

# 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

INTERA - Red-Hill-Incident  
Site J

## JOB NUMBER

380-151902-1

# Eurofins Eaton Analytical Pomona

## Job Notes

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

## Compliance Statement

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

## Authorization



Authorized for release by  
Maria Lopez, Project Manager  
[Maria.Lopez@et.eurofinsus.com](mailto:Maria.Lopez@et.eurofinsus.com)  
(626)386-1100

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## Definitions/Glossary

Client: City & County of Honolulu  
Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-151902-1  
SDG: Site J

### 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: INTERA - Red-Hill-Incident

Job ID: 380-151902-1

**Job ID: 380-151902-1**

**Eurofins Eaton Analytical Pomona**

### **Job Narrative 380-151902-1**

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

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

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

#### **Receipt**

The sample was received on 5/22/2025 10:30 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.6°C.

#### **PFAS**

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

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Detection Summary

Client: City & County of Honolulu  
Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-151902-1  
SDG: Site J

Client Sample ID: BWS2253-J1-AQ      Lab Sample ID: 380-151902-1

No Detections.

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

This Detection Summary does not include radiochemical test results.

# Client Sample Results

Client: City & County of Honolulu  
Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-151902-1  
SDG: Site J

Client Sample ID: BWS2253-J1-AQ

Lab Sample ID: 380-151902-1

Date Collected: 05/21/25 12:30

Matrix: Drinking Water

Date Received: 05/22/25 10:30

## Method: DoD 6.0 QSM B-24 - PFAS for QSM 6.0, Table B-24

| Analyte                                                  | Result | Qualifier | RL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------------------------------------------------------|--------|-----------|-----|------|---|----------------|----------------|---------|
| Perfluorobutanoic acid (PFBA)                            | <3.4   |           | 3.4 | ng/L |   | 05/27/25 04:15 | 05/28/25 09:56 | 1       |
| Perfluoropentanoic acid (PFPeA)                          | <1.7   |           | 1.7 | ng/L |   | 05/27/25 04:15 | 05/28/25 09:56 | 1       |
| Perfluorohexanoic acid (PFHxA)                           | <1.7   |           | 1.7 | ng/L |   | 05/27/25 04:15 | 05/28/25 09:56 | 1       |
| Perfluoroheptanoic acid (PFHpA)                          | <1.7   |           | 1.7 | ng/L |   | 05/27/25 04:15 | 05/28/25 09:56 | 1       |
| Perfluorooctanoic acid (PFOA)                            | <1.7   |           | 1.7 | ng/L |   | 05/27/25 04:15 | 05/28/25 09:56 | 1       |
| Perfluorononanoic acid (PFNA)                            | <1.7   |           | 1.7 | ng/L |   | 05/27/25 04:15 | 05/28/25 09:56 | 1       |
| Perfluorodecanoic acid (PFDA)                            | <1.7   |           | 1.7 | ng/L |   | 05/27/25 04:15 | 05/28/25 09:56 | 1       |
| Perfluoroundecanoic acid (PFUnA)                         | <1.7   |           | 1.7 | ng/L |   | 05/27/25 04:15 | 05/28/25 09:56 | 1       |
| Perfluorododecanoic acid (PFDoA)                         | <1.7   |           | 1.7 | ng/L |   | 05/27/25 04:15 | 05/28/25 09:56 | 1       |
| Perfluorotridecanoic acid (PFTTrDA)                      | <1.7   |           | 1.7 | ng/L |   | 05/27/25 04:15 | 05/28/25 09:56 | 1       |
| Perfluorotetradecanoic acid (PFTeDA)                     | <1.7   |           | 1.7 | ng/L |   | 05/27/25 04:15 | 05/28/25 09:56 | 1       |
| Perfluorobutanesulfonic acid (PFBS)                      | <1.7   |           | 1.7 | ng/L |   | 05/27/25 04:15 | 05/28/25 09:56 | 1       |
| Perfluoropentanesulfonic acid (PFPeS)                    | <1.7   |           | 1.7 | ng/L |   | 05/27/25 04:15 | 05/28/25 09:56 | 1       |
| Perfluorohexanesulfonic acid (PFHxS)                     | <1.7   |           | 1.7 | ng/L |   | 05/27/25 04:15 | 05/28/25 09:56 | 1       |
| Perfluoroheptanesulfonic acid (PFHpS)                    | <1.7   |           | 1.7 | ng/L |   | 05/27/25 04:15 | 05/28/25 09:56 | 1       |
| Perfluorooctanesulfonic acid (PFOS)                      | <1.7   |           | 1.7 | ng/L |   | 05/27/25 04:15 | 05/28/25 09:56 | 1       |
| Perfluorononanesulfonic acid (PFNS)                      | <1.7   |           | 1.7 | ng/L |   | 05/27/25 04:15 | 05/28/25 09:56 | 1       |
| Perfluorodecanesulfonic acid (PFDS)                      | <1.7   |           | 1.7 | ng/L |   | 05/27/25 04:15 | 05/28/25 09:56 | 1       |
| Perfluorododecanesulfonic acid (PFDoS)                   | <1.7   |           | 1.7 | ng/L |   | 05/27/25 04:15 | 05/28/25 09:56 | 1       |
| 1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)      | <3.4   |           | 3.4 | ng/L |   | 05/27/25 04:15 | 05/28/25 09:56 | 1       |
| 1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)      | <3.4   |           | 3.4 | ng/L |   | 05/27/25 04:15 | 05/28/25 09:56 | 1       |
| 1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)      | <3.4   |           | 3.4 | ng/L |   | 05/27/25 04:15 | 05/28/25 09:56 | 1       |
| Perfluorooctanesulfonamide (PFOSA)                       | <1.7   |           | 1.7 | ng/L |   | 05/27/25 04:15 | 05/28/25 09:56 | 1       |
| N-methylperfluorooctane sulfonamide (NMeFOSA)            | <1.7   |           | 1.7 | ng/L |   | 05/27/25 04:15 | 05/28/25 09:56 | 1       |
| N-ethylperfluorooctane sulfonamide (NEtFOSA)             | <1.7   |           | 1.7 | ng/L |   | 05/27/25 04:15 | 05/28/25 09:56 | 1       |
| N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA) | <1.7   |           | 1.7 | ng/L |   | 05/27/25 04:15 | 05/28/25 09:56 | 1       |
| N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)  | <1.7   |           | 1.7 | ng/L |   | 05/27/25 04:15 | 05/28/25 09:56 | 1       |
| N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)     | <8.4   |           | 8.4 | ng/L |   | 05/27/25 04:15 | 05/28/25 09:56 | 1       |
| N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)      | <8.4   |           | 8.4 | ng/L |   | 05/27/25 04:15 | 05/28/25 09:56 | 1       |
| Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)           | <1.3   |           | 1.3 | ng/L |   | 05/27/25 04:15 | 05/28/25 09:56 | 1       |
| 4,8-Dioxa-3H-perfluorononanoic acid (ADONA)              | <1.7   |           | 1.7 | ng/L |   | 05/27/25 04:15 | 05/28/25 09:56 | 1       |
| Perfluoro-4-methoxybutanoic acid (PFMBA)                 | <1.7   |           | 1.7 | ng/L |   | 05/27/25 04:15 | 05/28/25 09:56 | 1       |
| Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)               | <1.7   |           | 1.7 | ng/L |   | 05/27/25 04:15 | 05/28/25 09:56 | 1       |
| Perfluoro-3-methoxypropanoic acid (PFMPA)                | <1.7   |           | 1.7 | ng/L |   | 05/27/25 04:15 | 05/28/25 09:56 | 1       |
| 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid       | <1.7   |           | 1.7 | ng/L |   | 05/27/25 04:15 | 05/28/25 09:56 | 1       |

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# Client Sample Results

Client: City & County of Honolulu  
Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-151902-1  
SDG: Site J

Client Sample ID: BWS2253-J1-AQ

Lab Sample ID: 380-151902-1

Date Collected: 05/21/25 12:30

Matrix: Drinking Water

Date Received: 05/22/25 10:30

## Method: DoD 6.0 QSM B-24 - PFAS for QSM 6.0, Table B-24 (Continued)

| Analyte                                                 | Result    | Qualifier | RL       | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------------------------------------------------------|-----------|-----------|----------|------|---|----------------|----------------|---------|
| 11-Chloroeicosafluoro-3-oxaundecan<br>e-1-sulfonic acid | <1.7      |           | 1.7      | ng/L |   | 05/27/25 04:15 | 05/28/25 09:56 | 1       |
| Perfluoro (2-ethoxyethane) sulfonic<br>acid (PFEEESA)   | <1.7      |           | 1.7      | ng/L |   | 05/27/25 04:15 | 05/28/25 09:56 | 1       |
| 3-Perfluoropropylpropanoic acid (3:3<br>FTCA)           | <3.4      |           | 3.4      | ng/L |   | 05/27/25 04:15 | 05/28/25 09:56 | 1       |
| 3-Perfluoropentylpropanoic acid (5:3<br>FTCA)           | <8.4      |           | 8.4      | ng/L |   | 05/27/25 04:15 | 05/28/25 09:56 | 1       |
| 3-Perfluoroheptylpropanoic acid (7:3<br>FTCA)           | <8.4      |           | 8.4      | ng/L |   | 05/27/25 04:15 | 05/28/25 09:56 | 1       |
| Isotope Dilution                                        | %Recovery | Qualifier | Limits   |      |   | Prepared       | Analyzed       | Dil Fac |
| 13C4 PFBA                                               | 101       |           | 5 - 130  |      |   | 05/27/25 04:15 | 05/28/25 09:56 | 1       |
| 13C5 PFPeA                                              | 92.3      |           | 40 - 130 |      |   | 05/27/25 04:15 | 05/28/25 09:56 | 1       |
| 13C5 PFHxA                                              | 93.2      |           | 40 - 130 |      |   | 05/27/25 04:15 | 05/28/25 09:56 | 1       |
| 13C4 PFHpA                                              | 88.1      |           | 40 - 130 |      |   | 05/27/25 04:15 | 05/28/25 09:56 | 1       |
| 13C8 PFOA                                               | 104       |           | 40 - 130 |      |   | 05/27/25 04:15 | 05/28/25 09:56 | 1       |
| 13C9 PFNA                                               | 92.5      |           | 40 - 130 |      |   | 05/27/25 04:15 | 05/28/25 09:56 | 1       |
| 13C6 PFDA                                               | 112       |           | 40 - 130 |      |   | 05/27/25 04:15 | 05/28/25 09:56 | 1       |
| 13C7 PFUnA                                              | 102       |           | 30 - 130 |      |   | 05/27/25 04:15 | 05/28/25 09:56 | 1       |
| 13C2 PFDoA                                              | 84.6      |           | 10 - 130 |      |   | 05/27/25 04:15 | 05/28/25 09:56 | 1       |
| 13C2 PFTeDA                                             | 72.2      |           | 10 - 130 |      |   | 05/27/25 04:15 | 05/28/25 09:56 | 1       |
| 13C3 PFBS                                               | 94.1      |           | 40 - 135 |      |   | 05/27/25 04:15 | 05/28/25 09:56 | 1       |
| 13C3 PFHxS                                              | 89.3      |           | 40 - 130 |      |   | 05/27/25 04:15 | 05/28/25 09:56 | 1       |
| 13C8 PFOS                                               | 85.8      |           | 40 - 130 |      |   | 05/27/25 04:15 | 05/28/25 09:56 | 1       |
| 13C8 PFOSA                                              | 82.1      |           | 40 - 130 |      |   | 05/27/25 04:15 | 05/28/25 09:56 | 1       |
| d3-NMeFOSAA                                             | 71.1      |           | 40 - 170 |      |   | 05/27/25 04:15 | 05/28/25 09:56 | 1       |
| d5-NEtFOSAA                                             | 74.2      |           | 25 - 135 |      |   | 05/27/25 04:15 | 05/28/25 09:56 | 1       |
| 13C2 4:2 FTS                                            | 95.8      |           | 40 - 200 |      |   | 05/27/25 04:15 | 05/28/25 09:56 | 1       |
| 13C2 6:2 FTS                                            | 91.1      |           | 40 - 200 |      |   | 05/27/25 04:15 | 05/28/25 09:56 | 1       |
| 13C2 8:2 FTS                                            | 95.7      |           | 40 - 300 |      |   | 05/27/25 04:15 | 05/28/25 09:56 | 1       |
| 13C3 HFPO-DA                                            | 89.8      |           | 40 - 130 |      |   | 05/27/25 04:15 | 05/28/25 09:56 | 1       |
| d7-N-MeFOSE-M                                           | 64.3      |           | 10 - 130 |      |   | 05/27/25 04:15 | 05/28/25 09:56 | 1       |
| d9-N-EtFOSE-M                                           | 59.8      |           | 10 - 130 |      |   | 05/27/25 04:15 | 05/28/25 09:56 | 1       |
| d5-NEtPFOSA                                             | 67.5      |           | 10 - 130 |      |   | 05/27/25 04:15 | 05/28/25 09:56 | 1       |
| d3-NMePFOSA                                             | 64.6      |           | 10 - 130 |      |   | 05/27/25 04:15 | 05/28/25 09:56 | 1       |

# Action Limit Summary

Client: City & County of Honolulu  
Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-151902-1  
SDG: Site J

Client Sample ID: BWS2253-J1-AQ

Lab Sample ID: 380-151902-1

## 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  |     |          |           |
| Perfluorooctanoic acid (PFOA)                  | <1.7   |           | ng/L | 4      | 1.7 | QSM B-24 | Total/NA  |
| Perfluorononanoic acid (PFNA)                  | <1.7   |           | ng/L | 10     | 1.7 | QSM B-24 | Total/NA  |
| Perfluorohexanesulfonic acid (PFHxS)           | <1.7   |           | ng/L | 10     | 1.7 | QSM B-24 | Total/NA  |
| Perfluorooctanesulfonic acid (PFOS)            | <1.7   |           | ng/L | 4      | 1.7 | QSM B-24 | Total/NA  |
| Hexafluoropropylene Oxide Dimer Acid (HFPO-DA) | <1.3   |           | ng/L | 10     | 1.3 | QSM B-24 | Total/NA  |

# Isotope Dilution Summary

Client: City & County of Honolulu  
Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-151902-1  
SDG: Site J

## Method: QSM B-24 - PFAS for QSM 6.0, Table B-24

Matrix: Drinking Water

Prep Type: Total/NA

|               |                  | Percent Isotope Dilution Recovery (Acceptance Limits) |                     |                     |                    |                    |                    |                     |                     |
|---------------|------------------|-------------------------------------------------------|---------------------|---------------------|--------------------|--------------------|--------------------|---------------------|---------------------|
| Lab Sample ID | Client Sample ID | PFBA<br>(5-130)                                       | PFPeA<br>(40-130)   | 13C5PHA<br>(40-130) | C4PFHA<br>(40-130) | C8PFOA<br>(40-130) | C9PFNA<br>(40-130) | C6PFDA<br>(40-130)  | 13C7PUA<br>(30-130) |
| 380-151902-1  | BWS2253-J1-AQ    | 101                                                   | 92.3                | 93.2                | 88.1               | 104                | 92.5               | 112                 | 102                 |
|               |                  | Percent Isotope Dilution Recovery (Acceptance Limits) |                     |                     |                    |                    |                    |                     |                     |
| Lab Sample ID | Client Sample ID | PFDaA<br>(10-130)                                     | PFTDA<br>(10-130)   | C3PFBS<br>(40-135)  | C3PFHS<br>(40-130) | C8PFOS<br>(40-130) | PFOSA<br>(40-130)  | d3NMFOS<br>(40-170) | d5NEFOS<br>(25-135) |
| 380-151902-1  | BWS2253-J1-AQ    | 84.6                                                  | 72.2                | 94.1                | 89.3               | 85.8               | 82.1               | 71.1                | 74.2                |
|               |                  | Percent Isotope Dilution Recovery (Acceptance Limits) |                     |                     |                    |                    |                    |                     |                     |
| Lab Sample ID | Client Sample ID | M242FTS<br>(40-200)                                   | M262FTS<br>(40-200) | M282FTS<br>(40-300) | HFPODA<br>(40-130) | NMFM<br>(10-130)   | NEFM<br>(10-130)   | d5NPFSA<br>(10-130) | d3NMFSA<br>(10-130) |
| 380-151902-1  | BWS2253-J1-AQ    | 95.8                                                  | 91.1                | 95.7                | 89.8               | 64.3               | 59.8               | 67.5                | 64.6                |

### Surrogate Legend

PFBA = 13C4 PFBA  
PFPeA = 13C5 PFPeA  
13C5PHA = 13C5 PFHxA  
C4PFHA = 13C4 PFHpA  
C8PFOA = 13C8 PFOA  
C9PFNA = 13C9 PFNA  
C6PFDA = 13C6 PFDA  
13C7PUA = 13C7 PFUnA  
PFDaA = 13C2 PFDaA  
PFTDA = 13C2 PFTeDA  
C3PFBS = 13C3 PFBS  
C3PFHS = 13C3 PFHxS  
C8PFOS = 13C8 PFOS  
PFOSA = 13C8 PFOSA  
d3NMFOS = d3-NMeFOSAA  
d5NEFOS = d5-NEtFOSAA  
M242FTS = 13C2 4:2 FTS  
M262FTS = 13C2 6:2 FTS  
M282FTS = 13C2 8:2 FTS  
HFPODA = 13C3 HFPO-DA  
NMFM = d7-N-MeFOSE-M  
NEFM = d9-N-EtFOSE-M  
d5NPFSA = d5-NEtPFOSA  
d3NMFSA = d3-NMePFOSA

## Method: QSM B-24 - PFAS for QSM 6.0, Table B-24

Matrix: Water

Prep Type: Total/NA

|                     |                        | Percent Isotope Dilution Recovery (Acceptance Limits) |                   |                     |                    |                    |                    |                     |                     |
|---------------------|------------------------|-------------------------------------------------------|-------------------|---------------------|--------------------|--------------------|--------------------|---------------------|---------------------|
| Lab Sample ID       | Client Sample ID       | PFBA<br>(5-130)                                       | PFPeA<br>(40-130) | 13C5PHA<br>(40-130) | C4PFHA<br>(40-130) | C8PFOA<br>(40-130) | C9PFNA<br>(40-130) | C6PFDA<br>(40-130)  | 13C7PUA<br>(30-130) |
| LCS 320-853957/3-A  | Lab Control Sample     | 104                                                   | 103               | 95.9                | 88.7               | 94.5               | 90.7               | 94.6                | 87.4                |
| LCSD 320-853957/4-A | Lab Control Sample Dup | 97.5                                                  | 105               | 104                 | 93.6               | 93.3               | 84.2               | 83.0                | 83.5                |
| LLCS 320-853957/2-A | Lab Control Sample     | 102                                                   | 101               | 90.2                | 99.0               | 106                | 97.3               | 107                 | 97.7                |
| MB 320-853957/1-A   | Method Blank           | 104                                                   | 102               | 102                 | 99.9               | 91.4               | 94.9               | 105                 | 101                 |
|                     |                        | Percent Isotope Dilution Recovery (Acceptance Limits) |                   |                     |                    |                    |                    |                     |                     |
| Lab Sample ID       | Client Sample ID       | PFDaA<br>(10-130)                                     | PFTDA<br>(10-130) | C3PFBS<br>(40-135)  | C3PFHS<br>(40-130) | C8PFOS<br>(40-130) | PFOSA<br>(40-130)  | d3NMFOS<br>(40-170) | d5NEFOS<br>(25-135) |
| LCS 320-853957/3-A  | Lab Control Sample     | 76.3                                                  | 60.6              | 86.7                | 81.0               | 73.1               | 75.9               | 70.3                | 65.6                |

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# Isotope Dilution Summary

Client: City & County of Honolulu  
Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-151902-1  
SDG: Site J

## Method: QSM B-24 - PFAS for QSM 6.0, Table B-24 (Continued)

Matrix: Water

Prep Type: Total/NA

### Percent Isotope Dilution Recovery (Acceptance Limits)

| Lab Sample ID       | Client Sample ID       | PFD <sub>o</sub> A<br>(10-130) | PFTDA<br>(10-130) | C3PFBS<br>(40-135) | C3PFHS<br>(40-130) | C8PFOS<br>(40-130) | PFOSA<br>(40-130) | d3NMFOS<br>(40-170) | d5NEFOS<br>(25-135) |
|---------------------|------------------------|--------------------------------|-------------------|--------------------|--------------------|--------------------|-------------------|---------------------|---------------------|
| LCSD 320-853957/4-A | Lab Control Sample Dup | 67.6                           | 53.3              | 84.2               | 78.0               | 72.0               | 71.3              | 66.9                | 63.2                |
| LLCS 320-853957/2-A | Lab Control Sample     | 80.6                           | 65.8              | 94.0               | 94.5               | 83.1               | 78.6              | 76.2                | 71.6                |
| MB 320-853957/1-A   | Method Blank           | 80.5                           | 67.1              | 92.3               | 90.9               | 85.8               | 83.5              | 78.0                | 72.1                |

### Percent Isotope Dilution Recovery (Acceptance Limits)

| Lab Sample ID       | Client Sample ID       | M242FTS<br>(40-200) | M262FTS<br>(40-200) | M282FTS<br>(40-300) | HFPODA<br>(40-130) | NMFM<br>(10-130) | NEFM<br>(10-130) | d5NPFSA<br>(10-130) | d3NMFSA<br>(10-130) |
|---------------------|------------------------|---------------------|---------------------|---------------------|--------------------|------------------|------------------|---------------------|---------------------|
| LCS 320-853957/3-A  | Lab Control Sample     | 99.9                | 88.9                | 86.2                | 88.9               | 59.2             | 55.4             | 66.3                | 61.7                |
| LCSD 320-853957/4-A | Lab Control Sample Dup | 95.3                | 88.6                | 80.3                | 109                | 60.1             | 54.0             | 58.3                | 53.1                |
| LLCS 320-853957/2-A | Lab Control Sample     | 94.9                | 95.0                | 96.8                | 95.5               | 63.8             | 60.3             | 63.7                | 60.1                |
| MB 320-853957/1-A   | Method Blank           | 95.6                | 90.2                | 94.8                | 96.7               | 69.2             | 63.5             | 67.1                | 61.3                |

### Surrogate Legend

PFBA = 13C4 PFBA  
PFPeA = 13C5 PFPeA  
13C5PHA = 13C5 PFHxA  
C4PFHA = 13C4 PFHpA  
C8PFOA = 13C8 PFOA  
C9PFNA = 13C9 PFNA  
C6PFDA = 13C6 PFDA  
13C7PUA = 13C7 PFUnA  
PFD<sub>o</sub>A = 13C2 PFD<sub>o</sub>A  
PFTDA = 13C2 PFTeDA  
C3PFBS = 13C3 PFBS  
C3PFHS = 13C3 PFHxS  
C8PFOS = 13C8 PFOS  
PFOSA = 13C8 PFOSA  
d3NMFOS = d3-NMeFOSAA  
d5NEFOS = d5-NEtFOSAA  
M242FTS = 13C2 4:2 FTS  
M262FTS = 13C2 6:2 FTS  
M282FTS = 13C2 8:2 FTS  
HFPODA = 13C3 HFPO-DA  
NMFM = d7-N-MeFOSE-M  
NEFM = d9-N-EtFOSE-M  
d5NPFSA = d5-NEtPFOSA  
d3NMFSA = d3-NMePFOSA

# QC Sample Results

Client: City & County of Honolulu  
Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-151902-1  
SDG: Site J

## Method: QSM B-24 - PFAS for QSM 6.0, Table B-24

Lab Sample ID: MB 320-853957/1-A

Matrix: Water

Analysis Batch: 854115

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 853957

| Analyte                                                  | MB Result | MB Qualifier | RL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------------------------------------------------------|-----------|--------------|-----|------|---|----------------|----------------|---------|
| Perfluorobutanoic acid (PFBA)                            | <4.0      |              | 4.0 | ng/L |   | 05/27/25 04:15 | 05/28/25 07:43 | 1       |
| Perfluoropentanoic acid (PFPeA)                          | <2.0      |              | 2.0 | ng/L |   | 05/27/25 04:15 | 05/28/25 07:43 | 1       |
| Perfluorohexanoic acid (PFHxA)                           | <2.0      |              | 2.0 | ng/L |   | 05/27/25 04:15 | 05/28/25 07:43 | 1       |
| Perfluoroheptanoic acid (PFHpA)                          | <2.0      |              | 2.0 | ng/L |   | 05/27/25 04:15 | 05/28/25 07:43 | 1       |
| Perfluorooctanoic acid (PFOA)                            | <2.0      |              | 2.0 | ng/L |   | 05/27/25 04:15 | 05/28/25 07:43 | 1       |
| Perfluorononanoic acid (PFNA)                            | <2.0      |              | 2.0 | ng/L |   | 05/27/25 04:15 | 05/28/25 07:43 | 1       |
| Perfluorodecanoic acid (PFDA)                            | <2.0      |              | 2.0 | ng/L |   | 05/27/25 04:15 | 05/28/25 07:43 | 1       |
| Perfluoroundecanoic acid (PFUnA)                         | <2.0      |              | 2.0 | ng/L |   | 05/27/25 04:15 | 05/28/25 07:43 | 1       |
| Perfluorododecanoic acid (PFDoA)                         | <2.0      |              | 2.0 | ng/L |   | 05/27/25 04:15 | 05/28/25 07:43 | 1       |
| Perfluorotridecanoic acid (PFTTrDA)                      | <2.0      |              | 2.0 | ng/L |   | 05/27/25 04:15 | 05/28/25 07:43 | 1       |
| Perfluorotetradecanoic acid (PFTeDA)                     | <2.0      |              | 2.0 | ng/L |   | 05/27/25 04:15 | 05/28/25 07:43 | 1       |
| Perfluorobutanesulfonic acid (PFBS)                      | <2.0      |              | 2.0 | ng/L |   | 05/27/25 04:15 | 05/28/25 07:43 | 1       |
| Perfluoropentanesulfonic acid (PFPeS)                    | <2.0      |              | 2.0 | ng/L |   | 05/27/25 04:15 | 05/28/25 07:43 | 1       |
| Perfluorohexanesulfonic acid (PFHxS)                     | <2.0      |              | 2.0 | ng/L |   | 05/27/25 04:15 | 05/28/25 07:43 | 1       |
| Perfluoroheptanesulfonic acid (PFHpS)                    | <2.0      |              | 2.0 | ng/L |   | 05/27/25 04:15 | 05/28/25 07:43 | 1       |
| Perfluorooctanesulfonic acid (PFOS)                      | <2.0      |              | 2.0 | ng/L |   | 05/27/25 04:15 | 05/28/25 07:43 | 1       |
| Perfluorononanesulfonic acid (PFNS)                      | <2.0      |              | 2.0 | ng/L |   | 05/27/25 04:15 | 05/28/25 07:43 | 1       |
| Perfluorodecanesulfonic acid (PFDS)                      | <2.0      |              | 2.0 | ng/L |   | 05/27/25 04:15 | 05/28/25 07:43 | 1       |
| Perfluorododecanesulfonic acid (PFDoS)                   | <2.0      |              | 2.0 | ng/L |   | 05/27/25 04:15 | 05/28/25 07:43 | 1       |
| 1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)      | <4.0      |              | 4.0 | ng/L |   | 05/27/25 04:15 | 05/28/25 07:43 | 1       |
| 1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)      | <4.0      |              | 4.0 | ng/L |   | 05/27/25 04:15 | 05/28/25 07:43 | 1       |
| 1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)      | <4.0      |              | 4.0 | ng/L |   | 05/27/25 04:15 | 05/28/25 07:43 | 1       |
| Perfluorooctanesulfonamide (PFOSA)                       | <2.0      |              | 2.0 | ng/L |   | 05/27/25 04:15 | 05/28/25 07:43 | 1       |
| N-methylperfluorooctane sulfonamide (NMeFOSA)            | <2.0      |              | 2.0 | ng/L |   | 05/27/25 04:15 | 05/28/25 07:43 | 1       |
| N-ethylperfluorooctane sulfonamide (NEtFOSA)             | <2.0      |              | 2.0 | ng/L |   | 05/27/25 04:15 | 05/28/25 07:43 | 1       |
| N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA) | <2.0      |              | 2.0 | ng/L |   | 05/27/25 04:15 | 05/28/25 07:43 | 1       |
| N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)  | <2.0      |              | 2.0 | ng/L |   | 05/27/25 04:15 | 05/28/25 07:43 | 1       |
| N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)     | <10       |              | 10  | ng/L |   | 05/27/25 04:15 | 05/28/25 07:43 | 1       |
| N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)      | <10       |              | 10  | ng/L |   | 05/27/25 04:15 | 05/28/25 07:43 | 1       |
| Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)           | <1.5      |              | 1.5 | ng/L |   | 05/27/25 04:15 | 05/28/25 07:43 | 1       |
| 4,8-Dioxa-3H-perfluorononanoic acid (ADONA)              | <2.0      |              | 2.0 | ng/L |   | 05/27/25 04:15 | 05/28/25 07:43 | 1       |
| Perfluoro-4-methoxybutanoic acid (PFMBA)                 | <2.0      |              | 2.0 | ng/L |   | 05/27/25 04:15 | 05/28/25 07:43 | 1       |
| Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)               | <2.0      |              | 2.0 | ng/L |   | 05/27/25 04:15 | 05/28/25 07:43 | 1       |
| Perfluoro-3-methoxypropanoic acid (PFMPA)                | <2.0      |              | 2.0 | ng/L |   | 05/27/25 04:15 | 05/28/25 07:43 | 1       |
| 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid       | <2.0      |              | 2.0 | ng/L |   | 05/27/25 04:15 | 05/28/25 07:43 | 1       |

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# QC Sample Results

Client: City & County of Honolulu  
Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-151902-1  
SDG: Site J

## Method: QSM B-24 - PFAS for QSM 6.0, Table B-24 (Continued)

Lab Sample ID: MB 320-853957/1-A

Matrix: Water

Analysis Batch: 854115

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 853957

| Analyte                                                 | MB Result | MB Qualifier | RL  | Unit | D | Prepared       | Analyzed       | Dil Fac |
|---------------------------------------------------------|-----------|--------------|-----|------|---|----------------|----------------|---------|
| 11-Chloroeicosafluoro-3-oxaundecan<br>e-1-sulfonic acid | <2.0      |              | 2.0 | ng/L |   | 05/27/25 04:15 | 05/28/25 07:43 | 1       |
| Perfluoro (2-ethoxyethane) sulfonic<br>acid (PFEEESA)   | <2.0      |              | 2.0 | ng/L |   | 05/27/25 04:15 | 05/28/25 07:43 | 1       |
| 3-Perfluoropropylpropanoic acid (3:3<br>FTCA)           | <4.0      |              | 4.0 | ng/L |   | 05/27/25 04:15 | 05/28/25 07:43 | 1       |
| 3-Perfluoropentylpropanoic acid (5:3<br>FTCA)           | <10       |              | 10  | ng/L |   | 05/27/25 04:15 | 05/28/25 07:43 | 1       |
| 3-Perfluoroheptylpropanoic acid (7:3<br>FTCA)           | <10       |              | 10  | ng/L |   | 05/27/25 04:15 | 05/28/25 07:43 | 1       |

| Isotope Dilution | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------|--------------|--------------|----------|----------------|----------------|---------|
| 13C4 PFBA        | 104          |              | 5 - 130  | 05/27/25 04:15 | 05/28/25 07:43 | 1       |
| 13C5 PFPeA       | 102          |              | 40 - 130 | 05/27/25 04:15 | 05/28/25 07:43 | 1       |
| 13C5 PFHxA       | 102          |              | 40 - 130 | 05/27/25 04:15 | 05/28/25 07:43 | 1       |
| 13C4 PFHpA       | 99.9         |              | 40 - 130 | 05/27/25 04:15 | 05/28/25 07:43 | 1       |
| 13C8 PFOA        | 91.4         |              | 40 - 130 | 05/27/25 04:15 | 05/28/25 07:43 | 1       |
| 13C9 PFNA        | 94.9         |              | 40 - 130 | 05/27/25 04:15 | 05/28/25 07:43 | 1       |
| 13C6 PFDA        | 105          |              | 40 - 130 | 05/27/25 04:15 | 05/28/25 07:43 | 1       |
| 13C7 PFUnA       | 101          |              | 30 - 130 | 05/27/25 04:15 | 05/28/25 07:43 | 1       |
| 13C2 PFDoA       | 80.5         |              | 10 - 130 | 05/27/25 04:15 | 05/28/25 07:43 | 1       |
| 13C2 PFTeDA      | 67.1         |              | 10 - 130 | 05/27/25 04:15 | 05/28/25 07:43 | 1       |
| 13C3 PFBS        | 92.3         |              | 40 - 135 | 05/27/25 04:15 | 05/28/25 07:43 | 1       |
| 13C3 PFHxS       | 90.9         |              | 40 - 130 | 05/27/25 04:15 | 05/28/25 07:43 | 1       |
| 13C8 PFOS        | 85.8         |              | 40 - 130 | 05/27/25 04:15 | 05/28/25 07:43 | 1       |
| 13C8 PFOSA       | 83.5         |              | 40 - 130 | 05/27/25 04:15 | 05/28/25 07:43 | 1       |
| d3-NMeFOSAA      | 78.0         |              | 40 - 170 | 05/27/25 04:15 | 05/28/25 07:43 | 1       |
| d5-NEtFOSAA      | 72.1         |              | 25 - 135 | 05/27/25 04:15 | 05/28/25 07:43 | 1       |
| 13C2 4:2 FTS     | 95.6         |              | 40 - 200 | 05/27/25 04:15 | 05/28/25 07:43 | 1       |
| 13C2 6:2 FTS     | 90.2         |              | 40 - 200 | 05/27/25 04:15 | 05/28/25 07:43 | 1       |
| 13C2 8:2 FTS     | 94.8         |              | 40 - 300 | 05/27/25 04:15 | 05/28/25 07:43 | 1       |
| 13C3 HFPO-DA     | 96.7         |              | 40 - 130 | 05/27/25 04:15 | 05/28/25 07:43 | 1       |
| d7-N-MeFOSE-M    | 69.2         |              | 10 - 130 | 05/27/25 04:15 | 05/28/25 07:43 | 1       |
| d9-N-EtFOSE-M    | 63.5         |              | 10 - 130 | 05/27/25 04:15 | 05/28/25 07:43 | 1       |
| d5-NEtPFOSA      | 67.1         |              | 10 - 130 | 05/27/25 04:15 | 05/28/25 07:43 | 1       |
| d3-NMePFOSA      | 61.3         |              | 10 - 130 | 05/27/25 04:15 | 05/28/25 07:43 | 1       |

Lab Sample ID: LCS 320-853957/3-A

Matrix: Water

Analysis Batch: 854115

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 853957

| Analyte                         | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------------------------------|-------------|------------|---------------|------|---|------|-------------|
| Perfluorobutanoic acid (PFBA)   | 80.0        | 69.7       |               | ng/L |   | 87   | 70 - 140    |
| Perfluoropentanoic acid (PFPeA) | 40.0        | 34.6       |               | ng/L |   | 87   | 65 - 135    |
| Perfluorohexanoic acid (PFHxA)  | 40.0        | 35.3       |               | ng/L |   | 88   | 70 - 145    |
| Perfluoroheptanoic acid (PFHpA) | 40.0        | 35.3       |               | ng/L |   | 88   | 70 - 150    |
| Perfluorooctanoic acid (PFOA)   | 40.0        | 38.0       |               | ng/L |   | 95   | 70 - 150    |
| Perfluorononanoic acid (PFNA)   | 40.0        | 35.2       |               | ng/L |   | 88   | 70 - 150    |
| Perfluorodecanoic acid (PFDA)   | 40.0        | 38.6       |               | ng/L |   | 96   | 70 - 140    |

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# QC Sample Results

Client: City & County of Honolulu  
Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-151902-1  
SDG: Site J

## Method: QSM B-24 - PFAS for QSM 6.0, Table B-24 (Continued)

Lab Sample ID: LCS 320-853957/3-A

Matrix: Water

Analysis Batch: 854115

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 853957

| Analyte                                                  | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------------------------------------------------------|-------------|------------|---------------|------|---|------|-------------|
| Perfluoroundecanoic acid (PFUnA)                         | 40.0        | 36.3       |               | ng/L |   | 91   | 70 - 145    |
| Perfluorododecanoic acid (PFDoA)                         | 40.0        | 40.7       |               | ng/L |   | 102  | 70 - 140    |
| Perfluorotridecanoic acid (PFTrDA)                       | 40.0        | 44.3       |               | ng/L |   | 111  | 65 - 140    |
| Perfluorotetradecanoic acid (PFTeDA)                     | 40.0        | 46.7       |               | ng/L |   | 117  | 60 - 140    |
| Perfluorobutanesulfonic acid (PFBS)                      | 35.5        | 31.1       |               | ng/L |   | 88   | 60 - 145    |
| Perfluoropentanesulfonic acid (PFPeS)                    | 37.6        | 36.2       |               | ng/L |   | 96   | 65 - 140    |
| Perfluorohexanesulfonic acid (PFHxS)                     | 36.5        | 34.6       |               | ng/L |   | 95   | 65 - 145    |
| Perfluoroheptanesulfonic acid (PFHpS)                    | 38.2        | 40.1       |               | ng/L |   | 105  | 70 - 150    |
| Perfluorooctanesulfonic acid (PFOS)                      | 37.2        | 36.1       |               | ng/L |   | 97   | 55 - 150    |
| Perfluorononanesulfonic acid (PFNS)                      | 38.5        | 37.3       |               | ng/L |   | 97   | 65 - 145    |
| Perfluorodecanesulfonic acid (PFDS)                      | 38.6        | 35.8       |               | ng/L |   | 93   | 60 - 145    |
| Perfluorododecanesulfonic acid (PFDoS)                   | 38.8        | 37.1       |               | ng/L |   | 96   | 50 - 145    |
| 1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)      | 75.0        | 66.4       |               | ng/L |   | 88   | 70 - 145    |
| 1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)      | 76.2        | 70.7       |               | ng/L |   | 93   | 65 - 155    |
| 1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)      | 76.8        | 66.6       |               | ng/L |   | 87   | 60 - 150    |
| Perfluorooctanesulfonamide (PFOSA)                       | 40.0        | 37.2       |               | ng/L |   | 93   | 70 - 145    |
| N-methylperfluorooctane sulfonamide (NMeFOSA)            | 40.0        | 43.9       |               | ng/L |   | 110  | 60 - 150    |
| N-ethylperfluorooctane sulfonamide (NEtFOSA)             | 40.0        | 39.9       |               | ng/L |   | 100  | 65 - 145    |
| N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA) | 40.0        | 37.7       |               | ng/L |   | 94   | 50 - 140    |
| N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)  | 40.0        | 42.9       |               | ng/L |   | 107  | 70 - 145    |
| N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)     | 200         | 210        |               | ng/L |   | 105  | 70 - 145    |
| N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)      | 200         | 209        |               | ng/L |   | 104  | 70 - 135    |
| Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)           | 30.0        | 26.6       |               | ng/L |   | 89   | 70 - 140    |
| 4,8-Dioxa-3H-perfluorononanoic acid (ADONA)              | 37.8        | 37.1       |               | ng/L |   | 98   | 65 - 145    |
| Perfluoro-4-methoxybutanoic acid (PFMBA)                 | 40.0        | 35.9       |               | ng/L |   | 90   | 60 - 150    |
| Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)               | 40.0        | 29.0       |               | ng/L |   | 73   | 50 - 150    |
| Perfluoro-3-methoxypropanoic acid (PFMPA)                | 40.0        | 32.3       |               | ng/L |   | 81   | 55 - 140    |
| 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid       | 37.4        | 32.6       |               | ng/L |   | 87   | 70 - 155    |

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# QC Sample Results

Client: City & County of Honolulu  
Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-151902-1  
SDG: Site J

## Method: QSM B-24 - PFAS for QSM 6.0, Table B-24 (Continued)

Lab Sample ID: LCS 320-853957/3-A

Matrix: Water

Analysis Batch: 854115

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 853957

| Analyte                                             | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|-----------------------------------------------------|-------------|------------|---------------|------|---|------|-------------|
| 11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid | 37.8        | 34.8       |               | ng/L |   | 92   | 55 - 160    |
| Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)  | 35.7        | 30.4       |               | ng/L |   | 85   | 70 - 140    |
| 3-Perfluoropropylpropanoic acid (3:3 FTCA)          | 80.0        | 73.0       |               | ng/L |   | 91   | 65 - 130    |
| 3-Perfluoropentylpropanoic acid (5:3 FTCA)          | 200         | 181        |               | ng/L |   | 90   | 70 - 135    |
| 3-Perfluoroheptylpropanoic acid (7:3 FTCA)          | 200         | 162        |               | ng/L |   | 81   | 50 - 145    |

| Isotope Dilution | LCS %Recovery | LCS Qualifier | Limits   |
|------------------|---------------|---------------|----------|
| 13C4 PFBA        | 104           |               | 5 - 130  |
| 13C5 PFPeA       | 103           |               | 40 - 130 |
| 13C5 PFHxA       | 95.9          |               | 40 - 130 |
| 13C4 PFHpA       | 88.7          |               | 40 - 130 |
| 13C8 PFOA        | 94.5          |               | 40 - 130 |
| 13C9 PFNA        | 90.7          |               | 40 - 130 |
| 13C6 PFDA        | 94.6          |               | 40 - 130 |
| 13C7 PFUnA       | 87.4          |               | 30 - 130 |
| 13C2 PFDoA       | 76.3          |               | 10 - 130 |
| 13C2 PFTeDA      | 60.6          |               | 10 - 130 |
| 13C3 PFBS        | 86.7          |               | 40 - 135 |
| 13C3 PFHxS       | 81.0          |               | 40 - 130 |
| 13C8 PFOS        | 73.1          |               | 40 - 130 |
| 13C8 PFOSA       | 75.9          |               | 40 - 130 |
| d3-NMeFOSAA      | 70.3          |               | 40 - 170 |
| d5-NEtFOSAA      | 65.6          |               | 25 - 135 |
| 13C2 4:2 FTS     | 99.9          |               | 40 - 200 |
| 13C2 6:2 FTS     | 88.9          |               | 40 - 200 |
| 13C2 8:2 FTS     | 86.2          |               | 40 - 300 |
| 13C3 HFPO-DA     | 88.9          |               | 40 - 130 |
| d7-N-MeFOSE-M    | 59.2          |               | 10 - 130 |
| d9-N-EtFOSE-M    | 55.4          |               | 10 - 130 |
| d5-NEtPFOSA      | 66.3          |               | 10 - 130 |
| d3-NMePFOSA      | 61.7          |               | 10 - 130 |

Lab Sample ID: LCSD 320-853957/4-A

Matrix: Water

Analysis Batch: 854115

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 853957

| Analyte                         | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------------------------------|-------------|-------------|----------------|------|---|------|-------------|-----|-----------|
| Perfluorobutanoic acid (PFBA)   | 80.0        | 73.0        |                | ng/L |   | 91   | 70 - 140    | 5   | 30        |
| Perfluoropentanoic acid (PFPeA) | 40.0        | 35.5        |                | ng/L |   | 89   | 65 - 135    | 3   | 30        |
| Perfluorohexanoic acid (PFHxA)  | 40.0        | 34.3        |                | ng/L |   | 86   | 70 - 145    | 3   | 30        |
| Perfluoroheptanoic acid (PFHpA) | 40.0        | 33.8        |                | ng/L |   | 85   | 70 - 150    | 4   | 30        |
| Perfluorooctanoic acid (PFOA)   | 40.0        | 35.5        |                | ng/L |   | 89   | 70 - 150    | 7   | 30        |
| Perfluorononanoic acid (PFNA)   | 40.0        | 35.8        |                | ng/L |   | 89   | 70 - 150    | 2   | 30        |
| Perfluorodecanoic acid (PFDA)   | 40.0        | 38.9        |                | ng/L |   | 97   | 70 - 140    | 1   | 30        |

Eurofins Eaton Analytical Pomona

# QC Sample Results

Client: City & County of Honolulu  
Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-151902-1  
SDG: Site J

## Method: QSM B-24 - PFAS for QSM 6.0, Table B-24 (Continued)

Lab Sample ID: LCSD 320-853957/4-A

Matrix: Water

Analysis Batch: 854115

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 853957

| Analyte                                                  | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|----------------------------------------------------------|-------------|-------------|----------------|------|---|------|-------------|-----|-----------|
| Perfluoroundecanoic acid (PFUnA)                         | 40.0        | 34.0        |                | ng/L |   | 85   | 70 - 145    | 7   | 30        |
| Perfluorododecanoic acid (PFDoA)                         | 40.0        | 42.4        |                | ng/L |   | 106  | 70 - 140    | 4   | 30        |
| Perfluorotridecanoic acid (PFTrDA)                       | 40.0        | 46.2        |                | ng/L |   | 115  | 65 - 140    | 4   | 30        |
| Perfluorotetradecanoic acid (PFTeDA)                     | 40.0        | 46.2        |                | ng/L |   | 116  | 60 - 140    | 1   | 30        |
| Perfluorobutanesulfonic acid (PFBS)                      | 35.5        | 33.3        |                | ng/L |   | 94   | 60 - 145    | 7   | 30        |
| Perfluoropentanesulfonic acid (PFPeS)                    | 37.6        | 38.2        |                | ng/L |   | 102  | 65 - 140    | 5   | 30        |
| Perfluorohexanesulfonic acid (PFHxS)                     | 36.5        | 34.5        |                | ng/L |   | 95   | 65 - 145    | 0   | 30        |
| Perfluoroheptanesulfonic acid (PFHpS)                    | 38.2        | 39.0        |                | ng/L |   | 102  | 70 - 150    | 3   | 30        |
| Perfluorooctanesulfonic acid (PFOS)                      | 37.2        | 38.2        |                | ng/L |   | 103  | 55 - 150    | 6   | 30        |
| Perfluorononanesulfonic acid (PFNS)                      | 38.5        | 35.4        |                | ng/L |   | 92   | 65 - 145    | 5   | 30        |
| Perfluorodecanesulfonic acid (PFDS)                      | 38.6        | 35.5        |                | ng/L |   | 92   | 60 - 145    | 1   | 30        |
| Perfluorododecanesulfonic acid (PFDoS)                   | 38.8        | 34.0        |                | ng/L |   | 88   | 50 - 145    | 9   | 30        |
| 1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)      | 75.0        | 70.7        |                | ng/L |   | 94   | 70 - 145    | 6   | 30        |
| 1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)      | 76.2        | 70.4        |                | ng/L |   | 92   | 65 - 155    | 0   | 30        |
| 1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)      | 76.8        | 73.1        |                | ng/L |   | 95   | 60 - 150    | 9   | 30        |
| Perfluorooctanesulfonamide (PFOSA)                       | 40.0        | 39.9        |                | ng/L |   | 100  | 70 - 145    | 7   | 30        |
| N-methylperfluorooctane sulfonamide (NMeFOSA)            | 40.0        | 44.6        |                | ng/L |   | 111  | 60 - 150    | 2   | 30        |
| N-ethylperfluorooctane sulfonamide (NEtFOSA)             | 40.0        | 41.7        |                | ng/L |   | 104  | 65 - 145    | 4   | 30        |
| N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA) | 40.0        | 37.4        |                | ng/L |   | 94   | 50 - 140    | 1   | 30        |
| N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)  | 40.0        | 44.1        |                | ng/L |   | 110  | 70 - 145    | 3   | 30        |
| N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)     | 200         | 210         |                | ng/L |   | 105  | 70 - 145    | 0   | 30        |
| N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)      | 200         | 201         |                | ng/L |   | 101  | 70 - 135    | 4   | 30        |
| Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)           | 30.0        | 24.6        |                | ng/L |   | 82   | 70 - 140    | 8   | 30        |
| 4,8-Dioxa-3H-perfluorononanoic acid (ADONA)              | 37.8        | 31.7        |                | ng/L |   | 84   | 65 - 145    | 16  | 30        |
| Perfluoro-4-methoxybutanoic acid (PFMBA)                 | 40.0        | 34.6        |                | ng/L |   | 87   | 60 - 150    | 4   | 30        |
| Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)               | 40.0        | 29.3        |                | ng/L |   | 73   | 50 - 150    | 1   | 30        |
| Perfluoro-3-methoxypropanoic acid (PFMPA)                | 40.0        | 34.0        |                | ng/L |   | 85   | 55 - 140    | 5   | 30        |
| 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid       | 37.4        | 29.6        |                | ng/L |   | 79   | 70 - 155    | 9   | 30        |

Eurofins Eaton Analytical Pomona

# QC Sample Results

Client: City & County of Honolulu  
Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-151902-1  
SDG: Site J

## Method: QSM B-24 - PFAS for QSM 6.0, Table B-24 (Continued)

Lab Sample ID: LCSD 320-853957/4-A

Matrix: Water

Analysis Batch: 854115

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 853957

| Analyte                                             | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|-----------------------------------------------------|-------------|-------------|----------------|------|---|------|-------------|-----|-----------|
| 11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid | 37.8        | 30.0        |                | ng/L |   | 79   | 55 - 160    | 15  | 30        |
| Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)  | 35.7        | 28.4        |                | ng/L |   | 80   | 70 - 140    | 7   | 30        |
| 3-Perfluoropropylpropanoic acid (3:3 FTCA)          | 80.0        | 74.8        |                | ng/L |   | 94   | 65 - 130    | 2   | 30        |
| 3-Perfluoropentylpropanoic acid (5:3 FTCA)          | 200         | 183         |                | ng/L |   | 91   | 70 - 135    | 1   | 30        |
| 3-Perfluoroheptylpropanoic acid (7:3 FTCA)          | 200         | 152         |                | ng/L |   | 76   | 50 - 145    | 6   | 30        |

| Isotope Dilution | LCSD %Recovery | LCSD Qualifier | Limits   |
|------------------|----------------|----------------|----------|
| 13C4 PFBA        | 97.5           |                | 5 - 130  |
| 13C5 PFPeA       | 105            |                | 40 - 130 |
| 13C5 PFHxA       | 104            |                | 40 - 130 |
| 13C4 PFHpA       | 93.6           |                | 40 - 130 |
| 13C8 PFOA        | 93.3           |                | 40 - 130 |
| 13C9 PFNA        | 84.2           |                | 40 - 130 |
| 13C6 PFDA        | 83.0           |                | 40 - 130 |
| 13C7 PFUnA       | 83.5           |                | 30 - 130 |
| 13C2 PFDoA       | 67.6           |                | 10 - 130 |
| 13C2 PFTeDA      | 53.3           |                | 10 - 130 |
| 13C3 PFBS        | 84.2           |                | 40 - 135 |
| 13C3 PFHxS       | 78.0           |                | 40 - 130 |
| 13C8 PFOS        | 72.0           |                | 40 - 130 |
| 13C8 PFOSA       | 71.3           |                | 40 - 130 |
| d3-NMeFOSAA      | 66.9           |                | 40 - 170 |
| d5-NEtFOSAA      | 63.2           |                | 25 - 135 |
| 13C2 4:2 FTS     | 95.3           |                | 40 - 200 |
| 13C2 6:2 FTS     | 88.6           |                | 40 - 200 |
| 13C2 8:2 FTS     | 80.3           |                | 40 - 300 |
| 13C3 HFPO-DA     | 109            |                | 40 - 130 |
| d7-N-MeFOSE-M    | 60.1           |                | 10 - 130 |
| d9-N-EtFOSE-M    | 54.0           |                | 10 - 130 |
| d5-NEtPFOSA      | 58.3           |                | 10 - 130 |
| d3-NMePFOSA      | 53.1           |                | 10 - 130 |

Lab Sample ID: LLCS 320-853957/2-A

Matrix: Water

Analysis Batch: 854115

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 853957

| Analyte                         | Spike Added | LLCS Result | LLCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------------------------------|-------------|-------------|----------------|------|---|------|-------------|
| Perfluorobutanoic acid (PFBA)   | 8.00        | 7.31        |                | ng/L |   | 91   | 70 - 140    |
| Perfluoropentanoic acid (PFPeA) | 4.00        | 3.90        |                | ng/L |   | 97   | 65 - 135    |
| Perfluorohexanoic acid (PFHxA)  | 4.00        | 4.77        |                | ng/L |   | 119  | 70 - 145    |
| Perfluoroheptanoic acid (PFHpA) | 4.00        | 3.66        |                | ng/L |   | 92   | 70 - 150    |
| Perfluorooctanoic acid (PFOA)   | 4.00        | 3.53        |                | ng/L |   | 88   | 70 - 150    |
| Perfluorononanoic acid (PFNA)   | 4.00        | 3.89        |                | ng/L |   | 97   | 70 - 150    |
| Perfluorodecanoic acid (PFDA)   | 4.00        | 3.51        |                | ng/L |   | 88   | 70 - 140    |

Eurofins Eaton Analytical Pomona

# QC Sample Results

Client: City & County of Honolulu  
Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-151902-1  
SDG: Site J

## Method: QSM B-24 - PFAS for QSM 6.0, Table B-24 (Continued)

Lab Sample ID: LLCS 320-853957/2-A

Matrix: Water

Analysis Batch: 854115

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 853957

| Analyte                                                  | Spike Added | LLCS Result | LLCS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------------------------------------------------------|-------------|-------------|----------------|------|---|------|-------------|
| Perfluoroundecanoic acid (PFUnA)                         | 4.00        | 3.32        |                | ng/L |   | 83   | 70 - 145    |
| Perfluorododecanoic acid (PFDoA)                         | 4.00        | 4.13        |                | ng/L |   | 103  | 70 - 140    |
| Perfluorotridecanoic acid (PFTrDA)                       | 4.00        | 4.31        |                | ng/L |   | 108  | 65 - 140    |
| Perfluorotetradecanoic acid (PFTeDA)                     | 4.00        | 4.50        |                | ng/L |   | 112  | 60 - 140    |
| Perfluorobutanesulfonic acid (PFBS)                      | 3.55        | 3.49        |                | ng/L |   | 98   | 60 - 145    |
| Perfluoropentanesulfonic acid (PFPeS)                    | 3.76        | 3.47        |                | ng/L |   | 92   | 65 - 140    |
| Perfluorohexanesulfonic acid (PFHxS)                     | 3.65        | 3.60        |                | ng/L |   | 99   | 65 - 145    |
| Perfluoroheptanesulfonic acid (PFHpS)                    | 3.82        | 3.95        |                | ng/L |   | 104  | 70 - 150    |
| Perfluorooctanesulfonic acid (PFOS)                      | 3.72        | 3.78        |                | ng/L |   | 102  | 55 - 150    |
| Perfluorononanesulfonic acid (PFNS)                      | 3.85        | 3.57        |                | ng/L |   | 93   | 65 - 145    |
| Perfluorodecanesulfonic acid (PFDS)                      | 3.86        | 3.54        |                | ng/L |   | 92   | 60 - 145    |
| Perfluorododecanesulfonic acid (PFDoS)                   | 3.88        | 3.40        |                | ng/L |   | 88   | 50 - 145    |
| 1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)      | 7.50        | 7.43        |                | ng/L |   | 99   | 70 - 145    |
| 1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)      | 7.62        | 6.71        |                | ng/L |   | 88   | 65 - 155    |
| 1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)      | 7.68        | 7.37        |                | ng/L |   | 96   | 60 - 150    |
| Perfluorooctanesulfonamide (PFOSA)                       | 4.00        | 3.93        |                | ng/L |   | 98   | 70 - 145    |
| N-methylperfluorooctane sulfonamide (NMeFOSA)            | 4.00        | 4.15        |                | ng/L |   | 104  | 60 - 150    |
| N-ethylperfluorooctane sulfonamide (NEtFOSA)             | 4.00        | 3.91        |                | ng/L |   | 98   | 65 - 145    |
| N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA) | 4.00        | 3.65        |                | ng/L |   | 91   | 50 - 140    |
| N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)  | 4.00        | 4.29        |                | ng/L |   | 107  | 70 - 145    |
| N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)     | 20.0        | 20.2        |                | ng/L |   | 101  | 70 - 145    |
| N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)      | 20.0        | 19.5        |                | ng/L |   | 98   | 70 - 135    |
| Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)           | 3.00        | 3.11        |                | ng/L |   | 104  | 70 - 140    |
| 4,8-Dioxa-3H-perfluorononanoic acid (ADONA)              | 3.78        | 3.67        |                | ng/L |   | 97   | 65 - 145    |
| Perfluoro-4-methoxybutanoic acid (PFMBA)                 | 4.00        | 3.73        |                | ng/L |   | 93   | 60 - 150    |
| Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)               | 4.00        | 3.70        |                | ng/L |   | 92   | 50 - 150    |
| Perfluoro-3-methoxypropanoic acid (PFMPA)                | 4.00        | 3.66        |                | ng/L |   | 91   | 55 - 140    |
| 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid       | 3.74        | 3.76        |                | ng/L |   | 101  | 70 - 155    |

Eurofins Eaton Analytical Pomona

# QC Sample Results

Client: City & County of Honolulu  
Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-151902-1  
SDG: Site J

## Method: QSM B-24 - PFAS for QSM 6.0, Table B-24 (Continued)

Lab Sample ID: LLCS 320-853957/2-A

Matrix: Water

Analysis Batch: 854115

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 853957

| Analyte                                             | Spike Added | LLCS Result | LLCS Qualifier | Unit | D | %Rec | %Rec Limits |
|-----------------------------------------------------|-------------|-------------|----------------|------|---|------|-------------|
| 11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid | 3.78        | 3.70        |                | ng/L |   | 98   | 55 - 160    |
| Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)  | 3.57        | 3.70        |                | ng/L |   | 104  | 70 - 140    |
| 3-Perfluoropropylpropanoic acid (3:3 FTCA)          | 8.00        | 7.71        |                | ng/L |   | 96   | 65 - 130    |
| 3-Perfluoropentylpropanoic acid (5:3 FTCA)          | 20.0        | 20.5        |                | ng/L |   | 103  | 70 - 135    |
| 3-Perfluoroheptylpropanoic acid (7:3 FTCA)          | 20.0        | 19.4        |                | ng/L |   | 97   | 50 - 145    |

| Isotope Dilution | LLCS %Recovery | LLCS Qualifier | LLCS Limits |
|------------------|----------------|----------------|-------------|
| 13C4 PFBA        | 102            |                | 5 - 130     |
| 13C5 PFPeA       | 101            |                | 40 - 130    |
| 13C5 PFHxA       | 90.2           |                | 40 - 130    |
| 13C4 PFHpA       | 99.0           |                | 40 - 130    |
| 13C8 PFOA        | 106            |                | 40 - 130    |
| 13C9 PFNA        | 97.3           |                | 40 - 130    |
| 13C6 PFDA        | 107            |                | 40 - 130    |
| 13C7 PFUnA       | 97.7           |                | 30 - 130    |
| 13C2 PFDoA       | 80.6           |                | 10 - 130    |
| 13C2 PFTeDA      | 65.8           |                | 10 - 130    |
| 13C3 PFBS        | 94.0           |                | 40 - 135    |
| 13C3 PFHxS       | 94.5           |                | 40 - 130    |
| 13C8 PFOS        | 83.1           |                | 40 - 130    |
| 13C8 PFOSA       | 78.6           |                | 40 - 130    |
| d3-NMeFOSAA      | 76.2           |                | 40 - 170    |
| d5-NEtFOSAA      | 71.6           |                | 25 - 135    |
| 13C2 4:2 FTS     | 94.9           |                | 40 - 200    |
| 13C2 6:2 FTS     | 95.0           |                | 40 - 200    |
| 13C2 8:2 FTS     | 96.8           |                | 40 - 300    |
| 13C3 HFPO-DA     | 95.5           |                | 40 - 130    |
| d7-N-MeFOSE-M    | 63.8           |                | 10 - 130    |
| d9-N-EtFOSE-M    | 60.3           |                | 10 - 130    |
| d5-NEtPFOSA      | 63.7           |                | 10 - 130    |
| d3-NMePFOSA      | 60.1           |                | 10 - 130    |

## QC Association Summary

Client: City & County of Honolulu  
Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-151902-1  
SDG: Site J

### LCMS

#### Prep Batch: 853957

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix         | Method | Prep Batch |
|---------------------|------------------------|-----------|----------------|--------|------------|
| 380-151902-1        | BWS2253-J1-AQ          | Total/NA  | Drinking Water | 1633   |            |
| MB 320-853957/1-A   | Method Blank           | Total/NA  | Water          | 1633   |            |
| LCS 320-853957/3-A  | Lab Control Sample     | Total/NA  | Water          | 1633   |            |
| LCSD 320-853957/4-A | Lab Control Sample Dup | Total/NA  | Water          | 1633   |            |
| LLCS 320-853957/2-A | Lab Control Sample     | Total/NA  | Water          | 1633   |            |

#### Analysis Batch: 854115

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix         | Method   | Prep Batch |
|---------------------|------------------------|-----------|----------------|----------|------------|
| 380-151902-1        | BWS2253-J1-AQ          | Total/NA  | Drinking Water | QSM B-24 | 853957     |
| MB 320-853957/1-A   | Method Blank           | Total/NA  | Water          | QSM B-24 | 853957     |
| LCS 320-853957/3-A  | Lab Control Sample     | Total/NA  | Water          | QSM B-24 | 853957     |
| LCSD 320-853957/4-A | Lab Control Sample Dup | Total/NA  | Water          | QSM B-24 | 853957     |
| LLCS 320-853957/2-A | Lab Control Sample     | Total/NA  | Water          | QSM B-24 | 853957     |

# Lab Chronicle

Client: City & County of Honolulu  
Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-151902-1  
SDG: Site J

Client Sample ID: BWS2253-J1-AQ  
Date Collected: 05/21/25 12:30  
Date Received: 05/22/25 10:30

Lab Sample ID: 380-151902-1  
Matrix: Drinking Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab     | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA  | Prep       | 1633         |     |                 | 853957       | RMF     | EET SAC | 05/27/25 04:15       |
| Total/NA  | Analysis   | QSM B-24     |     | 1               | 854115       | N1K     | EET SAC | 05/28/25 09:56       |

Laboratory References:  
EET SAC = Eurofins Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

# Accreditation/Certification Summary

Client: City & County of Honolulu  
Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-151902-1  
SDG: Site J

## Laboratory: Eurofins Sacramento

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

| Authority          | Program               | Identification Number | Expiration Date |
|--------------------|-----------------------|-----------------------|-----------------|
| Alaska (UST)       | State                 | 17-020                | 02-20-27        |
| ANAB               | Dept. of Defense ELAP | L2468                 | 05-29-25        |
| ANAB               | Dept. of Energy       | L2468.01              | 05-29-25        |
| ANAB               | ISO/IEC 17025         | L2468                 | 01-20-27        |
| Arizona            | State                 | AZ0708                | 08-11-25        |
| Arkansas DEQ       | State                 | 88-0691               | 05-18-26        |
| California         | State                 | 2897                  | 01-31-26        |
| Colorado           | State                 | CA00044               | 08-31-25        |
| Florida            | NELAP                 | E87570                | 06-30-25        |
| Georgia            | State                 | 4040                  | 01-29-26        |
| Illinois           | NELAP                 | 200060                | 03-31-26        |
| Kansas             | NELAP                 | E-10375               | 10-31-25        |
| Louisiana          | NELAP                 | 01944                 | 06-30-25        |
| Louisiana (All)    | NELAP                 | 01944                 | 06-30-25        |
| Maine              | State                 | CA00004               | 04-14-26        |
| Minnesota          | NELAP                 | 2749448               | 12-31-25        |
| Nevada             | State                 | CA00044               | 07-31-25        |
| New Jersey         | NELAP                 | CA005                 | 06-30-25        |
| New York           | NELAP                 | 11666                 | 04-01-26        |
| Ohio               | State                 | 41252                 | 01-29-26        |
| Oregon             | NELAP                 | 4040                  | 05-28-25        |
| Texas              | NELAP                 | T104704399-23-17      | 05-31-25        |
| US Fish & Wildlife | US Federal Programs   | A22139                | 04-30-26        |
| USDA               | US Federal Programs   | P330-18-00239         | 02-28-26        |
| Utah               | NELAP                 | CA000442023-16        | 02-28-26        |
| Virginia           | NELAP                 | 460278                | 03-14-26        |
| Washington         | State                 | C581                  | 05-06-26        |
| West Virginia (DW) | State                 | 9930C                 | 02-01-26        |
| West Virginia DEP  | State                 | 422                   | 03-28-26        |
| Wisconsin          | State                 | 998204680             | 08-31-25        |
| Wyoming            | State Program         | 8TMS-L                | 01-28-19 *      |

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

Eurofins Eaton Analytical Pomona

# Method Summary

Client: City & County of Honolulu  
Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-151902-1  
SDG: Site J

| Method   | Method Description           | Protocol | Laboratory |
|----------|------------------------------|----------|------------|
| QSM B-24 | PFAS for QSM 6.0, Table B-24 | DoD 6.0  | EET SAC    |
| 1633     | Solid-Phase Extraction (SPE) | EPA      | EET SAC    |

**Protocol References:**

DoD 6.0 = Department of Defense Quality Systems Manual V6.0  
EPA = US Environmental Protection Agency

**Laboratory References:**

EET SAC = Eurofins Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Sample Summary

Client: City & County of Honolulu  
Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-151902-1  
SDG: Site J

| Lab Sample ID | Client Sample ID | Matrix         | Collected      | Received       |
|---------------|------------------|----------------|----------------|----------------|
| 380-151902-1  | BWS2253-J1-AQ    | Drinking Water | 05/21/25 12:30 | 05/22/25 10:30 |

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

6/4/2025

Environment Testing  
America

Ver 01/16/2019

## Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-151902-1

SDG Number: Site J

**Login Number: 151902**

**List Source: Eurofins Eaton Analytical Pomona**

**List Number: 1**

**Creator: Edrosa, Rey**

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

## Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-151902-1

SDG Number: Site J

**Login Number: 151902**

**List Number: 2**

**Creator: Morazzini, Dominic S**

**List Source: Eurofins Sacramento**

**List Creation: 05/22/25 05:27 PM**

| Question                                                                                 | Answer | Comment                      |
|------------------------------------------------------------------------------------------|--------|------------------------------|
| Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.      | True   |                              |
| The cooler's custody seal, if present, is intact.                                        | True   | Seal present with no number. |
| Sample custody seals, if present, are intact.                                            | N/A    |                              |
| The cooler or samples do not appear to have been compromised or tampered with.           | True   |                              |
| Samples were received on ice.                                                            | True   |                              |
| Cooler Temperature is acceptable.                                                        | True   |                              |
| Cooler Temperature is recorded.                                                          | True   | 0.6                          |
| COC is present.                                                                          | True   |                              |
| COC is filled out in ink and legible.                                                    | True   |                              |
| COC is filled out with all pertinent information.                                        | True   |                              |
| Is the Field Sampler's name present on COC?                                              | 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   |                              |
| Appropriate sample containers are used.                                                  | True   |                              |
| Sample bottles are completely filled.                                                    | True   |                              |
| Sample Preservation Verified.                                                            | N/A    |                              |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs         | True   |                              |
| Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4"). | True   |                              |
| Multiphasic samples are not present.                                                     | True   |                              |
| Samples do not require splitting or compositing.                                         | True   |                              |
| Residual Chlorine Checked.                                                               | N/A    |                              |