3-153.4-153.5-153.6-153.7-153.8-153.9-154.0-154.1-154.2-154.3-154.4-154.5-154.6-154.7-154.8-154.9-155.0-155.1-155.2-155.3-155.4-155.5-155.6-155.7-155.8-155.9-156.0-156.1-156.2-156.3-156.4-156.5-156.6-156.7-156.8-156.9-157.0-157.1-157.2-157.3-157.4-157.5-157.6-157.7-157.8-157.9-158.0-158.1-158.2-158.3-158.4-158.5-158.6-158.7-158.8-158.9-159.0-159.1-159.2-159.3-159.4-159.5-159.6-159.7-159.8-159.9-160.0-160.1-160.2-160.3-160.4-160.5-160.6-160.7-160.8-160.9-161.0-161.1-161.2-161.3-161.4-161.5-161.6-161.7-161.8-161.9-162.0-162.1-162.2-162.3-162.4-162.5-162.6-162.7-162.8-162.9-163.0-163.1-163.2-163.3-163.4-163.5-163.6-163.7-163.8-163.9-164.0-164.1-164.2-164.3-164.4-164.5-164.6-164.7-164.8-164.9-165.0-165.1-165.2-165.3-165.4-165.5-165.6-165.7-165.8-165.9-166.0-166.1-166.2-166.3-166.4-166.5-166.6-166.7-166.8-166.9-167.0-167.1-167.2-167.3-167.4-167.5-167.6-167.7-167.8-167.9-168.0-168.1-168.2-168.3-168.4-168.5-168.6-168.7-168.8-168.9-169.0-169.1-169.2-169.3-169.4-169.5-169.6-169.7-169.8-169.9-170.0-170.1-170.2-170.3-170.4-170.5-170.6-170.7-170.8-170.9-171.0-171.1-171.2-171.3-171.4-171.5-171.6-171.7-171.8-171.9-172.0-172.1-172.2-172.3-172.4-172.5-172.6-172.7-172.8-172.9-173.0-173.1-173.2-173.3-173.4-173.5-173.6-173.7-173.8-173.9-174.0-174.1-174.2-174.3-174.4-174.5-174.6-174.7-174.8-174.9-175.0-175.1-175.2-175.3-175.4-175.5-175.6-175.7-175.8-175.9-176.0-176.1-176.2-176.3-176.4-176.5-176.6-176.7-176.8-176.9-177.0-177.1-177.2-177.3-177.4-177.5-177.6-177.7-177.8-177.9-178.0-178.1-178.2-178.3-178.4-178.5-178.6-178.7-178.8-178.9-179.0-179.1-179.2-179.3-179.4-179.5-179.6-179.7-179.8-179.9-180.0-180.1-180.2-180.3-180.4-180.5-180.6-180.7-180.8-180.9-181.0-181.1-181.2-181.3-181.4-181.5-181.6-181.7-181.8-181.9-182.0-182.1-182.2-182.3-182.4-182.5-182.6-182.7-182.8-182.9-183.0-183.1-183.2-183.3-183.4-183.5-183.6-183.7-183.8-183.9-184.0-184.1-184.2-184.3-184.4-184.5-184.6-184.7-184.8-184.9-185.0-185.1-185.2-185.3-185.4-185.5-185.6-185.7-185.8-185.9-186.0-186.1-186.2-186.3-186.4-186.5-186.6-186.7-186.8-186.9-187.0-187.1-187.2-187.3-187.4-187.5-187.6-187.7-187.8-187.9-188.0-188.1-188.2-188.3-188.4-188.5-188.6-188.7-188.8-188.9-189.0-189.1-189.2-189.3-189.4-189.5-189.6-189.7-189.8-189.9-190.0-190.1-190.2-190.3-190.4-190.5-190.6-190.7-190.8-190.9-191.0-191.1-191.2-191.3-191.4-191.5-191.6-191.7-191.8-191.9-192.0-192.1-192.2-192.3-192.4-192.5-192.6-192.7-192.8-192.9-193.0-193.1-193.2-193.3-193.4-193.5-193.6-193.7-193.8-193.9-194.0-194.1-194.2-194.3-194.4-194.5-194.6-194.7-194.8-194.9-195.0-195.1-195.2-195.3-195.4-195.5-195.6-195.7-195.8-195.9-196.0-196.1-196.2-196.3-196.4-196.5-196. | |

Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-96902-1
SDG Number: 525.2, 533, 537.1

Login Number: 96902
List Number: 1
Creator: Elyas, Matthew

List Source: Eurofins Eaton Analytical Pomona

| Question | Answer | Comment |
|--|--------|---------|
| The cooler's custody seal, if present, is intact. | True | |
| Sample custody seals, if present, are intact. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and 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 | |
| Samples do not require splitting or compositing. | True | |
| Container provided by EEA | True | |

