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ANALYTICAL REPORT

PREPARED FOR

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

Generated 2/26/2025 9:34:12 AM

JOB DESCRIPTION

RED-HILL
Weekly PFAS

JOB NUMBER

380-136990-1

Eurofins Eaton Analytical Pomona

Job Notes

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

Compliance Statement

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

Authorization



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Authorized for release by
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Definitions/Glossary

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

Job ID: 380-136990-1
SDG: Weekly PFAS

Qualifiers

LCMS

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

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: 380-136990-1

Job ID: 380-136990-1

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Job Narrative 380-136990-1

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

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

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

Receipt

The samples were received on 2/21/2025 9:34 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 0.5°C and 0.9°C.

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: 380-136990-1
SDG: Weekly PFAS

Client Sample ID: HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP065)

Lab Sample ID: 380-136990-1

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanesulfonic acid (PFHxS)	2.6		2.0	ng/L	1		533	Total/NA
Perfluorohexanoic acid (PFHxA)	2.2		2.0	ng/L	1		533	Total/NA
Perfluorooctanesulfonic acid (PFOS)	2.4		2.0	ng/L	1		533	Total/NA
Perfluoropentanoic acid (PFPeA)	2.6		2.0	ng/L	1		533	Total/NA
Perfluorooctanesulfonic acid (PFOS)	2.3		2.0	ng/L	1		537.1	Total/NA
Perfluorohexanoic acid (PFHxA)	2.3		2.0	ng/L	1		537.1	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	2.6		2.0	ng/L	1		537.1	Total/NA

Client Sample ID: AIEA GULCH WELLS PUMP 2 (331-202-TP072)

Lab Sample ID: 380-136990-2

No Detections.

Client Sample ID: AIEA WELLS PUMPS 1&2 P2 (260) (331-203-TP400)

Lab Sample ID: 380-136990-3

No Detections.

Client Sample ID: KA'AMILO WELLS

Lab Sample ID: 380-136990-4

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanesulfonic acid (PFHxS)	2.3		2.0	ng/L	1		533	Total/NA
Perfluorooctanesulfonic acid (PFOS)	2.8		2.0	ng/L	1		533	Total/NA
Perfluorooctanesulfonic acid (PFOS)	2.5		2.0	ng/L	1		537.1	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	2.4		2.0	ng/L	1		537.1	Total/NA

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

Lab Sample ID: 380-136990-5

No Detections.

Client Sample ID: FB AIEA GULCH WELLS PUMP 2 (331-202-TP072)

Lab Sample ID: 380-136990-6

No Detections.

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

Lab Sample ID: 380-136990-7

No Detections.

Client Sample ID: FB KA'AMILO WELLS

Lab Sample ID: 380-136990-8

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: 380-136990-1
SDG: Weekly PFAS

**Client Sample ID: HALAWA WELLS UNITS 1 & 2 P1
(331-206-TP065)**

Lab Sample ID: 380-136990-1

Date Collected: 02/18/25 10:10

Matrix: Drinking Water

Date Received: 02/21/25 09:34

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosafuoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 09:43	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 09:43	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 09:43	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 09:43	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 09:43	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 09:43	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 09:43	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 09:43	1
Perfluorohexanesulfonic acid (PFHxS)	2.6		2.0	ng/L		02/22/25 20:56	02/25/25 09:43	1
Perfluorohexanoic acid (PFHxA)	2.2		2.0	ng/L		02/22/25 20:56	02/25/25 09:43	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 09:43	1
Perfluorooctanesulfonic acid (PFOS)	2.4		2.0	ng/L		02/22/25 20:56	02/25/25 09:43	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 09:43	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 09:43	1
Perfluorobutanoic acid (PFBA)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 09:43	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 09:43	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 09:43	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 09:43	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 09:43	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 09:43	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 09:43	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 09:43	1
Perfluoropentanoic acid (PFPeA)	2.6		2.0	ng/L		02/22/25 20:56	02/25/25 09:43	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 09:43	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 09:43	1
Isotope Dilution	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	90		50 - 200			02/22/25 20:56	02/25/25 09:43	1
13C6 PFDA	94		50 - 200			02/22/25 20:56	02/25/25 09:43	1
13C5 PFHxA	95		50 - 200			02/22/25 20:56	02/25/25 09:43	1
13C4 PFHpA	99		50 - 200			02/22/25 20:56	02/25/25 09:43	1
13C8 PFOA	96		50 - 200			02/22/25 20:56	02/25/25 09:43	1
13C9 PFNA	97		50 - 200			02/22/25 20:56	02/25/25 09:43	1
13C7 PFUnA	89		50 - 200			02/22/25 20:56	02/25/25 09:43	1
13C2 PFDoA	91		50 - 200			02/22/25 20:56	02/25/25 09:43	1
13C4 PFBA	98		50 - 200			02/22/25 20:56	02/25/25 09:43	1
13C5 PFPeA	99		50 - 200			02/22/25 20:56	02/25/25 09:43	1
13C3 PFBS	96		50 - 200			02/22/25 20:56	02/25/25 09:43	1

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Client Sample Results

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

Job ID: 380-136990-1
SDG: Weekly PFAS

**Client Sample ID: HALAWA WELLS UNITS 1 & 2 P1
(331-206-TP065)**

Lab Sample ID: 380-136990-1

Date Collected: 02/18/25 10:10

Matrix: Drinking Water

Date Received: 02/21/25 09:34

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 PFHxS	94		50 - 200	02/22/25 20:56	02/25/25 09:43	1
13C8 PFOS	98		50 - 200	02/22/25 20:56	02/25/25 09:43	1
13C2-4:2-FTS	121		50 - 200	02/22/25 20:56	02/25/25 09:43	1
13C2-6:2-FTS	109		50 - 200	02/22/25 20:56	02/25/25 09:43	1
13C2-8:2-FTS	101		50 - 200	02/22/25 20:56	02/25/25 09:43	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		02/23/25 15:21	02/24/25 14:36	1
Perfluorooctanesulfonic acid (PFOS)	2.3		2.0	ng/L		02/23/25 15:21	02/24/25 14:36	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		02/23/25 15:21	02/24/25 14:36	1
N-methylperfluorooctanesulfonamideacetic acid (NMeFOSAA)	<2.0		2.0	ng/L		02/23/25 15:21	02/24/25 14:36	1
N-ethylperfluorooctanesulfonamideacetic acid (NEtFOSAA)	<2.0		2.0	ng/L		02/23/25 15:21	02/24/25 14:36	1
Perfluorohexanoic acid (PFHxA)	2.3		2.0	ng/L		02/23/25 15:21	02/24/25 14:36	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		02/23/25 15:21	02/24/25 14:36	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		02/23/25 15:21	02/24/25 14:36	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		02/23/25 15:21	02/24/25 14:36	1
Perfluorohexanesulfonic acid (PFHxS)	2.6		2.0	ng/L		02/23/25 15:21	02/24/25 14:36	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		02/23/25 15:21	02/24/25 14:36	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		02/23/25 15:21	02/24/25 14:36	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		02/23/25 15:21	02/24/25 14:36	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0	ng/L		02/23/25 15:21	02/24/25 14:36	1
Perfluorotridecanoic acid (PFTrDA)	<2.0		2.0	ng/L		02/23/25 15:21	02/24/25 14:36	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		02/23/25 15:21	02/24/25 14:36	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		02/23/25 15:21	02/24/25 14:36	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		02/23/25 15:21	02/24/25 14:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	102		70 - 130	02/23/25 15:21	02/24/25 14:36	1
13C2 PFHxA	100		70 - 130	02/23/25 15:21	02/24/25 14:36	1
13C2 PFDA	96		70 - 130	02/23/25 15:21	02/24/25 14:36	1
13C3-GenX	101		70 - 130	02/23/25 15:21	02/24/25 14:36	1

**Client Sample ID: AIEA GULCH WELLS PUMP 2
(331-202-TP072)**

Lab Sample ID: 380-136990-2

Date Collected: 02/18/25 10:36

Matrix: Drinking Water

Date Received: 02/21/25 09:34

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 09:53	1

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Client Sample Results

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

Job ID: 380-136990-1
SDG: Weekly PFAS

**Client Sample ID: AIEA GULCH WELLS PUMP 2
(331-202-TP072)**

Lab Sample ID: 380-136990-2

Date Collected: 02/18/25 10:36

Matrix: Drinking Water

Date Received: 02/21/25 09:34

Method: EPA 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water (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		02/22/25 20:56	02/25/25 09:53	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 09:53	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 09:53	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 09:53	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 09:53	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 09:53	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 09:53	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 09:53	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 09:53	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 09:53	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 09:53	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 09:53	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 09:53	1
Perfluorobutanoic acid (PFBA)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 09:53	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 09:53	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 09:53	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6 2 FTS)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 09:53	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 09:53	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 09:53	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 09:53	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 09:53	1
Perfluoropentanoic acid (PFPeA)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 09:53	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 09:53	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 09:53	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	83		50 - 200	02/22/25 20:56	02/25/25 09:53	1
13C6 PFDA	89		50 - 200	02/22/25 20:56	02/25/25 09:53	1
13C5 PFHxA	90		50 - 200	02/22/25 20:56	02/25/25 09:53	1
13C4 PFHpA	95		50 - 200	02/22/25 20:56	02/25/25 09:53	1
13C8 PFOA	90		50 - 200	02/22/25 20:56	02/25/25 09:53	1
13C9 PFNA	89		50 - 200	02/22/25 20:56	02/25/25 09:53	1
13C7 PFUnA	86		50 - 200	02/22/25 20:56	02/25/25 09:53	1
13C2 PFDoA	87		50 - 200	02/22/25 20:56	02/25/25 09:53	1
13C4 PFBA	90		50 - 200	02/22/25 20:56	02/25/25 09:53	1
13C5 PFPeA	88		50 - 200	02/22/25 20:56	02/25/25 09:53	1
13C3 PFBS	93		50 - 200	02/22/25 20:56	02/25/25 09:53	1
13C3 PFHxS	97		50 - 200	02/22/25 20:56	02/25/25 09:53	1
13C8 PFOS	98		50 - 200	02/22/25 20:56	02/25/25 09:53	1
13C2-4:2-FTS	114		50 - 200	02/22/25 20:56	02/25/25 09:53	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-136990-1
SDG: Weekly PFAS

**Client Sample ID: AIEA GULCH WELLS PUMP 2
(331-202-TP072)**

Lab Sample ID: 380-136990-2

Date Collected: 02/18/25 10:36

Matrix: Drinking Water

Date Received: 02/21/25 09:34

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2-6:2-FTS	110		50 - 200	02/22/25 20:56	02/25/25 09:53	1
13C2-8:2-FTS	101		50 - 200	02/22/25 20:56	02/25/25 09:53	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		02/23/25 15:21	02/24/25 14:46	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		02/23/25 15:21	02/24/25 14:46	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		02/23/25 15:21	02/24/25 14:46	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		2.0	ng/L		02/23/25 15:21	02/24/25 14:46	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		2.0	ng/L		02/23/25 15:21	02/24/25 14:46	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		02/23/25 15:21	02/24/25 14:46	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		02/23/25 15:21	02/24/25 14:46	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		02/23/25 15:21	02/24/25 14:46	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		02/23/25 15:21	02/24/25 14:46	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		02/23/25 15:21	02/24/25 14:46	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		02/23/25 15:21	02/24/25 14:46	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		02/23/25 15:21	02/24/25 14:46	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		02/23/25 15:21	02/24/25 14:46	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0	ng/L		02/23/25 15:21	02/24/25 14:46	1
Perfluorotridecanoic acid (PFTrDA)	<2.0		2.0	ng/L		02/23/25 15:21	02/24/25 14:46	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		02/23/25 15:21	02/24/25 14:46	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		02/23/25 15:21	02/24/25 14:46	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		02/23/25 15:21	02/24/25 14:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	103		70 - 130	02/23/25 15:21	02/24/25 14:46	1
13C2 PFHxA	99		70 - 130	02/23/25 15:21	02/24/25 14:46	1
13C2 PFDA	94		70 - 130	02/23/25 15:21	02/24/25 14:46	1
13C3-GenX	98		70 - 130	02/23/25 15:21	02/24/25 14:46	1

**Client Sample ID: AIEA WELLS PUMPS 1&2 P2 (260)
(331-203-TP400)**

Lab Sample ID: 380-136990-3

Date Collected: 02/18/25 10:59

Matrix: Drinking Water

Date Received: 02/21/25 09:34

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 10:03	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 10:03	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 10:03	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 10:03	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-136990-1
SDG: Weekly PFAS

**Client Sample ID: AIEA WELLS PUMPS 1&2 P2 (260)
(331-203-TP400)**

Lab Sample ID: 380-136990-3

Date Collected: 02/18/25 10:59

Matrix: Drinking Water

Date Received: 02/21/25 09:34

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 10:03	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 10:03	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 10:03	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 10:03	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 10:03	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 10:03	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 10:03	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 10:03	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 10:03	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 10:03	1
Perfluorobutanoic acid (PFBA)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 10:03	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 10:03	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 10:03	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 10:03	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 10:03	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 10:03	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 10:03	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 10:03	1
Perfluoropentanoic acid (PFPeA)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 10:03	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 10:03	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 10:03	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	90		50 - 200	02/22/25 20:56	02/25/25 10:03	1
13C6 PFDA	95		50 - 200	02/22/25 20:56	02/25/25 10:03	1
13C5 PFHxA	99		50 - 200	02/22/25 20:56	02/25/25 10:03	1
13C4 PFHpA	98		50 - 200	02/22/25 20:56	02/25/25 10:03	1
13C8 PFOA	99		50 - 200	02/22/25 20:56	02/25/25 10:03	1
13C9 PFNA	98		50 - 200	02/22/25 20:56	02/25/25 10:03	1
13C7 PFUnA	91		50 - 200	02/22/25 20:56	02/25/25 10:03	1
13C2 PFDoA	91		50 - 200	02/22/25 20:56	02/25/25 10:03	1
13C4 PFBA	99		50 - 200	02/22/25 20:56	02/25/25 10:03	1
13C5 PFPeA	100		50 - 200	02/22/25 20:56	02/25/25 10:03	1
13C3 PFBS	95		50 - 200	02/22/25 20:56	02/25/25 10:03	1
13C3 PFHxS	99		50 - 200	02/22/25 20:56	02/25/25 10:03	1
13C8 PFOS	102		50 - 200	02/22/25 20:56	02/25/25 10:03	1
13C2-4:2-FTS	120		50 - 200	02/22/25 20:56	02/25/25 10:03	1
13C2-6:2-FTS	115		50 - 200	02/22/25 20:56	02/25/25 10:03	1
13C2-8:2-FTS	103		50 - 200	02/22/25 20:56	02/25/25 10:03	1

Client Sample Results

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

Job ID: 380-136990-1
SDG: Weekly PFAS

**Client Sample ID: AIEA WELLS PUMPS 1&2 P2 (260)
(331-203-TP400)**

Lab Sample ID: 380-136990-3

Date Collected: 02/18/25 10:59

Matrix: Drinking Water

Date Received: 02/21/25 09:34

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		02/23/25 15:21	02/24/25 14:55	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		02/23/25 15:21	02/24/25 14:55	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		02/23/25 15:21	02/24/25 14:55	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		2.0	ng/L		02/23/25 15:21	02/24/25 14:55	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		2.0	ng/L		02/23/25 15:21	02/24/25 14:55	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		02/23/25 15:21	02/24/25 14:55	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		02/23/25 15:21	02/24/25 14:55	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		02/23/25 15:21	02/24/25 14:55	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		02/23/25 15:21	02/24/25 14:55	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		02/23/25 15:21	02/24/25 14:55	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		02/23/25 15:21	02/24/25 14:55	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		02/23/25 15:21	02/24/25 14:55	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		02/23/25 15:21	02/24/25 14:55	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0	ng/L		02/23/25 15:21	02/24/25 14:55	1
Perfluorotridecanoic acid (PFTTrDA)	<2.0		2.0	ng/L		02/23/25 15:21	02/24/25 14:55	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		02/23/25 15:21	02/24/25 14:55	1
11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		02/23/25 15:21	02/24/25 14:55	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		02/23/25 15:21	02/24/25 14:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	100		70 - 130			02/23/25 15:21	02/24/25 14:55	1
13C2 PFHxA	100		70 - 130			02/23/25 15:21	02/24/25 14:55	1
13C2 PFDA	93		70 - 130			02/23/25 15:21	02/24/25 14:55	1
13C3-GenX	97		70 - 130			02/23/25 15:21	02/24/25 14:55	1

Client Sample ID: KA'AMILO WELLS

Lab Sample ID: 380-136990-4

Date Collected: 02/18/25 11:31

Matrix: Water

Date Received: 02/21/25 09:34

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		02/22/25 20:56	02/24/25 22:05	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		02/22/25 20:56	02/24/25 22:05	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		02/22/25 20:56	02/24/25 22:05	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		02/22/25 20:56	02/24/25 22:05	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		02/22/25 20:56	02/24/25 22:05	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		02/22/25 20:56	02/24/25 22:05	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		02/22/25 20:56	02/24/25 22:05	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		02/22/25 20:56	02/24/25 22:05	1
Perfluorohexanesulfonic acid (PFHxS)	2.3		2.0	ng/L		02/22/25 20:56	02/24/25 22:05	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		02/22/25 20:56	02/24/25 22:05	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-136990-1
SDG: Weekly PFAS

Client Sample ID: KA'AMILO WELLS

Lab Sample ID: 380-136990-4

Date Collected: 02/18/25 11:31

Matrix: Water

Date Received: 02/21/25 09:34

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		02/22/25 20:56	02/24/25 22:05	1
Perfluorooctanesulfonic acid (PFOS)	2.8		2.0	ng/L		02/22/25 20:56	02/24/25 22:05	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		02/22/25 20:56	02/24/25 22:05	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		02/22/25 20:56	02/24/25 22:05	1
Perfluorobutanoic acid (PFBA)	<2.0		2.0	ng/L		02/22/25 20:56	02/24/25 22:05	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0	ng/L		02/22/25 20:56	02/24/25 22:05	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0	ng/L		02/22/25 20:56	02/24/25 22:05	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0	ng/L		02/22/25 20:56	02/24/25 22:05	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		2.0	ng/L		02/22/25 20:56	02/24/25 22:05	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<2.0		2.0	ng/L		02/22/25 20:56	02/24/25 22:05	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		02/22/25 20:56	02/24/25 22:05	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		02/22/25 20:56	02/24/25 22:05	1
Perfluoropentanoic acid (PFPeA)	<2.0		2.0	ng/L		02/22/25 20:56	02/24/25 22:05	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		02/22/25 20:56	02/24/25 22:05	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		02/22/25 20:56	02/24/25 22:05	1
Isotope Dilution	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	88		50 - 200			02/22/25 20:56	02/24/25 22:05	1
13C6 PFDA	92		50 - 200			02/22/25 20:56	02/24/25 22:05	1
13C5 PFHxA	100		50 - 200			02/22/25 20:56	02/24/25 22:05	1
13C4 PFHpA	103		50 - 200			02/22/25 20:56	02/24/25 22:05	1
13C8 PFOA	102		50 - 200			02/22/25 20:56	02/24/25 22:05	1
13C9 PFNA	97		50 - 200			02/22/25 20:56	02/24/25 22:05	1
13C7 PFUnA	95		50 - 200			02/22/25 20:56	02/24/25 22:05	1
13C2 PFDoA	88		50 - 200			02/22/25 20:56	02/24/25 22:05	1
13C4 PFBA	98		50 - 200			02/22/25 20:56	02/24/25 22:05	1
13C5 PFPeA	103		50 - 200			02/22/25 20:56	02/24/25 22:05	1
13C3 PFBS	97		50 - 200			02/22/25 20:56	02/24/25 22:05	1
13C3 PFHxS	101		50 - 200			02/22/25 20:56	02/24/25 22:05	1
13C8 PFOS	98		50 - 200			02/22/25 20:56	02/24/25 22:05	1
13C2-4:2-FTS	133		50 - 200			02/22/25 20:56	02/24/25 22:05	1
13C2-6:2-FTS	126		50 - 200			02/22/25 20:56	02/24/25 22:05	1
13C2-8:2-FTS	104		50 - 200			02/22/25 20:56	02/24/25 22:05	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		02/23/25 15:21	02/24/25 15:05	1
Perfluorooctanesulfonic acid (PFOS)	2.5		2.0	ng/L		02/23/25 15:21	02/24/25 15:05	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		02/23/25 15:21	02/24/25 15:05	1
N-methylperfluorooctanesulfonamide cetic acid (NMeFOSAA)	<2.0		2.0	ng/L		02/23/25 15:21	02/24/25 15:05	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-136990-1
SDG: Weekly PFAS

Client Sample ID: KA'AMILO WELLS

Lab Sample ID: 380-136990-4

Date Collected: 02/18/25 11:31

Matrix: Water

Date Received: 02/21/25 09:34

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
N-ethylperfluorooctanesulfonamidoacetic acid (NETFOSAA)	<2.0		2.0	ng/L		02/23/25 15:21	02/24/25 15:05	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		02/23/25 15:21	02/24/25 15:05	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		02/23/25 15:21	02/24/25 15:05	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		02/23/25 15:21	02/24/25 15:05	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		02/23/25 15:21	02/24/25 15:05	1
Perfluorohexanesulfonic acid (PFHxS)	2.4		2.0	ng/L		02/23/25 15:21	02/24/25 15:05	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		02/23/25 15:21	02/24/25 15:05	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		02/23/25 15:21	02/24/25 15:05	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		02/23/25 15:21	02/24/25 15:05	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0	ng/L		02/23/25 15:21	02/24/25 15:05	1
Perfluorotridecanoic acid (PFTrDA)	<2.0		2.0	ng/L		02/23/25 15:21	02/24/25 15:05	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		02/23/25 15:21	02/24/25 15:05	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		02/23/25 15:21	02/24/25 15:05	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		02/23/25 15:21	02/24/25 15:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	102		70 - 130			02/23/25 15:21	02/24/25 15:05	1
13C2 PFHxA	108		70 - 130			02/23/25 15:21	02/24/25 15:05	1
13C2 PFDA	95		70 - 130			02/23/25 15:21	02/24/25 15:05	1
13C3-GenX	108		70 - 130			02/23/25 15:21	02/24/25 15:05	1

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

Lab Sample ID: 380-136990-5

Date Collected: 02/18/25 10:10

Matrix: Water

Date Received: 02/21/25 09:34

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 10:12	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 10:12	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 10:12	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 10:12	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 10:12	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 10:12	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 10:12	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 10:12	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 10:12	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 10:12	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 10:12	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 10:12	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 10:12	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 10:12	1
Perfluorobutanoic acid (PFBA)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 10:12	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-136990-1
SDG: Weekly PFAS

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

Lab Sample ID: 380-136990-5

Date Collected: 02/18/25 10:10

Matrix: Water

Date Received: 02/21/25 09:34

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 10:12	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 10:12	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 10:12	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 10:12	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 10:12	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 10:12	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 10:12	1
Perfluoropentanoic acid (PFPeA)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 10:12	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 10:12	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 10:12	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	92		50 - 200	02/22/25 20:56	02/25/25 10:12	1
13C6 PFDA	98		50 - 200	02/22/25 20:56	02/25/25 10:12	1
13C5 PFHxA	101		50 - 200	02/22/25 20:56	02/25/25 10:12	1
13C4 PFHpA	106		50 - 200	02/22/25 20:56	02/25/25 10:12	1
13C8 PFOA	100		50 - 200	02/22/25 20:56	02/25/25 10:12	1
13C9 PFNA	101		50 - 200	02/22/25 20:56	02/25/25 10:12	1
13C7 PFUnA	94		50 - 200	02/22/25 20:56	02/25/25 10:12	1
13C2 PFDoA	95		50 - 200	02/22/25 20:56	02/25/25 10:12	1
13C4 PFBA	101		50 - 200	02/22/25 20:56	02/25/25 10:12	1
13C5 PFPeA	98		50 - 200	02/22/25 20:56	02/25/25 10:12	1
13C3 PFBS	94		50 - 200	02/22/25 20:56	02/25/25 10:12	1
13C3 PFHxS	96		50 - 200	02/22/25 20:56	02/25/25 10:12	1
13C8 PFOS	99		50 - 200	02/22/25 20:56	02/25/25 10:12	1
13C2-4:2-FTS	120		50 - 200	02/22/25 20:56	02/25/25 10:12	1
13C2-6:2-FTS	113		50 - 200	02/22/25 20:56	02/25/25 10:12	1
13C2-8:2-FTS	101		50 - 200	02/22/25 20:56	02/25/25 10:12	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		02/23/25 15:21	02/24/25 15:14	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		02/23/25 15:21	02/24/25 15:14	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		02/23/25 15:21	02/24/25 15:14	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		2.0	ng/L		02/23/25 15:21	02/24/25 15:14	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		2.0	ng/L		02/23/25 15:21	02/24/25 15:14	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		02/23/25 15:21	02/24/25 15:14	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		02/23/25 15:21	02/24/25 15:14	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		02/23/25 15:21	02/24/25 15:14	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		02/23/25 15:21	02/24/25 15:14	1

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Client Sample Results

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

Job ID: 380-136990-1
SDG: Weekly PFAS

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

Lab Sample ID: 380-136990-5

Date Collected: 02/18/25 10:10

Matrix: Water

Date Received: 02/21/25 09:34

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		02/23/25 15:21	02/24/25 15:14	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		02/23/25 15:21	02/24/25 15:14	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		02/23/25 15:21	02/24/25 15:14	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		02/23/25 15:21	02/24/25 15:14	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0	ng/L		02/23/25 15:21	02/24/25 15:14	1
Perfluorotridecanoic acid (PFTTrDA)	<2.0		2.0	ng/L		02/23/25 15:21	02/24/25 15:14	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		02/23/25 15:21	02/24/25 15:14	1
11-Chloroeicosafuoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		02/23/25 15:21	02/24/25 15:14	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		02/23/25 15:21	02/24/25 15:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	105		70 - 130			02/23/25 15:21	02/24/25 15:14	1
13C2 PFHxA	110		70 - 130			02/23/25 15:21	02/24/25 15:14	1
13C2 PFDA	99		70 - 130			02/23/25 15:21	02/24/25 15:14	1
13C3-GenX	102		70 - 130			02/23/25 15:21	02/24/25 15:14	1

**Client Sample ID: FB AIEA GULCH WELLS PUMP 2
(331-202-TP072)**

Lab Sample ID: 380-136990-6

Date Collected: 02/18/25 10:36

Matrix: Water

Date Received: 02/21/25 09:34

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosafuoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 10:22	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 10:22	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 10:22	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 10:22	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 10:22	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 10:22	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 10:22	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 10:22	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 10:22	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 10:22	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 10:22	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 10:22	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 10:22	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 10:22	1
Perfluorobutanoic acid (PFBA)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 10:22	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 10:22	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 10:22	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 10:22	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-136990-1
SDG: Weekly PFAS

**Client Sample ID: FB AIEA GULCH WELLS PUMP 2
(331-202-TP072)**

Lab Sample ID: 380-136990-6

Date Collected: 02/18/25 10:36

Matrix: Water

Date Received: 02/21/25 09:34

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 10:22	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 10:22	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 10:22	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 10:22	1
Perfluoropentanoic acid (PFPeA)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 10:22	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 10:22	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 10:22	1
Isotope Dilution	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	90		50 - 200			02/22/25 20:56	02/25/25 10:22	1
13C6 PFDA	97		50 - 200			02/22/25 20:56	02/25/25 10:22	1
13C5 PFHxA	101		50 - 200			02/22/25 20:56	02/25/25 10:22	1
13C4 PFHpA	105		50 - 200			02/22/25 20:56	02/25/25 10:22	1
13C8 PFOA	99		50 - 200			02/22/25 20:56	02/25/25 10:22	1
13C9 PFNA	98		50 - 200			02/22/25 20:56	02/25/25 10:22	1
13C7 PFUnA	93		50 - 200			02/22/25 20:56	02/25/25 10:22	1
13C2 PFDoA	94		50 - 200			02/22/25 20:56	02/25/25 10:22	1
13C4 PFBA	99		50 - 200			02/22/25 20:56	02/25/25 10:22	1
13C5 PFPeA	101		50 - 200			02/22/25 20:56	02/25/25 10:22	1
13C3 PFBS	95		50 - 200			02/22/25 20:56	02/25/25 10:22	1
13C3 PFHxS	96		50 - 200			02/22/25 20:56	02/25/25 10:22	1
13C8 PFOS	98		50 - 200			02/22/25 20:56	02/25/25 10:22	1
13C2-4:2-FTS	126		50 - 200			02/22/25 20:56	02/25/25 10:22	1
13C2-6:2-FTS	116		50 - 200			02/22/25 20:56	02/25/25 10:22	1
13C2-8:2-FTS	104		50 - 200			02/22/25 20:56	02/25/25 10:22	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		02/23/25 15:21	02/24/25 15:24	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		02/23/25 15:21	02/24/25 15:24	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		02/23/25 15:21	02/24/25 15:24	1
N-methylperfluorooctanesulfonamideacetic acid (NMeFOSAA)	<2.0		2.0	ng/L		02/23/25 15:21	02/24/25 15:24	1
N-ethylperfluorooctanesulfonamideacetic acid (NEtFOSAA)	<2.0		2.0	ng/L		02/23/25 15:21	02/24/25 15:24	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		02/23/25 15:21	02/24/25 15:24	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		02/23/25 15:21	02/24/25 15:24	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		02/23/25 15:21	02/24/25 15:24	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		02/23/25 15:21	02/24/25 15:24	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		02/23/25 15:21	02/24/25 15:24	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		02/23/25 15:21	02/24/25 15:24	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		02/23/25 15:21	02/24/25 15:24	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		02/23/25 15:21	02/24/25 15:24	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0	ng/L		02/23/25 15:21	02/24/25 15:24	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-136990-1
SDG: Weekly PFAS

**Client Sample ID: FB AIEA GULCH WELLS PUMP 2
(331-202-TP072)**

Lab Sample ID: 380-136990-6

Date Collected: 02/18/25 10:36

Matrix: Water

Date Received: 02/21/25 09:34

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorotridecanoic acid (PFTTrDA)	<2.0		2.0	ng/L		02/23/25 15:21	02/24/25 15:24	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		02/23/25 15:21	02/24/25 15:24	1
11-Chloroeicosafuoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		02/23/25 15:21	02/24/25 15:24	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		02/23/25 15:21	02/24/25 15:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	102		70 - 130			02/23/25 15:21	02/24/25 15:24	1
13C2 PFHxA	103		70 - 130			02/23/25 15:21	02/24/25 15:24	1
13C2 PFDA	98		70 - 130			02/23/25 15:21	02/24/25 15:24	1
13C3-GenX	96		70 - 130			02/23/25 15:21	02/24/25 15:24	1

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

Lab Sample ID: 380-136990-7

Date Collected: 02/18/25 10:59

Matrix: Water

Date Received: 02/21/25 09:34

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosafuoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 10:32	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 10:32	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 10:32	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 10:32	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 10:32	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 10:32	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 10:32	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 10:32	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 10:32	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 10:32	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 10:32	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 10:32	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 10:32	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 10:32	1
Perfluorobutanoic acid (PFBA)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 10:32	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 10:32	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 10:32	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 10:32	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 10:32	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 10:32	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 10:32	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-136990-1
SDG: Weekly PFAS

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

Lab Sample ID: 380-136990-7

Date Collected: 02/18/25 10:59

Matrix: Water

Date Received: 02/21/25 09:34

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 10:32	1
Perfluoropentanoic acid (PFPeA)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 10:32	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 10:32	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 10:32	1
Isotope Dilution	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	93		50 - 200			02/22/25 20:56	02/25/25 10:32	1
13C6 PFDA	94		50 - 200			02/22/25 20:56	02/25/25 10:32	1
13C5 PFHxA	100		50 - 200			02/22/25 20:56	02/25/25 10:32	1
13C4 PFHpA	103		50 - 200			02/22/25 20:56	02/25/25 10:32	1
13C8 PFOA	96		50 - 200			02/22/25 20:56	02/25/25 10:32	1
13C9 PFNA	95		50 - 200			02/22/25 20:56	02/25/25 10:32	1
13C7 PFUnA	93		50 - 200			02/22/25 20:56	02/25/25 10:32	1
13C2 PFDoA	93		50 - 200			02/22/25 20:56	02/25/25 10:32	1
13C4 PFBA	98		50 - 200			02/22/25 20:56	02/25/25 10:32	1
13C5 PFPeA	96		50 - 200			02/22/25 20:56	02/25/25 10:32	1
13C3 PFBS	94		50 - 200			02/22/25 20:56	02/25/25 10:32	1
13C3 PFHxS	95		50 - 200			02/22/25 20:56	02/25/25 10:32	1
13C8 PFOS	98		50 - 200			02/22/25 20:56	02/25/25 10:32	1
13C2-4:2-FTS	120		50 - 200			02/22/25 20:56	02/25/25 10:32	1
13C2-6:2-FTS	111		50 - 200			02/22/25 20:56	02/25/25 10:32	1
13C2-8:2-FTS	99		50 - 200			02/22/25 20:56	02/25/25 10:32	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		02/23/25 15:21	02/24/25 15:34	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		02/23/25 15:21	02/24/25 15:34	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		02/23/25 15:21	02/24/25 15:34	1
N-methylperfluorooctanesulfonamideacetic acid (NMeFOSAA)	<2.0		2.0	ng/L		02/23/25 15:21	02/24/25 15:34	1
N-ethylperfluorooctanesulfonamideacetic acid (NEtFOSAA)	<2.0		2.0	ng/L		02/23/25 15:21	02/24/25 15:34	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		02/23/25 15:21	02/24/25 15:34	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		02/23/25 15:21	02/24/25 15:34	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		02/23/25 15:21	02/24/25 15:34	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		02/23/25 15:21	02/24/25 15:34	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		02/23/25 15:21	02/24/25 15:34	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		02/23/25 15:21	02/24/25 15:34	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		02/23/25 15:21	02/24/25 15:34	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		02/23/25 15:21	02/24/25 15:34	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0	ng/L		02/23/25 15:21	02/24/25 15:34	1
Perfluorotridecanoic acid (PFTrDA)	<2.0		2.0	ng/L		02/23/25 15:21	02/24/25 15:34	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		02/23/25 15:21	02/24/25 15:34	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		02/23/25 15:21	02/24/25 15:34	1

Client Sample Results

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

Job ID: 380-136990-1
SDG: Weekly PFAS

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

Lab Sample ID: 380-136990-7

Date Collected: 02/18/25 10:59

Matrix: Water

Date Received: 02/21/25 09:34

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		02/23/25 15:21	02/24/25 15:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	100		70 - 130			02/23/25 15:21	02/24/25 15:34	1
13C2 PFHxA	104		70 - 130			02/23/25 15:21	02/24/25 15:34	1
13C2 PFDA	96		70 - 130			02/23/25 15:21	02/24/25 15:34	1
13C3-GenX	99		70 - 130			02/23/25 15:21	02/24/25 15:34	1

Client Sample ID: FB KA'AMILO WELLS

Lab Sample ID: 380-136990-8

Date Collected: 02/18/25 11:31

Matrix: Water

Date Received: 02/21/25 09:34

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosfluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 10:41	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 10:41	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 10:41	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 10:41	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 10:41	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 10:41	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 10:41	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 10:41	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 10:41	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 10:41	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 10:41	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 10:41	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 10:41	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 10:41	1
Perfluorobutanoic acid (PFBA)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 10:41	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 10:41	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 10:41	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 10:41	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 10:41	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 10:41	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 10:41	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 10:41	1
Perfluoropentanoic acid (PFPeA)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 10:41	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 10:41	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-136990-1
SDG: Weekly PFAS

Client Sample ID: FB KA'AMILO WELLS

Lab Sample ID: 380-136990-8

Date Collected: 02/18/25 11:31

Matrix: Water

Date Received: 02/21/25 09:34

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		02/22/25 20:56	02/25/25 10:41	1
Isotope Dilution	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	92		50 - 200			02/22/25 20:56	02/25/25 10:41	1
13C6 PFDA	96		50 - 200			02/22/25 20:56	02/25/25 10:41	1
13C5 PFHxA	98		50 - 200			02/22/25 20:56	02/25/25 10:41	1
13C4 PFHpA	104		50 - 200			02/22/25 20:56	02/25/25 10:41	1
13C8 PFOA	100		50 - 200			02/22/25 20:56	02/25/25 10:41	1
13C9 PFNA	98		50 - 200			02/22/25 20:56	02/25/25 10:41	1
13C7 PFUnA	93		50 - 200			02/22/25 20:56	02/25/25 10:41	1
13C2 PFDoA	92		50 - 200			02/22/25 20:56	02/25/25 10:41	1
13C4 PFBA	99		50 - 200			02/22/25 20:56	02/25/25 10:41	1
13C5 PFPeA	98		50 - 200			02/22/25 20:56	02/25/25 10:41	1
13C3 PFBS	98		50 - 200			02/22/25 20:56	02/25/25 10:41	1
13C3 PFHxS	96		50 - 200			02/22/25 20:56	02/25/25 10:41	1
13C8 PFOS	101		50 - 200			02/22/25 20:56	02/25/25 10:41	1
13C2-4:2-FTS	125		50 - 200			02/22/25 20:56	02/25/25 10:41	1
13C2-6:2-FTS	114		50 - 200			02/22/25 20:56	02/25/25 10:41	1
13C2-8:2-FTS	103		50 - 200			02/22/25 20:56	02/25/25 10:41	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		02/23/25 15:21	02/24/25 15:43	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		02/23/25 15:21	02/24/25 15:43	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		02/23/25 15:21	02/24/25 15:43	1
N-methylperfluorooctanesulfonamideacetic acid (NMeFOSAA)	<2.0		2.0	ng/L		02/23/25 15:21	02/24/25 15:43	1
N-ethylperfluorooctanesulfonamideacetic acid (NEtFOSAA)	<2.0		2.0	ng/L		02/23/25 15:21	02/24/25 15:43	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		02/23/25 15:21	02/24/25 15:43	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		02/23/25 15:21	02/24/25 15:43	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		02/23/25 15:21	02/24/25 15:43	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		02/23/25 15:21	02/24/25 15:43	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		02/23/25 15:21	02/24/25 15:43	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		02/23/25 15:21	02/24/25 15:43	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		02/23/25 15:21	02/24/25 15:43	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		02/23/25 15:21	02/24/25 15:43	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0	ng/L		02/23/25 15:21	02/24/25 15:43	1
Perfluorotridecanoic acid (PFTrDA)	<2.0		2.0	ng/L		02/23/25 15:21	02/24/25 15:43	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		02/23/25 15:21	02/24/25 15:43	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		02/23/25 15:21	02/24/25 15:43	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		02/23/25 15:21	02/24/25 15:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	94		70 - 130			02/23/25 15:21	02/24/25 15:43	1
13C2 PFHxA	100		70 - 130			02/23/25 15:21	02/24/25 15:43	1
13C2 PFDA	97		70 - 130			02/23/25 15:21	02/24/25 15:43	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-136990-1
SDG: Weekly PFAS

Client Sample ID: FB KA'AMILO WELLS

Lab Sample ID: 380-136990-8

Date Collected: 02/18/25 11:31

Matrix: Water

Date Received: 02/21/25 09:34

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

<u>Surrogate</u>	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Dil Fac</u>
13C3-GenX	105		70 - 130	02/23/25 15:21	02/24/25 15:43	1

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Action Limit Summary

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

Job ID: 380-136990-1
SDG: Weekly PFAS

**Client Sample ID: HALAWA WELLS UNITS 1 & 2 P1
(331-206-TP065)**

Lab Sample ID: 380-136990-1

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			
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		ng/L	10	2.0	533	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	2.6		ng/L	10	2.0	533	Total/NA
Perfluorononanoic acid (PFNA)	<2.0		ng/L	10	2.0	533	Total/NA
Perfluorooctanesulfonic acid (PFOS)	2.4		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)	2.3		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)	2.6		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
(331-202-TP072)**

Lab Sample ID: 380-136990-2

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			
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 WELLS PUMPS 1&2 P2 (260)
(331-203-TP400)**

Lab Sample ID: 380-136990-3

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			
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

Eurofins Eaton Analytical Pomona

Action Limit Summary

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

Job ID: 380-136990-1
SDG: Weekly PFAS

**Client Sample ID: AIEA WELLS PUMPS 1&2 P2 (260)
(331-203-TP400) (Continued)**

Lab Sample ID: 380-136990-3

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			
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: KA'AMILO WELLS

Lab Sample ID: 380-136990-4

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	533	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	2.3		ng/L	10	2.0	533	Total/NA
Perfluorononanoic acid (PFNA)	<2.0		ng/L	10	2.0	533	Total/NA
Perfluorooctanesulfonic acid (PFOS)	2.8		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)	2.5		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)	2.4		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
(331-206-TP065)**

Lab Sample ID: 380-136990-5

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

Eurofins Eaton Analytical Pomona

Action Limit Summary

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

Job ID: 380-136990-1
SDG: Weekly PFAS

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

Lab Sample ID: 380-136990-5

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 Limit	RL	Method	Prep Type
Perfluorononanoic acid (PFNA)	<2.0		ng/L	10	2.0	537.1	Total/NA

**Client Sample ID: FB AIEA GULCH WELLS PUMP 2
(331-202-TP072)**

Lab Sample ID: 380-136990-6

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 Limit	RL	Method	Prep Type
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 WELLS PUMPS 1&2 (260)
(331-203-TP400)**

Lab Sample ID: 380-136990-7

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 Limit	RL	Method	Prep Type
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: 380-136990-1
 SDG: Weekly PFAS

Client Sample ID: FB KA'AMILO WELLS

Lab Sample ID: 380-136990-8

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	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

Surrogate Summary

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

Job ID: 380-136990-1
 SDG: Weekly PFAS

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

Matrix: Drinking 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)
380-136990-1	HALAWA WELLS UNITS 1 & 2 F	102	100	96	101
380-136990-2	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	103	99	94	98
380-136990-3	AIEA WELLS PUMPS 1&2 P2 (260) (331-203-TP400)	100	100	93	97

Surrogate Legend

d5NEFOS = d5-NEtFOSAA
 PFHxA = 13C2 PFHxA
 PFDA = 13C2 PFDA
 GenX = 13C3-GenX

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)
380-136903-B-1-A MS	Matrix Spike	98	102	93	93
380-136903-C-1-A MSD	Matrix Spike Duplicate	100	99	93	88
380-136990-4	KA'AMILO WELLS	102	108	95	108
380-136990-5	FB HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	105	110	99	102
380-136990-6	FB AIEA GULCH WELLS PUMP 2 (331-202-TP072)	102	103	98	96
380-136990-7	FB AIEA WELLS PUMPS 1&2 (260) (331-203-TP400)	100	104	96	99
380-136990-8	FB KA'AMILO WELLS	94	100	97	105
LCS 380-137257/22-A	Lab Control Sample	96	102	98	96
MBL 380-137257/20-A	Method Blank	102	104	99	100
MRL 380-137257/21-A	Lab Control Sample	106	104	98	102

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: 380-136990-1
SDG: Weekly PFAS

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

Matrix: Drinking 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)
380-136990-1	HALAWA WELLS UNITS 1 & 2 F	90	94	95	99	96	97	89	91
380-136990-2	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	83	89	90	95	90	89	86	87
380-136990-3	AIEA WELLS PUMPS 1&2 P2 (260) (331-203-TP400)	90	95	99	98	99	98	91	91

		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)
380-136990-1	HALAWA WELLS UNITS 1 & 2 F	98	99	96	94	98	121	109	101
380-136990-2	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	90	88	93	97	98	114	110	101
380-136990-3	AIEA WELLS PUMPS 1&2 P2 (260) (331-203-TP400)	99	100	95	99	102	120	115	103

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

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)
380-136990-4	KA'AMILO WELLS	88	92	100	103	102	97	95	88
380-136990-4 MS	KA'AMILO WELLS	86	93	93	96	95	93	99	96
380-136990-4 MSD	KA'AMILO WELLS	85	94	89	95	94	89	93	88
380-136990-5	FB HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	92	98	101	106	100	101	94	95
380-136990-6	FB AIEA GULCH WELLS PUMP 2 (331-202-TP072)	90	97	101	105	99	98	93	94
380-136990-7	FB AIEA WELLS PUMPS 1&2 (260) (331-203-TP400)	93	94	100	103	96	95	93	93
380-136990-8	FB KA'AMILO WELLS	92	96	98	104	100	98	93	92
LCS 380-137220/23-A	Lab Control Sample	89	99	99	105	106	102	99	95
MBL 380-137220/21-A	Method Blank	91	100	105	107	106	98	101	94
MRL 380-137220/22-A	Lab Control Sample	93	100	110	113	110	105	103	99

Isotope Dilution Summary

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

Job ID: 380-136990-1
 SDG: Weekly PFAS

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

Matrix: Water

Prep Type: Total/NA

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)
380-136990-4	KA'AMILO WELLS	98	103	97	101	98	133	126	104
380-136990-4 MS	KA'AMILO WELLS	91	96	104	105	105	138	128	112
380-136990-4 MSD	KA'AMILO WELLS	88	92	99	102	100	140	127	108
380-136990-5	FB HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	101	98	94	96	99	120	113	101
380-136990-6	FB AIEA GULCH WELLS PUMP 2 (331-202-TP072)	99	101	95	96	98	126	116	104
380-136990-7	FB AIEA WELLS PUMPS 1&2 (260) (331-203-TP400)	98	96	94	95	98	120	111	99
380-136990-8	FB KA'AMILO WELLS	99	98	98	96	101	125	114	103
LCS 380-137220/23-A	Lab Control Sample	102	105	102	103	104	155	177	125
MBL 380-137220/21-A	Method Blank	101	106	103	109	104	138	121	111
MRL 380-137220/22-A	Lab Control Sample	107	105	108	111	108	142	128	109

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: 380-136990-1
SDG: Weekly PFAS

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

Lab Sample ID: MBL 380-137220/21-A
Matrix: Water
Analysis Batch: 137410

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 137220

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosafuoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS)	<0.30		2.0	ng/L		02/22/25 20:56	02/24/25 21:37	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS)	<0.30		2.0	ng/L		02/22/25 20:56	02/24/25 21:37	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.60		2.0	ng/L		02/22/25 20:56	02/24/25 21:37	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<1.0		2.0	ng/L		02/22/25 20:56	02/24/25 21:37	1
Perfluorobutanesulfonic acid (PFBS)	<0.37		2.0	ng/L		02/22/25 20:56	02/24/25 21:37	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	ng/L		02/22/25 20:56	02/24/25 21:37	1
Perfluorododecanoic acid (PFDoA)	<0.54		2.0	ng/L		02/22/25 20:56	02/24/25 21:37	1
Perfluoroheptanoic acid (PFHpA)	<0.39		2.0	ng/L		02/22/25 20:56	02/24/25 21:37	1
Perfluorohexanesulfonic acid (PFHxS)	<0.32		2.0	ng/L		02/22/25 20:56	02/24/25 21:37	1
Perfluorohexanoic acid (PFHxA)	<0.46		2.0	ng/L		02/22/25 20:56	02/24/25 21:37	1
Perfluorononanoic acid (PFNA)	<0.40		2.0	ng/L		02/22/25 20:56	02/24/25 21:37	1
Perfluorooctanesulfonic acid (PFOS)	<0.43		2.0	ng/L		02/22/25 20:56	02/24/25 21:37	1
Perfluorooctanoic acid (PFOA)	<0.38		2.0	ng/L		02/22/25 20:56	02/24/25 21:37	1
Perfluoroundecanoic acid (PFUnA)	<0.42		2.0	ng/L		02/22/25 20:56	02/24/25 21:37	1
Perfluorobutanoic acid (PFBA)	<0.69		2.0	ng/L		02/22/25 20:56	02/24/25 21:37	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<0.38		2.0	ng/L		02/22/25 20:56	02/24/25 21:37	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<0.37		2.0	ng/L		02/22/25 20:56	02/24/25 21:37	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<0.48		2.0	ng/L		02/22/25 20:56	02/24/25 21:37	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.47		2.0	ng/L		02/22/25 20:56	02/24/25 21:37	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<0.25		2.0	ng/L		02/22/25 20:56	02/24/25 21:37	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.46		2.0	ng/L		02/22/25 20:56	02/24/25 21:37	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.15		2.0	ng/L		02/22/25 20:56	02/24/25 21:37	1
Perfluoropentanoic acid (PFPeA)	<0.38		2.0	ng/L		02/22/25 20:56	02/24/25 21:37	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.36		2.0	ng/L		02/22/25 20:56	02/24/25 21:37	1
Perfluoropentanesulfonic acid (PFPeS)	<0.39		2.0	ng/L		02/22/25 20:56	02/24/25 21:37	1

Isotope Dilution	MBL %Recovery	MBL Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	91		50 - 200	02/22/25 20:56	02/24/25 21:37	1
13C6 PFDA	100		50 - 200	02/22/25 20:56	02/24/25 21:37	1
13C5 PFHxA	105		50 - 200	02/22/25 20:56	02/24/25 21:37	1
13C4 PFHpA	107		50 - 200	02/22/25 20:56	02/24/25 21:37	1
13C8 PFOA	106		50 - 200	02/22/25 20:56	02/24/25 21:37	1
13C9 PFNA	98		50 - 200	02/22/25 20:56	02/24/25 21:37	1
13C7 PFUnA	101		50 - 200	02/22/25 20:56	02/24/25 21:37	1
13C2 PFDoA	94		50 - 200	02/22/25 20:56	02/24/25 21:37	1
13C4 PFBA	101		50 - 200	02/22/25 20:56	02/24/25 21:37	1
13C5 PFPeA	106		50 - 200	02/22/25 20:56	02/24/25 21:37	1
13C3 PFBS	103		50 - 200	02/22/25 20:56	02/24/25 21:37	1
13C3 PFHxS	109		50 - 200	02/22/25 20:56	02/24/25 21:37	1

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-136990-1
SDG: Weekly PFAS

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

Lab Sample ID: MBL 380-137220/21-A
Matrix: Water
Analysis Batch: 137410

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 137220

Isotope Dilution	MBL MBL		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C8 PFOS	104		50 - 200	02/22/25 20:56	02/24/25 21:37	1
13C2-4:2-FTS	138		50 - 200	02/22/25 20:56	02/24/25 21:37	1
13C2-6:2-FTS	121		50 - 200	02/22/25 20:56	02/24/25 21:37	1
13C2-8:2-FTS	111		50 - 200	02/22/25 20:56	02/24/25 21:37	1

Lab Sample ID: LCS 380-137220/23-A
Matrix: Water
Analysis Batch: 137410

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 137220

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
11-Chloroeicosfluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	60.4	50.3		ng/L		83	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	60.4	52.4		ng/L		87	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	60.4	54.7		ng/L		91	70 - 130
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	60.4	55.1		ng/L		91	70 - 130
Perfluorobutanesulfonic acid (PFBS)	60.4	57.3		ng/L		95	70 - 130
Perfluorodecanoic acid (PFDA)	60.4	58.6		ng/L		97	70 - 130
Perfluorododecanoic acid (PFDoA)	60.4	57.8		ng/L		96	70 - 130
Perfluoroheptanoic acid (PFHpA)	60.4	55.4		ng/L		92	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	60.4	56.0		ng/L		93	70 - 130
Perfluorohexanoic acid (PFHxA)	60.4	56.7		ng/L		94	70 - 130
Perfluorononanoic acid (PFNA)	60.4	56.3		ng/L		93	70 - 130
Perfluorooctanesulfonic acid (PFOS)	60.4	55.5		ng/L		92	70 - 130
Perfluorooctanoic acid (PFOA)	60.4	53.8		ng/L		89	70 - 130
Perfluoroundecanoic acid (PFUnA)	60.4	57.8		ng/L		96	70 - 130
Perfluorobutanoic acid (PFBA)	60.4	55.3		ng/L		92	70 - 130
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	60.4	55.7		ng/L		92	70 - 130
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	60.4	56.8		ng/L		94	70 - 130
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	60.4	56.0		ng/L		93	70 - 130
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	60.4	44.9		ng/L		74	70 - 130
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	60.4	50.4		ng/L		84	70 - 130
Perfluoro-3-methoxypropanoic acid (PFMPA)	60.4	55.8		ng/L		93	70 - 130
Perfluoro-4-methoxybutanoic acid (PFMBA)	60.4	54.3		ng/L		90	70 - 130
Perfluoropentanoic acid (PFPeA)	60.4	55.2		ng/L		91	70 - 130
Perfluoroheptanesulfonic acid (PFHpS)	60.4	54.4		ng/L		90	70 - 130

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-136990-1
SDG: Weekly PFAS

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

Lab Sample ID: LCS 380-137220/23-A
Matrix: Water
Analysis Batch: 137410

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 137220

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoropentanesulfonic acid (PFPeS)	60.4	55.0		ng/L		91	70 - 130
LCS LCS							
Isotope Dilution	%Recovery	Qualifier	Limits				
13C3 HFPO-DA	89		50 - 200				
13C6 PFDA	99		50 - 200				
13C5 PFHxA	99		50 - 200				
13C4 PFHpA	105		50 - 200				
13C8 PFOA	106		50 - 200				
13C9 PFNA	102		50 - 200				
13C7 PFUnA	99		50 - 200				
13C2 PFDoA	95		50 - 200				
13C4 PFBA	102		50 - 200				
13C5 PFPeA	105		50 - 200				
13C3 PFBS	102		50 - 200				
13C3 PFHxS	103		50 - 200				
13C8 PFOS	104		50 - 200				
13C2-4:2-FTS	155		50 - 200				
13C2-6:2-FTS	177		50 - 200				
13C2-8:2-FTS	125		50 - 200				

Lab Sample ID: MRL 380-137220/22-A
Matrix: Water
Analysis Batch: 137410

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 137220

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
11-Chloroeicosfluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.01	1.87	J	ng/L		93	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	2.01	1.86	J	ng/L		92	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	2.01	2.01	J	ng/L		100	50 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	2.01	2.00	J	ng/L		99	50 - 150
Perfluorobutanesulfonic acid (PFBS)	2.01	2.13	J	ng/L		106	50 - 150
Perfluorodecanoic acid (PFDA)	2.01	2.19	J	ng/L		109	50 - 150
Perfluorododecanoic acid (PFDoA)	2.01	2.17	J	ng/L		108	50 - 150
Perfluoroheptanoic acid (PFHpA)	2.01	2.08	J	ng/L		103	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	2.01	2.08	J	ng/L		103	50 - 150
Perfluorohexanoic acid (PFHxA)	2.01	2.04	J	ng/L		101	50 - 150
Perfluorononanoic acid (PFNA)	2.01	2.09	J	ng/L		104	50 - 150
Perfluorooctanesulfonic acid (PFOS)	2.01	2.15	J	ng/L		107	50 - 150
Perfluorooctanoic acid (PFOA)	2.01	2.04	J	ng/L		101	50 - 150
Perfluoroundecanoic acid (PFUnA)	2.01	2.08	J	ng/L		103	50 - 150
Perfluorobutanoic acid (PFBA)	2.01	2.03	J	ng/L		101	50 - 150

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-136990-1
SDG: Weekly PFAS

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

Lab Sample ID: MRL 380-137220/22-A
Matrix: Water
Analysis Batch: 137410

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 137220

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	2.01	2.25	J	ng/L		112	50 - 150
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	2.01	2.19	J	ng/L		109	50 - 150
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	2.01	2.50	J	ng/L		124	50 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	2.01	1.79	J	ng/L		89	50 - 150
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	2.01	1.76	J	ng/L		88	50 - 150
Perfluoro-3-methoxypropanoic acid (PFMPA)	2.01	2.00	J	ng/L		100	50 - 150
Perfluoro-4-methoxybutanoic acid (PFMBA)	2.01	2.07	J	ng/L		103	50 - 150
Perfluoropentanoic acid (PFPeA)	2.01	2.15	J	ng/L		107	50 - 150
Perfluoroheptanesulfonic acid (PFHpS)	2.01	2.09	J	ng/L		104	50 - 150
Perfluoropentanesulfonic acid (PFPeS)	2.01	1.91	J	ng/L		95	50 - 150

Isotope Dilution	MRL %Recovery	MRL Qualifier	MRL Limits
13C3 HFPO-DA	93		50 - 200
13C6 PFDA	100		50 - 200
13C5 PFHxA	110		50 - 200
13C4 PFHpA	113		50 - 200
13C8 PFOA	110		50 - 200
13C9 PFNA	105		50 - 200
13C7 PFUnA	103		50 - 200
13C2 PFDoA	99		50 - 200
13C4 PFBA	107		50 - 200
13C5 PFPeA	105		50 - 200
13C3 PFBS	108		50 - 200
13C3 PFHxS	111		50 - 200
13C8 PFOS	108		50 - 200
13C2-4:2-FTS	142		50 - 200
13C2-6:2-FTS	128		50 - 200
13C2-8:2-FTS	109		50 - 200

Lab Sample ID: 380-136990-4 MS
Matrix: Water
Analysis Batch: 137410

Client Sample ID: KA'AMILO WELLS
Prep Type: Total/NA
Prep Batch: 137220

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		60.1	53.8		ng/L		89	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		60.1	51.4		ng/L		85	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		60.1	53.0		ng/L		88	70 - 130

QC Sample Results

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

Job ID: 380-136990-1
SDG: Weekly PFAS

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

Lab Sample ID: 380-136990-4 MS

Client Sample ID: KA'AMILO WELLS

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 137410

Prep Batch: 137220

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Hexafluoropropylene Oxide	<2.0		60.1	57.3		ng/L		95	70 - 130
Dimer Acid (HFPO-DA/GenX)									
Perfluorobutanesulfonic acid (PFBS)	<2.0		60.1	58.9		ng/L		95	70 - 130
Perfluorodecanoic acid (PFDA)	<2.0		60.1	58.2		ng/L		97	70 - 130
Perfluorododecanoic acid (PFDoA)	<2.0		60.1	55.1		ng/L		92	70 - 130
Perfluoroheptanoic acid (PFHpA)	<2.0		60.1	56.9		ng/L		93	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	2.3		60.1	58.0		ng/L		93	70 - 130
Perfluorohexanoic acid (PFHxA)	<2.0		60.1	58.9		ng/L		95	70 - 130
Perfluorononanoic acid (PFNA)	<2.0		60.1	55.8		ng/L		93	70 - 130
Perfluorooctanesulfonic acid (PFOS)	2.8		60.1	58.8		ng/L		93	70 - 130
Perfluorooctanoic acid (PFOA)	<2.0		60.1	56.7		ng/L		92	70 - 130
Perfluoroundecanoic acid (PFUnA)	<2.0		60.1	56.2		ng/L		93	70 - 130
Perfluorobutanoic acid (PFBA)	<2.0		60.1	56.6		ng/L		94	70 - 130
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		60.1	55.3		ng/L		92	70 - 130
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		60.1	57.9		ng/L		96	70 - 130
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		60.1	55.0		ng/L		92	70 - 130
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		60.1	47.3		ng/L		79	70 - 130
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<2.0		60.1	50.5		ng/L		84	70 - 130
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		60.1	55.3		ng/L		92	70 - 130
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		60.1	55.8		ng/L		93	70 - 130
Perfluoropentanoic acid (PFPeA)	<2.0		60.1	56.5		ng/L		91	70 - 130
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		60.1	55.1		ng/L		92	70 - 130
Perfluoropentanesulfonic acid (PFPeS)	<2.0		60.1	55.7		ng/L		93	70 - 130

Isotope Dilution	MS MS		Limits
	%Recovery	Qualifier	
13C3 HFPO-DA	86		50 - 200
13C6 PFDA	93		50 - 200
13C5 PFHxA	93		50 - 200
13C4 PFHpA	96		50 - 200
13C8 PFOA	95		50 - 200
13C9 PFNA	93		50 - 200
13C7 PFUnA	99		50 - 200
13C2 PFDoA	96		50 - 200
13C4 PFBA	91		50 - 200
13C5 PFPeA	96		50 - 200
13C3 PFBS	104		50 - 200
13C3 PFHxS	105		50 - 200
13C8 PFOS	105		50 - 200

QC Sample Results

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

Job ID: 380-136990-1
SDG: Weekly PFAS

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

Lab Sample ID: 380-136990-4 MS
Matrix: Water
Analysis Batch: 137410

Client Sample ID: KA'AMILO WELLS
Prep Type: Total/NA
Prep Batch: 137220

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>MS MS Qualifier</i>	<i>Limits</i>
13C2-4:2-FTS	138		50 - 200
13C2-6:2-FTS	128		50 - 200
13C2-8:2-FTS	112		50 - 200

Lab Sample ID: 380-136990-4 MSD
Matrix: Water
Analysis Batch: 137410

Client Sample ID: KA'AMILO WELLS
Prep Type: Total/NA
Prep Batch: 137220

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
11-Chloroeicosfluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		60.2	51.6		ng/L		86	70 - 130	4	30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		60.2	50.5		ng/L		84	70 - 130	2	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		60.2	51.6		ng/L		86	70 - 130	3	30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		60.2	55.8		ng/L		93	70 - 130	3	30
Perfluorobutanesulfonic acid (PFBS)	<2.0		60.2	60.3		ng/L		97	70 - 130	2	30
Perfluorodecanoic acid (PFDA)	<2.0		60.2	57.1		ng/L		95	70 - 130	2	30
Perfluorododecanoic acid (PFDoA)	<2.0		60.2	59.9		ng/L		99	70 - 130	8	30
Perfluoroheptanoic acid (PFHpA)	<2.0		60.2	57.7		ng/L		94	70 - 130	1	30
Perfluorohexanesulfonic acid (PFHxS)	2.3		60.2	56.1		ng/L		89	70 - 130	3	30
Perfluorohexanoic acid (PFHxA)	<2.0		60.2	58.5		ng/L		94	70 - 130	1	30
Perfluorononanoic acid (PFNA)	<2.0		60.2	58.8		ng/L		98	70 - 130	5	30
Perfluorooctanesulfonic acid (PFOS)	2.8		60.2	57.5		ng/L		91	70 - 130	2	30
Perfluorooctanoic acid (PFOA)	<2.0		60.2	55.2		ng/L		89	70 - 130	3	30
Perfluoroundecanoic acid (PFUnA)	<2.0		60.2	58.7		ng/L		97	70 - 130	4	30
Perfluorobutanoic acid (PFBA)	<2.0		60.2	57.1		ng/L		95	70 - 130	1	30
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		60.2	57.7		ng/L		96	70 - 130	4	30
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		60.2	58.8		ng/L		98	70 - 130	2	30
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		60.2	55.4		ng/L		92	70 - 130	1	30
Nonfluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		60.2	56.2		ng/L		93	70 - 130	17	30
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<2.0		60.2	50.8		ng/L		84	70 - 130	1	30
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		60.2	55.8		ng/L		93	70 - 130	1	30
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		60.2	56.7		ng/L		94	70 - 130	2	30
Perfluoropentanoic acid (PFPeA)	<2.0		60.2	58.4		ng/L		94	70 - 130	3	30
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		60.2	53.7		ng/L		89	70 - 130	3	30
Perfluoropentanesulfonic acid (PFPeS)	<2.0		60.2	52.7		ng/L		87	70 - 130	6	30

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QC Sample Results

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

Job ID: 380-136990-1
SDG: Weekly PFAS

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

Isotope Dilution	MSD MSD		Limits
	%Recovery	Qualifier	
13C3 HFPO-DA	85		50 - 200
13C6 PFDA	94		50 - 200
13C5 PFHxA	89		50 - 200
13C4 PFHpA	95		50 - 200
13C8 PFOA	94		50 - 200
13C9 PFNA	89		50 - 200
13C7 PFUnA	93		50 - 200
13C2 PFDoA	88		50 - 200
13C4 PFBA	88		50 - 200
13C5 PFPeA	92		50 - 200
13C3 PFBS	99		50 - 200
13C3 PFHxS	102		50 - 200
13C8 PFOS	100		50 - 200
13C2-4:2-FTS	140		50 - 200
13C2-6:2-FTS	127		50 - 200
13C2-8:2-FTS	108		50 - 200

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

Lab Sample ID: MBL 380-137257/20-A
Matrix: Water
Analysis Batch: 137445

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 137257

Analyte	MBL MBL		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<1.0		2.0	ng/L		02/23/25 15:21	02/24/25 11:54	1
Perfluorooctanesulfonic acid (PFOS)	<0.43		2.0	ng/L		02/23/25 15:21	02/24/25 11:54	1
Perfluoroundecanoic acid (PFUnA)	<0.42		2.0	ng/L		02/23/25 15:21	02/24/25 11:54	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.58		2.0	ng/L		02/23/25 15:21	02/24/25 11:54	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.42		2.0	ng/L		02/23/25 15:21	02/24/25 11:54	1
Perfluorohexanoic acid (PFHxA)	<0.46		2.0	ng/L		02/23/25 15:21	02/24/25 11:54	1
Perfluorododecanoic acid (PFDoA)	<0.54		2.0	ng/L		02/23/25 15:21	02/24/25 11:54	1
Perfluorooctanoic acid (PFOA)	<0.38		2.0	ng/L		02/23/25 15:21	02/24/25 11:54	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	ng/L		02/23/25 15:21	02/24/25 11:54	1
Perfluorohexanesulfonic acid (PFHxS)	<0.32		2.0	ng/L		02/23/25 15:21	02/24/25 11:54	1
Perfluorobutanesulfonic acid (PFBS)	<0.37		2.0	ng/L		02/23/25 15:21	02/24/25 11:54	1
Perfluoroheptanoic acid (PFHpA)	<0.39		2.0	ng/L		02/23/25 15:21	02/24/25 11:54	1
Perfluorononanoic acid (PFNA)	<0.40		2.0	ng/L		02/23/25 15:21	02/24/25 11:54	1
Perfluorotetradecanoic acid (PFTA)	<0.54		2.0	ng/L		02/23/25 15:21	02/24/25 11:54	1
Perfluorotridecanoic acid (PFTrDA)	<0.36		2.0	ng/L		02/23/25 15:21	02/24/25 11:54	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<0.30		2.0	ng/L		02/23/25 15:21	02/24/25 11:54	1
11-Chloroeicosfluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<0.30		2.0	ng/L		02/23/25 15:21	02/24/25 11:54	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.60		2.0	ng/L		02/23/25 15:21	02/24/25 11:54	1
Surrogate	MBL MBL		Limits			Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier						
d5-NEtFOSAA	102		70 - 130			02/23/25 15:21	02/24/25 11:54	1
13C2 PFHxA	104		70 - 130			02/23/25 15:21	02/24/25 11:54	1
13C2 PFDA	99		70 - 130			02/23/25 15:21	02/24/25 11:54	1

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-136990-1
SDG: Weekly PFAS

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

Lab Sample ID: MBL 380-137257/20-A
Matrix: Water
Analysis Batch: 137445

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 137257

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C3-GenX	100		70 - 130	02/23/25 15:21	02/24/25 11:54	1

Lab Sample ID: LCS 380-137257/22-A
Matrix: Water
Analysis Batch: 137445

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 137257

<i>Analyte</i>	<i>Spike Added</i>	<i>LCS Result</i>	<i>LCS Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>Limits</i>
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	50.3	49.3		ng/L		98	70 - 130
Perfluorooctanesulfonic acid (PFOS)	50.3	52.9		ng/L		105	70 - 130
Perfluoroundecanoic acid (PFUnA)	50.3	50.5		ng/L		100	70 - 130
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	50.3	50.9		ng/L		101	70 - 130
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	50.3	52.8		ng/L		105	70 - 130
Perfluorohexanoic acid (PFHxA)	50.3	52.4		ng/L		104	70 - 130
Perfluorododecanoic acid (PFDoA)	50.3	48.8		ng/L		97	70 - 130
Perfluorooctanoic acid (PFOA)	50.3	51.8		ng/L		103	70 - 130
Perfluorodecanoic acid (PFDA)	50.3	49.3		ng/L		98	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	50.3	53.9		ng/L		107	70 - 130
Perfluorobutanesulfonic acid (PFBS)	50.3	53.7		ng/L		107	70 - 130
Perfluoroheptanoic acid (PFHpA)	50.3	53.1		ng/L		106	70 - 130
Perfluorononanoic acid (PFNA)	50.3	51.2		ng/L		102	70 - 130
Perfluorotetradecanoic acid (PFTA)	50.3	40.3		ng/L		80	70 - 130
Perfluorotridecanoic acid (PFTrDA)	50.3	47.6		ng/L		95	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	50.3	51.0		ng/L		101	70 - 130
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	50.3	50.0		ng/L		99	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	50.3	51.3		ng/L		102	70 - 130

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
d5-NEtFOSAA	96		70 - 130
13C2 PFHxA	102		70 - 130
13C2 PFDA	98		70 - 130
13C3-GenX	96		70 - 130

QC Sample Results

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

Job ID: 380-136990-1
SDG: Weekly PFAS

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

Lab Sample ID: MRL 380-137257/21-A
Matrix: Water
Analysis Batch: 137445

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 137257

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	Limits
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	2.01	2.09	J	ng/L		104	50 - 150
Perfluorooctanesulfonic acid (PFOS)	2.01	2.22	J	ng/L		110	50 - 150
Perfluoroundecanoic acid (PFUnA)	2.01	2.18	J	ng/L		109	50 - 150
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.01	2.27	J	ng/L		113	50 - 150
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.01	2.44	J	ng/L		122	50 - 150
Perfluorohexanoic acid (PFHxA)	2.01	2.24	J	ng/L		112	50 - 150
Perfluorododecanoic acid (PFDoA)	2.01	2.14	J	ng/L		106	50 - 150
Perfluorooctanoic acid (PFOA)	2.01	2.16	J	ng/L		108	50 - 150
Perfluorodecanoic acid (PFDA)	2.01	2.09	J	ng/L		104	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	2.01	2.29	J	ng/L		114	50 - 150
Perfluorobutanesulfonic acid (PFBS)	2.01	2.15	J	ng/L		107	50 - 150
Perfluoroheptanoic acid (PFHpA)	2.01	2.28	J	ng/L		114	50 - 150
Perfluorononanoic acid (PFNA)	2.01	2.16	J	ng/L		107	50 - 150
Perfluorotetradecanoic acid (PFTA)	2.01	1.80	J	ng/L		89	50 - 150
Perfluorotridecanoic acid (PFTrDA)	2.01	2.17	J	ng/L		108	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	2.01	2.13	J	ng/L		106	50 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.01	1.99	J	ng/L		99	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	2.01	2.19	J	ng/L		109	50 - 150

Surrogate	MRL %Recovery	MRL Qualifier	Limits
d5-NEtFOSAA	106		70 - 130
13C2 PFHxA	104		70 - 130
13C2 PFDA	98		70 - 130
13C3-GenX	102		70 - 130

Lab Sample ID: 380-136903-B-1-A MS
Matrix: Water
Analysis Batch: 137445

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 137257

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		25.1	25.3		ng/L		101	70 - 130
Perfluorooctanesulfonic acid (PFOS)	<2.0		25.1	28.0		ng/L		112	70 - 130
Perfluoroundecanoic acid (PFUnA)	<2.0		25.1	26.6		ng/L		106	70 - 130
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		25.1	26.9		ng/L		107	70 - 130

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-136990-1
SDG: Weekly PFAS

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

Lab Sample ID: 380-136903-B-1-A MS

Matrix: Water

Analysis Batch: 137445

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 137257

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		25.1	27.6		ng/L		110	70 - 130
Perfluorohexanoic acid (PFHxA)	<2.0		25.1	28.2		ng/L		109	70 - 130
Perfluorododecanoic acid (PFDoA)	<2.0		25.1	25.7		ng/L		102	70 - 130
Perfluorooctanoic acid (PFOA)	<2.0		25.1	27.5		ng/L		109	70 - 130
Perfluorodecanoic acid (PFDA)	<2.0		25.1	26.3		ng/L		105	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	<2.0		25.1	28.5		ng/L		112	70 - 130
Perfluorobutanesulfonic acid (PFBS)	<2.0		25.1	27.3		ng/L		106	70 - 130
Perfluoroheptanoic acid (PFHpA)	<2.0		25.1	27.9		ng/L		111	70 - 130
Perfluorononanoic acid (PFNA)	<2.0		25.1	26.5		ng/L		105	70 - 130
Perfluorotetradecanoic acid (PFTA)	<2.0		25.1	25.0		ng/L		100	70 - 130
Perfluorotridecanoic acid (PFTTrDA)	<2.0		25.1	24.9		ng/L		99	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		25.1	26.9		ng/L		107	70 - 130
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid(11Cl-PF3OUdS)	<2.0		25.1	25.7		ng/L		102	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		25.1	25.9		ng/L		103	70 - 130
Surrogate				MS	MS				
				%Recovery	Qualifier				Limits
d5-NEtFOSAA				98					70 - 130
13C2 PFHxA				102					70 - 130
13C2 PFDA				93					70 - 130
13C3-GenX				93					70 - 130

Lab Sample ID: 380-136903-C-1-A MSD

Matrix: Water

Analysis Batch: 137445

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 137257

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		25.1	23.6		ng/L		94	70 - 130	7	30
Perfluorooctanesulfonic acid (PFOS)	<2.0		25.1	27.7		ng/L		110	70 - 130	1	30
Perfluoroundecanoic acid (PFUnA)	<2.0		25.1	25.3		ng/L		101	70 - 130	5	30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		25.1	25.2		ng/L		101	70 - 130	7	30
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		25.1	27.3		ng/L		109	70 - 130	1	30
Perfluorohexanoic acid (PFHxA)	<2.0		25.1	26.4		ng/L		102	70 - 130	7	30
Perfluorododecanoic acid (PFDoA)	<2.0		25.1	25.2		ng/L		101	70 - 130	2	30
Perfluorooctanoic acid (PFOA)	<2.0		25.1	26.5		ng/L		106	70 - 130	4	30
Perfluorodecanoic acid (PFDA)	<2.0		25.1	24.9		ng/L		99	70 - 130	5	30

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-136990-1
 SDG: Weekly PFAS

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

Lab Sample ID: 380-136903-C-1-A MSD
Matrix: Water
Analysis Batch: 137445

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 137257

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorohexanesulfonic acid (PFHxS)	<2.0		25.1	28.1		ng/L		111	70 - 130	1	30
Perfluorobutanesulfonic acid (PFBS)	<2.0		25.1	26.9		ng/L		105	70 - 130	1	30
Perfluoroheptanoic acid (PFHpA)	<2.0		25.1	27.1		ng/L		108	70 - 130	3	30
Perfluorononanoic acid (PFNA)	<2.0		25.1	25.6		ng/L		102	70 - 130	3	30
Perfluorotetradecanoic acid (PFTA)	<2.0		25.1	21.9		ng/L		88	70 - 130	13	30
Perfluorotridecanoic acid (PFTrDA)	<2.0		25.1	24.4		ng/L		98	70 - 130	2	30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		25.1	26.3		ng/L		105	70 - 130	2	30
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		25.1	24.9		ng/L		99	70 - 130	3	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		25.1	25.9		ng/L		104	70 - 130	0	30
Surrogate		MSD %Recovery	MSD Qualifier	Limits							
d5-NEtFOSAA		100		70 - 130							
13C2 PFHxA		99		70 - 130							
13C2 PFDA		93		70 - 130							
13C3-GenX		88		70 - 130							



QC Association Summary

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

Job ID: 380-136990-1
SDG: Weekly PFAS

LCMS

Prep Batch: 137220

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-136990-1	HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP01	Total/NA	Drinking Water	533	
380-136990-2	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	533	
380-136990-3	AIEA WELLS PUMPS 1&2 P2 (260) (331-203-TP	Total/NA	Drinking Water	533	
380-136990-4	KA'AMILO WELLS	Total/NA	Water	533	
380-136990-5	FB HALAWA WELLS UNITS 1 & 2 (331-206-TP01	Total/NA	Water	533	
380-136990-6	FB AIEA GULCH WELLS PUMP 2 (331-202-TP07	Total/NA	Water	533	
380-136990-7	FB AIEA WELLS PUMPS 1&2 (260) (331-203-TP	Total/NA	Water	533	
380-136990-8	FB KA'AMILO WELLS	Total/NA	Water	533	
MBL 380-137220/21-A	Method Blank	Total/NA	Water	533	
LCS 380-137220/23-A	Lab Control Sample	Total/NA	Water	533	
MRL 380-137220/22-A	Lab Control Sample	Total/NA	Water	533	
380-136990-4 MS	KA'AMILO WELLS	Total/NA	Water	533	
380-136990-4 MSD	KA'AMILO WELLS	Total/NA	Water	533	

Prep Batch: 137257

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-136990-1	HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP01	Total/NA	Drinking Water	537.1 DW	
380-136990-2	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	537.1 DW	
380-136990-3	AIEA WELLS PUMPS 1&2 P2 (260) (331-203-TP	Total/NA	Drinking Water	537.1 DW	
380-136990-4	KA'AMILO WELLS	Total/NA	Water	537.1 DW	
380-136990-5	FB HALAWA WELLS UNITS 1 & 2 (331-206-TP01	Total/NA	Water	537.1 DW	
380-136990-6	FB AIEA GULCH WELLS PUMP 2 (331-202-TP07	Total/NA	Water	537.1 DW	
380-136990-7	FB AIEA WELLS PUMPS 1&2 (260) (331-203-TP	Total/NA	Water	537.1 DW	
380-136990-8	FB KA'AMILO WELLS	Total/NA	Water	537.1 DW	
MBL 380-137257/20-A	Method Blank	Total/NA	Water	537.1 DW	
LCS 380-137257/22-A	Lab Control Sample	Total/NA	Water	537.1 DW	
MRL 380-137257/21-A	Lab Control Sample	Total/NA	Water	537.1 DW	
380-136903-B-1-A MS	Matrix Spike	Total/NA	Water	537.1 DW	
380-136903-C-1-A MSD	Matrix Spike Duplicate	Total/NA	Water	537.1 DW	

Analysis Batch: 137410

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-136990-4	KA'AMILO WELLS	Total/NA	Water	533	137220
MBL 380-137220/21-A	Method Blank	Total/NA	Water	533	137220
LCS 380-137220/23-A	Lab Control Sample	Total/NA	Water	533	137220
MRL 380-137220/22-A	Lab Control Sample	Total/NA	Water	533	137220
380-136990-4 MS	KA'AMILO WELLS	Total/NA	Water	533	137220
380-136990-4 MSD	KA'AMILO WELLS	Total/NA	Water	533	137220

Analysis Batch: 137445

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-136990-1	HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP01	Total/NA	Drinking Water	537.1	137257
380-136990-2	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	537.1	137257
380-136990-3	AIEA WELLS PUMPS 1&2 P2 (260) (331-203-TP	Total/NA	Drinking Water	537.1	137257
380-136990-4	KA'AMILO WELLS	Total/NA	Water	537.1	137257
380-136990-5	FB HALAWA WELLS UNITS 1 & 2 (331-206-TP01	Total/NA	Water	537.1	137257
380-136990-6	FB AIEA GULCH WELLS PUMP 2 (331-202-TP07	Total/NA	Water	537.1	137257
380-136990-7	FB AIEA WELLS PUMPS 1&2 (260) (331-203-TP	Total/NA	Water	537.1	137257
380-136990-8	FB KA'AMILO WELLS	Total/NA	Water	537.1	137257
MBL 380-137257/20-A	Method Blank	Total/NA	Water	537.1	137257
LCS 380-137257/22-A	Lab Control Sample	Total/NA	Water	537.1	137257

Eurofins Eaton Analytical Pomona

QC Association Summary

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

Job ID: 380-136990-1
SDG: Weekly PFAS

LCMS (Continued)

Analysis Batch: 137445 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MRL 380-137257/21-A	Lab Control Sample	Total/NA	Water	537.1	137257
380-136903-B-1-A MS	Matrix Spike	Total/NA	Water	537.1	137257
380-136903-C-1-A MSD	Matrix Spike Duplicate	Total/NA	Water	537.1	137257

Analysis Batch: 137698

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-136990-1	HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP01)	Total/NA	Drinking Water	533	137220
380-136990-2	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	533	137220
380-136990-3	AIEA WELLS PUMPS 1&2 P2 (260) (331-203-TP072)	Total/NA	Drinking Water	533	137220
380-136990-5	FB HALAWA WELLS UNITS 1 & 2 (331-206-TP01)	Total/NA	Water	533	137220
380-136990-6	FB AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Water	533	137220
380-136990-7	FB AIEA WELLS PUMPS 1&2 (260) (331-203-TP072)	Total/NA	Water	533	137220
380-136990-8	FB KA'AMILO WELLS	Total/NA	Water	533	137220

Lab Chronicle

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

Job ID: 380-136990-1
SDG: Weekly PFAS

**Client Sample ID: HALAWA WELLS UNITS 1 & 2 P1
(331-206-TP065)**

Lab Sample ID: 380-136990-1

Date Collected: 02/18/25 10:10

Matrix: Drinking Water

Date Received: 02/21/25 09:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			137220	E9PK	EA POM	02/22/25 20:56
Total/NA	Analysis	533		1	137698	SZ9R	EA POM	02/25/25 09:43
Total/NA	Prep	537.1 DW			137257	N8NE	EA POM	02/23/25 15:21
Total/NA	Analysis	537.1		1	137445	SZ9R	EA POM	02/24/25 14:36

**Client Sample ID: AIEA GULCH WELLS PUMP 2
(331-202-TP072)**

Lab Sample ID: 380-136990-2

Date Collected: 02/18/25 10:36

Matrix: Drinking Water

Date Received: 02/21/25 09:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			137220	E9PK	EA POM	02/22/25 20:56
Total/NA	Analysis	533		1	137698	SZ9R	EA POM	02/25/25 09:53
Total/NA	Prep	537.1 DW			137257	N8NE	EA POM	02/23/25 15:21
Total/NA	Analysis	537.1		1	137445	SZ9R	EA POM	02/24/25 14:46

**Client Sample ID: AIEA WELLS PUMPS 1&2 P2 (260)
(331-203-TP400)**

Lab Sample ID: 380-136990-3

Date Collected: 02/18/25 10:59

Matrix: Drinking Water

Date Received: 02/21/25 09:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			137220	E9PK	EA POM	02/22/25 20:56
Total/NA	Analysis	533		1	137698	SZ9R	EA POM	02/25/25 10:03
Total/NA	Prep	537.1 DW			137257	N8NE	EA POM	02/23/25 15:21
Total/NA	Analysis	537.1		1	137445	SZ9R	EA POM	02/24/25 14:55

Client Sample ID: KA'AMILO WELLS

Lab Sample ID: 380-136990-4

Date Collected: 02/18/25 11:31

Matrix: Water

Date Received: 02/21/25 09:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			137220	E9PK	EA POM	02/22/25 20:56
Total/NA	Analysis	533		1	137410	SZ9R	EA POM	02/24/25 22:05
Total/NA	Prep	537.1 DW			137257	N8NE	EA POM	02/23/25 15:21
Total/NA	Analysis	537.1		1	137445	SZ9R	EA POM	02/24/25 15:05

Lab Chronicle

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

Job ID: 380-136990-1
SDG: Weekly PFAS

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

Lab Sample ID: 380-136990-5

Date Collected: 02/18/25 10:10

Matrix: Water

Date Received: 02/21/25 09:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			137220	E9PK	EA POM	02/22/25 20:56
Total/NA	Analysis	533		1	137698	SZ9R	EA POM	02/25/25 10:12
Total/NA	Prep	537.1 DW			137257	N8NE	EA POM	02/23/25 15:21
Total/NA	Analysis	537.1		1	137445	SZ9R	EA POM	02/24/25 15:14

**Client Sample ID: FB AIEA GULCH WELLS PUMP 2
(331-202-TP072)**

Lab Sample ID: 380-136990-6

Date Collected: 02/18/25 10:36

Matrix: Water

Date Received: 02/21/25 09:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			137220	E9PK	EA POM	02/22/25 20:56
Total/NA	Analysis	533		1	137698	SZ9R	EA POM	02/25/25 10:22
Total/NA	Prep	537.1 DW			137257	N8NE	EA POM	02/23/25 15:21
Total/NA	Analysis	537.1		1	137445	SZ9R	EA POM	02/24/25 15:24

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

Lab Sample ID: 380-136990-7

Date Collected: 02/18/25 10:59

Matrix: Water

Date Received: 02/21/25 09:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			137220	E9PK	EA POM	02/22/25 20:56
Total/NA	Analysis	533		1	137698	SZ9R	EA POM	02/25/25 10:32
Total/NA	Prep	537.1 DW			137257	N8NE	EA POM	02/23/25 15:21
Total/NA	Analysis	537.1		1	137445	SZ9R	EA POM	02/24/25 15:34

Client Sample ID: FB KA'AMILO WELLS

Lab Sample ID: 380-136990-8

Date Collected: 02/18/25 11:31

Matrix: Water

Date Received: 02/21/25 09:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			137220	E9PK	EA POM	02/22/25 20:56
Total/NA	Analysis	533		1	137698	SZ9R	EA POM	02/25/25 10:41
Total/NA	Prep	537.1 DW			137257	N8NE	EA POM	02/23/25 15:21
Total/NA	Analysis	537.1		1	137445	SZ9R	EA POM	02/24/25 15:43

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: 380-136990-1
SDG: Weekly PFAS

Laboratory: Eurofins Eaton Analytical Pomona

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Hawaii	State	CA00006	01-31-25 *

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

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

Method Summary

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

Job ID: 380-136990-1
SDG: Weekly PFAS

Method	Method Description	Protocol	Laboratory
533	Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water	EPA	EA POM
537.1	Perfluorinated Alkyl Acids (LC/MS)	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: 380-136990-1
SDG: Weekly PFAS

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
380-136990-1	HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP065)	Drinking Water	02/18/25 10:10	02/21/25 09:34
380-136990-2	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Drinking Water	02/18/25 10:36	02/21/25 09:34
380-136990-3	AIEA WELLS PUMPS 1&2 P2 (260) (331-203-TP400)	Drinking Water	02/18/25 10:59	02/21/25 09:34
380-136990-4	KA'AMILO WELLS	Water	02/18/25 11:31	02/21/25 09:34
380-136990-5	FB HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	Water	02/18/25 10:10	02/21/25 09:34
380-136990-6	FB AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Water	02/18/25 10:36	02/21/25 09:34
380-136990-7	FB AIEA WELLS PUMPS 1&2 (260) (331-203-TP400)	Water	02/18/25 10:59	02/21/25 09:34
380-136990-8	FB KA'AMILO WELLS	Water	02/18/25 11:31	02/21/25 09:34



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

Chain of Custody Record



Client Information
 Lab PM: Arada Rachelle
 Sampler: bailey
 Phone: +1 808 748 5840
 E-Mail: Rachelle.Arada@et.eurofins.com
 City & County of Honolulu
 Address: 630 South Beretania Street, Chemistry Lab, Honolulu, HI 96843
 Phone: 808-748-5840 (tel)
 Email: kiramoto@hbws.org
 Project Name: RED-HILL/HBWS sites Event Desc: RUSH Weekly Red Hill
 Site:

Due Date Requested: TAT Requested (days)
 Compliance Project: Δ No
 PO #: C20525101 exp 05312023
 WO #: 38001111
 Project #: 38001111
 SSOW#:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wastewat, AT=tissue, A=air)	Preservation Code:	Field Filtered Sample (Yes or No)	Perform M/MSD (Yes or No)	SUBCONTRACT - 626 PAH Physis LL (EAL) + TICs	8015B_GRO_LL (MOD) GRO	C18	525 2_PREC - (MOD) 525plus PLUS TICs	537 1_DW_PREC 537 1 Full List	533 All Analytes	Total Number of Containers	Special Instructions/Note.
HALAWA WELLS UNITS 1&2 P1	18-Feb-2025	1010	G	Water											
AIEA GULCH WELLS PUMP 2	18-Feb-2025	1036	G	Water											chlorinated
AIEA WELLS PUMPS 1&2 (260) P2	18-Feb-2025	1059	G	Water											
KA'AMILO WELLS	18-Feb-2025	1131	G	Water											chlorinated
FB HALAWA WELLS UNITS 1&2	18-Feb-2025	1010													
FB AIEA GULCH WELLS PUMP 2	18-Feb-2025	1036													
FB AIEA WELLS PUMPS 1&2 (260)	18-Feb-2025	1059													
FB KA'AMILO WELLS	18-Feb-2025	1131													

Analysis Requested: 380-136990 COC
 Preservation Codes:
 A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, Other:

Special Instructions/Note:
 chlorinated
 chlorinated

Carrier Tracking No(s): 380-27941-2757 2
 State of Origin: Page 2 of 2
 Job #:

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months
 Special Instructions/QC Requirements:

Received by: *[Signature]* Date/Time: 02/21/25 09:34
 Received by: *[Signature]* Date/Time: 02/21/25 09:34
 Received by: _____ Date/Time: _____
 Company: HBWS
 Company: HBWS
 Company:

Date: 19 February 2025
 Date: 02/21/25 09:34
 Date:

Possible Hazard Identification: Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological
 Deliverable Requested I II III IV Other (specify):

Empty Kit Relinquished by: _____ Date: _____
 Relinquished by: _____ Date/Time: _____
 Custody Seal Intact: Δ Yes Δ No
 Custody Seal No: _____



Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-136990-1

SDG Number: Weekly PFAS

Login Number: 136990

List Number: 1

Creator: Hernandez, Orlando

List Source: Eurofins Eaton Analytical Pomona

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

