

ANALYTICAL REPORT

PREPARED FOR

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JOB DESCRIPTION

RED-HILL
PFAS: Moanalua Wells, Halawa Wells, Aiea Gulch Wells P1/P2, Aiea Wells Pumps 1&2
RUSH Weekly Red Hill

JOB NUMBER

380-168247-1

Eurofins Eaton Analytical Pomona

Job Notes

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

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

Compliance Statement

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

Authorization



Authorized for release by
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Definitions/Glossary

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

Job ID: 380-168247-1
SDG: PFAS: Moanalua Wells, Halawa Wells, Aiea Gulch Wells
P1/P2, Aiea Wells Pumps 1&2

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: 380-168247-1

Job ID: 380-168247-1

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Job Narrative 380-168247-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt

The samples were received on 8/27/2025 10:04 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.1°C.

PFAS

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

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Detection Summary

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

Job ID: 380-168247-1
SDG: PFAS: Moanalua Wells, Halawa Wells, Aiea Gulch Wells
P1/P2, Aiea Wells Pumps 1&2

Client Sample ID: MOANALUA WELLS (331-223-TP202)

Lab Sample ID: 380-168247-1

PWSID Number: HI0000331

No Detections.

Client Sample ID: HALAWA WELLS UNITS 1 & 2 P1

Lab Sample ID: 380-168247-2

(331-206-TP065)

PWSID Number: HI0000331

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

Lab Sample ID: 380-168247-3

(331-201-TP071)

PWSID Number: HI0000331

No Detections.

Client Sample ID: AIEA GULCH WELLS PUMP 2

Lab Sample ID: 380-168247-4

(331-202-TP072)

PWSID Number: HI0000331

No Detections.

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

Lab Sample ID: 380-168247-5

(331-203-TP400)

PWSID Number: HI0000331

No Detections.

Client Sample ID: FB: MOANALUA WELLS (331-223-TP202)

Lab Sample ID: 380-168247-6

PWSID Number: HI0000331

No Detections.

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

Lab Sample ID: 380-168247-7

(331-206-TP065)

PWSID Number: HI0000331

No Detections.

Client Sample ID: FB: AIEA GULCH WELLS PUMP 1

Lab Sample ID: 380-168247-8

(331-201-TP071)

PWSID Number: HI0000331

No Detections.

This Detection Summary does not include radiochemical test results.

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Detection Summary

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

Job ID: 380-168247-1
SDG: PFAS: Moanalua Wells, Halawa Wells, Aiea Gulch Wells
P1/P2, Aiea Wells Pumps 1&2

Client Sample ID: FB: AIEA GULCH WELLS PUMP 2
(331-202-TP072)
PWSID Number: HI0000331

Lab Sample ID: 380-168247-9

☐ No Detections.

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

Lab Sample ID: 380-168247-10

☐ 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: 380-168247-1
SDG: PFAS: Moanalua Wells, Halawa Wells, Aiea Gulch Wells
P1/P2, Aiea Wells Pumps 1&2

Client Sample ID: MOANALUA WELLS (331-223-TP202)

Lab Sample ID: 380-168247-1

Date Collected: 08/25/25 10:30

Matrix: Drinking Water

Date Received: 08/27/25 10:04

PWSID Number: HI0000331

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		08/28/25 07:24	08/29/25 12:29	1
9-Chlorohexadecafluoro-3-oxanonane-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 12:29	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 12:29	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 12:29	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 12:29	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 12:29	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 12:29	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 12:29	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 12:29	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 12:29	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 12:29	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 12:29	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 12:29	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 12:29	1
Perfluorobutanoic acid (PFBA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 12:29	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 12:29	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 12:29	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 12:29	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 12:29	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 12:29	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 12:29	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 12:29	1
Perfluoropentanoic acid (PFPeA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 12:29	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 12:29	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 12:29	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	116		50 - 200	08/28/25 07:24	08/29/25 12:29	1
13C6 PFDA	114		50 - 200	08/28/25 07:24	08/29/25 12:29	1
13C5 PFHxA	108		50 - 200	08/28/25 07:24	08/29/25 12:29	1
13C4 PFHpA	105		50 - 200	08/28/25 07:24	08/29/25 12:29	1
13C8 PFOA	112		50 - 200	08/28/25 07:24	08/29/25 12:29	1
13C9 PFNA	107		50 - 200	08/28/25 07:24	08/29/25 12:29	1
13C7 PFUnA	112		50 - 200	08/28/25 07:24	08/29/25 12:29	1
13C2 PFDoA	115		50 - 200	08/28/25 07:24	08/29/25 12:29	1
13C4 PFBA	115		50 - 200	08/28/25 07:24	08/29/25 12:29	1
13C5 PFPeA	112		50 - 200	08/28/25 07:24	08/29/25 12:29	1
13C3 PFBS	116		50 - 200	08/28/25 07:24	08/29/25 12:29	1
13C3 PFHxS	109		50 - 200	08/28/25 07:24	08/29/25 12:29	1
13C8 PFOS	115		50 - 200	08/28/25 07:24	08/29/25 12:29	1
13C2-4:2-FTS	94		50 - 200	08/28/25 07:24	08/29/25 12:29	1
13C2-6:2-FTS	97		50 - 200	08/28/25 07:24	08/29/25 12:29	1
13C2-8:2-FTS	100		50 - 200	08/28/25 07:24	08/29/25 12:29	1

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Client Sample Results

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

Job ID: 380-168247-1
SDG: PFAS: Moanalua Wells, Halawa Wells, Aiea Gulch Wells
P1/P2, Aiea Wells Pumps 1&2

Client Sample ID: MOANALUA WELLS (331-223-TP202)

Lab Sample ID: 380-168247-1

Date Collected: 08/25/25 10:30

Matrix: Drinking Water

Date Received: 08/27/25 10:04

PWSID Number: HI0000331

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		08/28/25 02:13	08/28/25 19:11	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 19:11	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 19:11	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 19:11	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 19:11	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 19:11	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 19:11	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 19:11	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 19:11	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 19:11	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 19:11	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 19:11	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 19:11	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 19:11	1
Perfluorotridecanoic acid (PFTrDA)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 19:11	1
9-Chlorohexadecafluoro-3-oxanonane-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 19:11	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 19:11	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 19:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	99		70 - 130	08/28/25 02:13	08/28/25 19:11	1
13C2 PFHxA	108		70 - 130	08/28/25 02:13	08/28/25 19:11	1
13C2 PFDA	113		70 - 130	08/28/25 02:13	08/28/25 19:11	1
13C3-GenX	105		70 - 130	08/28/25 02:13	08/28/25 19:11	1

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

Lab Sample ID: 380-168247-2

Date Collected: 08/25/25 11:03

Matrix: Drinking Water

Date Received: 08/27/25 10:04

PWSID Number: HI0000331

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		08/28/25 07:24	08/29/25 12:39	1
9-Chlorohexadecafluoro-3-oxanonane-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 12:39	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 12:39	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 12:39	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 12:39	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 12:39	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 12:39	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 12:39	1
Perfluorohexanesulfonic acid (PFHxS)	2.4		2.0	ng/L		08/28/25 07:24	08/29/25 12:39	1
Perfluorohexanoic acid (PFHxA)	2.0		2.0	ng/L		08/28/25 07:24	08/29/25 12:39	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-168247-1
SDG: PFAS: Moanalua Wells, Halawa Wells, Aiea Gulch Wells
P1/P2, Aiea Wells Pumps 1&2

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

Lab Sample ID: 380-168247-2

Date Collected: 08/25/25 11:03

Matrix: Drinking Water

Date Received: 08/27/25 10:04

PWSID Number: HI0000331

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		08/28/25 07:24	08/29/25 12:39	1
Perfluorooctanesulfonic acid (PFOS)	2.3		2.0	ng/L		08/28/25 07:24	08/29/25 12:39	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 12:39	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 12:39	1
Perfluorobutanoic acid (PFBA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 12:39	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 12:39	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 12:39	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 12:39	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 12:39	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 12:39	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 12:39	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 12:39	1
Perfluoropentanoic acid (PFPeA)	2.2		2.0	ng/L		08/28/25 07:24	08/29/25 12:39	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 12:39	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 12:39	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	117		50 - 200	08/28/25 07:24	08/29/25 12:39	1
13C6 PFDA	115		50 - 200	08/28/25 07:24	08/29/25 12:39	1
13C5 PFHxA	106		50 - 200	08/28/25 07:24	08/29/25 12:39	1
13C4 PFHpA	102		50 - 200	08/28/25 07:24	08/29/25 12:39	1
13C8 PFOA	113		50 - 200	08/28/25 07:24	08/29/25 12:39	1
13C9 PFNA	107		50 - 200	08/28/25 07:24	08/29/25 12:39	1
13C7 PFUnA	114		50 - 200	08/28/25 07:24	08/29/25 12:39	1
13C2 PFDoA	115		50 - 200	08/28/25 07:24	08/29/25 12:39	1
13C4 PFBA	114		50 - 200	08/28/25 07:24	08/29/25 12:39	1
13C5 PFPeA	115		50 - 200	08/28/25 07:24	08/29/25 12:39	1
13C3 PFBS	111		50 - 200	08/28/25 07:24	08/29/25 12:39	1
13C3 PFHxS	108		50 - 200	08/28/25 07:24	08/29/25 12:39	1
13C8 PFOS	112		50 - 200	08/28/25 07:24	08/29/25 12:39	1
13C2-4:2-FTS	94		50 - 200	08/28/25 07:24	08/29/25 12:39	1
13C2-6:2-FTS	98		50 - 200	08/28/25 07:24	08/29/25 12:39	1
13C2-8:2-FTS	100		50 - 200	08/28/25 07:24	08/29/25 12:39	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		08/28/25 02:13	08/28/25 19:20	1
Perfluorooctanesulfonic acid (PFOS)	2.4		2.0	ng/L		08/28/25 02:13	08/28/25 19:20	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 19:20	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 19:20	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 19:20	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-168247-1
SDG: PFAS: Moanalua Wells, Halawa Wells, Aiea Gulch Wells
P1/P2, Aiea Wells Pumps 1&2

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

Lab Sample ID: 380-168247-2

Date Collected: 08/25/25 11:03
Date Received: 08/27/25 10:04

Matrix: Drinking Water
PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	2.0		2.0	ng/L		08/28/25 02:13	08/28/25 19:20	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 19:20	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 19:20	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 19:20	1
Perfluorohexanesulfonic acid (PFHxS)	2.6		2.0	ng/L		08/28/25 02:13	08/28/25 19:20	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 19:20	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 19:20	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 19:20	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 19:20	1
Perfluorotridecanoic acid (PFTrDA)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 19:20	1
9-Chlorohexadecafluoro-3-oxanonane-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 19:20	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 19:20	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 19:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	110		70 - 130			08/28/25 02:13	08/28/25 19:20	1
13C2 PFHxA	103		70 - 130			08/28/25 02:13	08/28/25 19:20	1
13C2 PFDA	108		70 - 130			08/28/25 02:13	08/28/25 19:20	1
13C3-GenX	106		70 - 130			08/28/25 02:13	08/28/25 19:20	1

**Client Sample ID: AIEA GULCH WELLS PUMP 1
(331-201-TP071)**

Lab Sample ID: 380-168247-3

Date Collected: 08/25/25 11:32
Date Received: 08/27/25 10:04

Matrix: Drinking Water
PWSID Number: HI0000331

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		08/28/25 07:24	08/29/25 12:50	1
9-Chlorohexadecafluoro-3-oxanonane-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 12:50	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 12:50	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 12:50	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 12:50	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 12:50	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 12:50	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 12:50	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 12:50	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 12:50	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 12:50	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 12:50	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 12:50	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 12:50	1
Perfluorobutanoic acid (PFBA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 12:50	1

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Client Sample Results

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

Job ID: 380-168247-1
SDG: PFAS: Moanalua Wells, Halawa Wells, Aiea Gulch Wells
P1/P2, Aiea Wells Pumps 1&2

**Client Sample ID: AIEA GULCH WELLS PUMP 1
(331-201-TP071)**

Lab Sample ID: 380-168247-3

Date Collected: 08/25/25 11:32
Date Received: 08/27/25 10:04

Matrix: Drinking Water
PWSID Number: HI0000331

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		08/28/25 07:24	08/29/25 12:50	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 12:50	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 12:50	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 12:50	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 12:50	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 12:50	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 12:50	1
Perfluoropentanoic acid (PFPeA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 12:50	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 12:50	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 12:50	1
Isotope Dilution	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	117		50 - 200			08/28/25 07:24	08/29/25 12:50	1
13C6 PFDA	111		50 - 200			08/28/25 07:24	08/29/25 12:50	1
13C5 PFHxA	105		50 - 200			08/28/25 07:24	08/29/25 12:50	1
13C4 PFHpA	108		50 - 200			08/28/25 07:24	08/29/25 12:50	1
13C8 PFOA	109		50 - 200			08/28/25 07:24	08/29/25 12:50	1
13C9 PFNA	110		50 - 200			08/28/25 07:24	08/29/25 12:50	1
13C7 PFUnA	117		50 - 200			08/28/25 07:24	08/29/25 12:50	1
13C2 PFDoA	120		50 - 200			08/28/25 07:24	08/29/25 12:50	1
13C4 PFBA	111		50 - 200			08/28/25 07:24	08/29/25 12:50	1
13C5 PFPeA	112		50 - 200			08/28/25 07:24	08/29/25 12:50	1
13C3 PFBS	109		50 - 200			08/28/25 07:24	08/29/25 12:50	1
13C3 PFHxS	105		50 - 200			08/28/25 07:24	08/29/25 12:50	1
13C8 PFOS	112		50 - 200			08/28/25 07:24	08/29/25 12:50	1
13C2-4:2-FTS	94		50 - 200			08/28/25 07:24	08/29/25 12:50	1
13C2-6:2-FTS	94		50 - 200			08/28/25 07:24	08/29/25 12:50	1
13C2-8:2-FTS	95		50 - 200			08/28/25 07:24	08/29/25 12:50	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 19:30	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 19:30	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 19:30	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 19:30	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 19:30	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 19:30	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 19:30	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 19:30	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 19:30	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 19:30	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 19:30	1

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Client Sample Results

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

Job ID: 380-168247-1
SDG: PFAS: Moanalua Wells, Halawa Wells, Aiea Gulch Wells
P1/P2, Aiea Wells Pumps 1&2

Client Sample ID: AIEA GULCH WELLS PUMP 1
(331-201-TP071)

Lab Sample ID: 380-168247-3

Date Collected: 08/25/25 11:32
Date Received: 08/27/25 10:04

Matrix: Drinking Water
PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 19:30	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 19:30	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 19:30	1
Perfluorotridecanoic acid (PFTrDA)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 19:30	1
9-Chlorohexadecafluoro-3-oxanonane- -sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 19:30	1
11-Chloroeicosafluoro-3-oxaundecane- 1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 19:30	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 19:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	103		70 - 130			08/28/25 02:13	08/28/25 19:30	1
13C2 PFHxA	104		70 - 130			08/28/25 02:13	08/28/25 19:30	1
13C2 PFDA	106		70 - 130			08/28/25 02:13	08/28/25 19:30	1
13C3-GenX	100		70 - 130			08/28/25 02:13	08/28/25 19:30	1

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

Lab Sample ID: 380-168247-4

Date Collected: 08/25/25 11:50
Date Received: 08/27/25 10:04

Matrix: Drinking Water
PWSID Number: HI0000331

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		08/28/25 07:24	08/29/25 13:01	1
9-Chlorohexadecafluoro-3-oxanonane- -sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 13:01	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 13:01	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 13:01	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 13:01	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 13:01	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 13:01	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 13:01	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 13:01	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 13:01	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 13:01	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 13:01	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 13:01	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 13:01	1
Perfluorobutanoic acid (PFBA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 13:01	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 13:01	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 13:01	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 13:01	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 13:01	1
Perfluoro (2-ethoxyethane) sulfonic aci (PFEEA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 13:01	1

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Client Sample Results

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

Job ID: 380-168247-1
SDG: PFAS: Moanalua Wells, Halawa Wells, Aiea Gulch Wells
P1/P2, Aiea Wells Pumps 1&2

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

Lab Sample ID: 380-168247-4

Date Collected: 08/25/25 11:50
Date Received: 08/27/25 10:04

Matrix: Drinking Water
PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 13:01	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 13:01	1
Perfluoropentanoic acid (PFPeA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 13:01	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 13:01	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 13:01	1
Isotope Dilution	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	116		50 - 200			08/28/25 07:24	08/29/25 13:01	1
13C6 PFDA	113		50 - 200			08/28/25 07:24	08/29/25 13:01	1
13C5 PFHxA	112		50 - 200			08/28/25 07:24	08/29/25 13:01	1
13C4 PFHpA	107		50 - 200			08/28/25 07:24	08/29/25 13:01	1
13C8 PFOA	111		50 - 200			08/28/25 07:24	08/29/25 13:01	1
13C9 PFNA	112		50 - 200			08/28/25 07:24	08/29/25 13:01	1
13C7 PFUnA	114		50 - 200			08/28/25 07:24	08/29/25 13:01	1
13C2 PFDoA	119		50 - 200			08/28/25 07:24	08/29/25 13:01	1
13C4 PFBA	114		50 - 200			08/28/25 07:24	08/29/25 13:01	1
13C5 PFPeA	110		50 - 200			08/28/25 07:24	08/29/25 13:01	1
13C3 PFBS	112		50 - 200			08/28/25 07:24	08/29/25 13:01	1
13C3 PFHxS	109		50 - 200			08/28/25 07:24	08/29/25 13:01	1
13C8 PFOS	114		50 - 200			08/28/25 07:24	08/29/25 13:01	1
13C2-4:2-FTS	94		50 - 200			08/28/25 07:24	08/29/25 13:01	1
13C2-6:2-FTS	103		50 - 200			08/28/25 07:24	08/29/25 13:01	1
13C2-8:2-FTS	99		50 - 200			08/28/25 07:24	08/29/25 13:01	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		08/28/25 02:13	08/28/25 19:49	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 19:49	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 19:49	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 19:49	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 19:49	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 19:49	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 19:49	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 19:49	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 19:49	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 19:49	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 19:49	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 19:49	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 19:49	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 19:49	1
Perfluorotridecanoic acid (PFTrDA)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 19:49	1
9-Chlorohexadecafluoro-3-oxanonane-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 19:49	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUDS)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 19:49	1

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Client Sample Results

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

Job ID: 380-168247-1
SDG: PFAS: Moanalua Wells, Halawa Wells, Aiea Gulch Wells
P1/P2, Aiea Wells Pumps 1&2

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

Lab Sample ID: 380-168247-4

Date Collected: 08/25/25 11:50
Date Received: 08/27/25 10:04

Matrix: Drinking Water
PWSID Number: HI0000331

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		08/28/25 02:13	08/28/25 19:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	94		70 - 130			08/28/25 02:13	08/28/25 19:49	1
13C2 PFHxA	103		70 - 130			08/28/25 02:13	08/28/25 19:49	1
13C2 PFDA	103		70 - 130			08/28/25 02:13	08/28/25 19:49	1
13C3-GenX	98		70 - 130			08/28/25 02:13	08/28/25 19:49	1

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

Lab Sample ID: 380-168247-5

Date Collected: 08/25/25 12:16
Date Received: 08/27/25 10:04

Matrix: Drinking Water
PWSID Number: HI0000331

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		08/28/25 07:24	08/29/25 13:11	1
9-Chlorohexadecafluoro-3-oxanonane-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 13:11	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 13:11	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 13:11	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 13:11	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 13:11	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 13:11	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 13:11	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 13:11	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 13:11	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 13:11	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 13:11	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 13:11	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 13:11	1
Perfluorobutanoic acid (PFBA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 13:11	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 13:11	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 13:11	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 13:11	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 13:11	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 13:11	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 13:11	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 13:11	1
Perfluoropentanoic acid (PFPeA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 13:11	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 13:11	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 13:11	1

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Client Sample Results

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

Job ID: 380-168247-1
SDG: PFAS: Moanalua Wells, Halawa Wells, Aiea Gulch Wells
P1/P2, Aiea Wells Pumps 1&2

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

Lab Sample ID: 380-168247-5

**Date Collected: 08/25/25 12:16
Date Received: 08/27/25 10:04**

**Matrix: Drinking Water
PWSID Number: HI0000331**

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	120		50 - 200	08/28/25 07:24	08/29/25 13:11	1
13C6 PFDA	117		50 - 200	08/28/25 07:24	08/29/25 13:11	1
13C5 PFHxA	108		50 - 200	08/28/25 07:24	08/29/25 13:11	1
13C4 PFHpA	108		50 - 200	08/28/25 07:24	08/29/25 13:11	1
13C8 PFOA	114		50 - 200	08/28/25 07:24	08/29/25 13:11	1
13C9 PFNA	113		50 - 200	08/28/25 07:24	08/29/25 13:11	1
13C7 PFUnA	116		50 - 200	08/28/25 07:24	08/29/25 13:11	1
13C2 PFDoA	121		50 - 200	08/28/25 07:24	08/29/25 13:11	1
13C4 PFBA	118		50 - 200	08/28/25 07:24	08/29/25 13:11	1
13C5 PFPeA	117		50 - 200	08/28/25 07:24	08/29/25 13:11	1
13C3 PFBS	116		50 - 200	08/28/25 07:24	08/29/25 13:11	1
13C3 PFHxS	111		50 - 200	08/28/25 07:24	08/29/25 13:11	1
13C8 PFOS	118		50 - 200	08/28/25 07:24	08/29/25 13:11	1
13C2-4:2-FTS	99		50 - 200	08/28/25 07:24	08/29/25 13:11	1
13C2-6:2-FTS	101		50 - 200	08/28/25 07:24	08/29/25 13:11	1
13C2-8:2-FTS	100		50 - 200	08/28/25 07:24	08/29/25 13:11	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		08/28/25 02:13	08/28/25 19:59	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 19:59	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 19:59	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 19:59	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 19:59	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 19:59	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 19:59	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 19:59	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 19:59	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 19:59	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 19:59	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 19:59	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 19:59	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 19:59	1
Perfluorotridecanoic acid (PFTTrDA)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 19:59	1
9-Chlorohexadecafluoro-3-oxanonane-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 19:59	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 19:59	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 19:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	107		70 - 130			08/28/25 02:13	08/28/25 19:59	1
13C2 PFHxA	111		70 - 130			08/28/25 02:13	08/28/25 19:59	1
13C2 PFDA	108		70 - 130			08/28/25 02:13	08/28/25 19:59	1
13C3-GenX	106		70 - 130			08/28/25 02:13	08/28/25 19:59	1

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Client Sample Results

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

Job ID: 380-168247-1
SDG: PFAS: Moanalua Wells, Halawa Wells, Aiea Gulch Wells
P1/P2, Aiea Wells Pumps 1&2

Client Sample ID: FB: MOANALUA WELLS (331-223-TP202)

Lab Sample ID: 380-168247-6

Date Collected: 08/25/25 10:30

Matrix: Water

Date Received: 08/27/25 10:04

PWSID Number: HI0000331

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		08/28/25 07:24	08/29/25 13:22	1
9-Chlorohexadecafluoro-3-oxanonane-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 13:22	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 13:22	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 13:22	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 13:22	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 13:22	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 13:22	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 13:22	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 13:22	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 13:22	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 13:22	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 13:22	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 13:22	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 13:22	1
Perfluorobutanoic acid (PFBA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 13:22	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 13:22	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 13:22	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 13:22	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 13:22	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 13:22	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 13:22	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 13:22	1
Perfluoropentanoic acid (PFPeA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 13:22	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 13:22	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 13:22	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	116		50 - 200	08/28/25 07:24	08/29/25 13:22	1
13C6 PFDA	117		50 - 200	08/28/25 07:24	08/29/25 13:22	1
13C5 PFHxA	111		50 - 200	08/28/25 07:24	08/29/25 13:22	1
13C4 PFHpA	112		50 - 200	08/28/25 07:24	08/29/25 13:22	1
13C8 PFOA	115		50 - 200	08/28/25 07:24	08/29/25 13:22	1
13C9 PFNA	111		50 - 200	08/28/25 07:24	08/29/25 13:22	1
13C7 PFUnA	116		50 - 200	08/28/25 07:24	08/29/25 13:22	1
13C2 PFDoA	118		50 - 200	08/28/25 07:24	08/29/25 13:22	1
13C4 PFBA	113		50 - 200	08/28/25 07:24	08/29/25 13:22	1
13C5 PFPeA	108		50 - 200	08/28/25 07:24	08/29/25 13:22	1
13C3 PFBS	118		50 - 200	08/28/25 07:24	08/29/25 13:22	1
13C3 PFHxS	111		50 - 200	08/28/25 07:24	08/29/25 13:22	1
13C8 PFOS	116		50 - 200	08/28/25 07:24	08/29/25 13:22	1
13C2-4:2-FTS	96		50 - 200	08/28/25 07:24	08/29/25 13:22	1
13C2-6:2-FTS	94		50 - 200	08/28/25 07:24	08/29/25 13:22	1
13C2-8:2-FTS	99		50 - 200	08/28/25 07:24	08/29/25 13:22	1

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Client Sample Results

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

Job ID: 380-168247-1
SDG: PFAS: Moanalua Wells, Halawa Wells, Aiea Gulch Wells
P1/P2, Aiea Wells Pumps 1&2

Client Sample ID: FB: MOANALUA WELLS (331-223-TP202)

Lab Sample ID: 380-168247-6

Date Collected: 08/25/25 10:30

Matrix: Water

Date Received: 08/27/25 10:04

PWSID Number: HI0000331

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		08/28/25 02:13	08/28/25 20:08	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 20:08	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 20:08	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 20:08	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 20:08	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 20:08	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 20:08	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 20:08	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 20:08	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 20:08	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 20:08	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 20:08	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 20:08	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 20:08	1
Perfluorotridecanoic acid (PFTrDA)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 20:08	1
9-Chlorohexadecafluoro-3-oxanonane-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 20:08	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 20:08	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 20:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	108		70 - 130	08/28/25 02:13	08/28/25 20:08	1
13C2 PFHxA	105		70 - 130	08/28/25 02:13	08/28/25 20:08	1
13C2 PFDA	111		70 - 130	08/28/25 02:13	08/28/25 20:08	1
13C3-GenX	106		70 - 130	08/28/25 02:13	08/28/25 20:08	1

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

Lab Sample ID: 380-168247-7

Date Collected: 08/25/25 11:03

Matrix: Water

Date Received: 08/27/25 10:04

PWSID Number: HI0000331

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		08/28/25 07:24	08/29/25 13:33	1
9-Chlorohexadecafluoro-3-oxanonane-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 13:33	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 13:33	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 13:33	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 13:33	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 13:33	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 13:33	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 13:33	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 13:33	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 13:33	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 13:33	1

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Client Sample Results

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

Job ID: 380-168247-1
SDG: PFAS: Moanalua Wells, Halawa Wells, Aiea Gulch Wells
P1/P2, Aiea Wells Pumps 1&2

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

Lab Sample ID: 380-168247-7

**Date Collected: 08/25/25 11:03
Date Received: 08/27/25 10:04**

**Matrix: Water
PWSID Number: HI0000331**

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 13:33	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 13:33	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 13:33	1
Perfluorobutanoic acid (PFBA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 13:33	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 13:33	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 13:33	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 13:33	1
Nonfluoro-3,6-dioxahexanoic acid (NFDHA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 13:33	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 13:33	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 13:33	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 13:33	1
Perfluoropentanoic acid (PFPeA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 13:33	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 13:33	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 13:33	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	111		50 - 200	08/28/25 07:24	08/29/25 13:33	1
13C6 PFDA	114		50 - 200	08/28/25 07:24	08/29/25 13:33	1
13C5 PFHxA	110		50 - 200	08/28/25 07:24	08/29/25 13:33	1
13C4 PFHpA	107		50 - 200	08/28/25 07:24	08/29/25 13:33	1
13C8 PFOA	111		50 - 200	08/28/25 07:24	08/29/25 13:33	1
13C9 PFNA	109		50 - 200	08/28/25 07:24	08/29/25 13:33	1
13C7 PFUnA	110		50 - 200	08/28/25 07:24	08/29/25 13:33	1
13C2 PFDoA	117		50 - 200	08/28/25 07:24	08/29/25 13:33	1
13C4 PFBA	112		50 - 200	08/28/25 07:24	08/29/25 13:33	1
13C5 PFPeA	111		50 - 200	08/28/25 07:24	08/29/25 13:33	1
13C3 PFBS	113		50 - 200	08/28/25 07:24	08/29/25 13:33	1
13C3 PFHxS	109		50 - 200	08/28/25 07:24	08/29/25 13:33	1
13C8 PFOS	116		50 - 200	08/28/25 07:24	08/29/25 13:33	1
13C2-4:2-FTS	99		50 - 200	08/28/25 07:24	08/29/25 13:33	1
13C2-6:2-FTS	101		50 - 200	08/28/25 07:24	08/29/25 13:33	1
13C2-8:2-FTS	100		50 - 200	08/28/25 07:24	08/29/25 13:33	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		08/28/25 02:13	08/28/25 20:18	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 20:18	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 20:18	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 20:18	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 20:18	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 20:18	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 20:18	1

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Client Sample Results

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

Job ID: 380-168247-1
SDG: PFAS: Moanalua Wells, Halawa Wells, Aiea Gulch Wells
P1/P2, Aiea Wells Pumps 1&2

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

Lab Sample ID: 380-168247-7

**Date Collected: 08/25/25 11:03
Date Received: 08/27/25 10:04**

**Matrix: Water
PWSID Number: HI0000331**

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 20:18	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 20:18	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 20:18	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 20:18	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 20:18	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 20:18	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 20:18	1
Perfluorotridecanoic acid (PFTDA)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 20:18	1
9-Chlorohexadecafluoro-3-oxanonane-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 20:18	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 20:18	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 20:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	105		70 - 130			08/28/25 02:13	08/28/25 20:18	1
13C2 PFHxA	111		70 - 130			08/28/25 02:13	08/28/25 20:18	1
13C2 PFDA	116		70 - 130			08/28/25 02:13	08/28/25 20:18	1
13C3-GenX	105		70 - 130			08/28/25 02:13	08/28/25 20:18	1

**Client Sample ID: FB: AIEA GULCH WELLS PUMP 1
(331-201-TP071)**

Lab Sample ID: 380-168247-8

**Date Collected: 08/25/25 11:32
Date Received: 08/27/25 10:04**

**Matrix: Water
PWSID Number: HI0000331**

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		08/28/25 07:24	08/29/25 13:54	1
9-Chlorohexadecafluoro-3-oxanonane-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 13:54	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 13:54	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 13:54	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 13:54	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 13:54	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 13:54	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 13:54	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 13:54	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 13:54	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 13:54	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 13:54	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 13:54	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 13:54	1
Perfluorobutanoic acid (PFBA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 13:54	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 13:54	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 13:54	1

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Client Sample Results

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

Job ID: 380-168247-1
SDG: PFAS: Moanalua Wells, Halawa Wells, Aiea Gulch Wells
P1/P2, Aiea Wells Pumps 1&2

**Client Sample ID: FB: AIEA GULCH WELLS PUMP 1
(331-201-TP071)**

Lab Sample ID: 380-168247-8

Date Collected: 08/25/25 11:32
Date Received: 08/27/25 10:04

Matrix: Water
PWSID Number: HI0000331

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-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 13:54	1
Nonfluoro-3,6-dioxahexanoic acid (NFDHA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 13:54	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 13:54	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 13:54	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 13:54	1
Perfluoropentanoic acid (PFPeA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 13:54	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 13:54	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 13:54	1
Isotope Dilution	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	120		50 - 200			08/28/25 07:24	08/29/25 13:54	1
13C6 PFDA	119		50 - 200			08/28/25 07:24	08/29/25 13:54	1
13C5 PFHxA	114		50 - 200			08/28/25 07:24	08/29/25 13:54	1
13C4 PFHpA	118		50 - 200			08/28/25 07:24	08/29/25 13:54	1
13C8 PFOA	117		50 - 200			08/28/25 07:24	08/29/25 13:54	1
13C9 PFNA	115		50 - 200			08/28/25 07:24	08/29/25 13:54	1
13C7 PFUnA	116		50 - 200			08/28/25 07:24	08/29/25 13:54	1
13C2 PFDoA	124		50 - 200			08/28/25 07:24	08/29/25 13:54	1
13C4 PFBA	118		50 - 200			08/28/25 07:24	08/29/25 13:54	1
13C5 PFPeA	114		50 - 200			08/28/25 07:24	08/29/25 13:54	1
13C3 PFBS	115		50 - 200			08/28/25 07:24	08/29/25 13:54	1
13C3 PFHxS	113		50 - 200			08/28/25 07:24	08/29/25 13:54	1
13C8 PFOS	116		50 - 200			08/28/25 07:24	08/29/25 13:54	1
13C2-4:2-FTS	93		50 - 200			08/28/25 07:24	08/29/25 13:54	1
13C2-6:2-FTS	96		50 - 200			08/28/25 07:24	08/29/25 13:54	1
13C2-8:2-FTS	99		50 - 200			08/28/25 07:24	08/29/25 13:54	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		08/28/25 02:13	08/28/25 20:27	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 20:27	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 20:27	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 20:27	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 20:27	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 20:27	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 20:27	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 20:27	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 20:27	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 20:27	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 20:27	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 20:27	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 20:27	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 20:27	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-168247-1
SDG: PFAS: Moanalua Wells, Halawa Wells, Aiea Gulch Wells
P1/P2, Aiea Wells Pumps 1&2

Client Sample ID: FB: AIEA GULCH WELLS PUMP 1
(331-201-TP071)

Lab Sample ID: 380-168247-8

Date Collected: 08/25/25 11:32
Date Received: 08/27/25 10:04

Matrix: Water
PWSID Number: HI0000331

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		08/28/25 02:13	08/28/25 20:27	1
9-Chlorohexadecafluoro-3-oxanonane-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 20:27	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 20:27	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 20:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	107		70 - 130			08/28/25 02:13	08/28/25 20:27	1
13C2 PFHxA	108		70 - 130			08/28/25 02:13	08/28/25 20:27	1
13C2 PFDA	115		70 - 130			08/28/25 02:13	08/28/25 20:27	1
13C3-GenX	105		70 - 130			08/28/25 02:13	08/28/25 20:27	1

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

Lab Sample ID: 380-168247-9

Date Collected: 08/25/25 11:50
Date Received: 08/27/25 10:04

Matrix: Water
PWSID Number: HI0000331

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		08/28/25 07:24	08/29/25 14:05	1
9-Chlorohexadecafluoro-3-oxanonane-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 14:05	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 14:05	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 14:05	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 14:05	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 14:05	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 14:05	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 14:05	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 14:05	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 14:05	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 14:05	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 14:05	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 14:05	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 14:05	1
Perfluorobutanoic acid (PFBA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 14:05	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 14:05	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 14:05	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 14:05	1
Nonfluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 14:05	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 14:05	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 14:05	1

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Client Sample Results

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

Job ID: 380-168247-1
SDG: PFAS: Moanalua Wells, Halawa Wells, Aiea Gulch Wells
P1/P2, Aiea Wells Pumps 1&2

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

Lab Sample ID: 380-168247-9

Date Collected: 08/25/25 11:50
Date Received: 08/27/25 10:04

Matrix: Water
PWSID Number: HI0000331

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		08/28/25 07:24	08/29/25 14:05	1
Perfluoropentanoic acid (PFPeA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 14:05	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 14:05	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 14:05	1
Isotope Dilution	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	112		50 - 200			08/28/25 07:24	08/29/25 14:05	1
13C6 PFDA	116		50 - 200			08/28/25 07:24	08/29/25 14:05	1
13C5 PFHxA	109		50 - 200			08/28/25 07:24	08/29/25 14:05	1
13C4 PFHpA	110		50 - 200			08/28/25 07:24	08/29/25 14:05	1
13C8 PFOA	112		50 - 200			08/28/25 07:24	08/29/25 14:05	1
13C9 PFNA	112		50 - 200			08/28/25 07:24	08/29/25 14:05	1
13C7 PFUnA	116		50 - 200			08/28/25 07:24	08/29/25 14:05	1
13C2 PFDoA	119		50 - 200			08/28/25 07:24	08/29/25 14:05	1
13C4 PFBA	115		50 - 200			08/28/25 07:24	08/29/25 14:05	1
13C5 PFPeA	110		50 - 200			08/28/25 07:24	08/29/25 14:05	1
13C3 PFBS	115		50 - 200			08/28/25 07:24	08/29/25 14:05	1
13C3 PFHxS	110		50 - 200			08/28/25 07:24	08/29/25 14:05	1
13C8 PFOS	117		50 - 200			08/28/25 07:24	08/29/25 14:05	1
13C2-4:2-FTS	93		50 - 200			08/28/25 07:24	08/29/25 14:05	1
13C2-6:2-FTS	98		50 - 200			08/28/25 07:24	08/29/25 14:05	1
13C2-8:2-FTS	101		50 - 200			08/28/25 07:24	08/29/25 14:05	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		08/28/25 02:13	08/28/25 20:37	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 20:37	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 20:37	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 20:37	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 20:37	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 20:37	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 20:37	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 20:37	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 20:37	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 20:37	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 20:37	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 20:37	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 20:37	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 20:37	1
Perfluorotridecanoic acid (PFTrDA)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 20:37	1
9-Chlorohexadecafluoro-3-oxanonane-sulfonic acid(9CI-PF3ONS)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 20:37	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 20:37	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 20:37	1

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Client Sample Results

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

Job ID: 380-168247-1
SDG: PFAS: Moanalua Wells, Halawa Wells, Aiea Gulch Wells
P1/P2, Aiea Wells Pumps 1&2

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

Lab Sample ID: 380-168247-9

Date Collected: 08/25/25 11:50
Date Received: 08/27/25 10:04

Matrix: Water
PWSID Number: HI0000331

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	105		70 - 130	08/28/25 02:13	08/28/25 20:37	1
13C2 PFHxA	106		70 - 130	08/28/25 02:13	08/28/25 20:37	1
13C2 PFDA	110		70 - 130	08/28/25 02:13	08/28/25 20:37	1
13C3-GenX	105		70 - 130	08/28/25 02:13	08/28/25 20:37	1

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

Lab Sample ID: 380-168247-10

Date Collected: 08/25/25 12:16
Date Received: 08/27/25 10:04

Matrix: Water
PWSID Number: HI0000331

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		08/28/25 07:24	08/29/25 14:15	1
9-Chlorohexadecafluoro-3-oxanonane-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 14:15	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 14:15	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 14:15	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 14:15	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 14:15	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 14:15	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 14:15	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 14:15	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 14:15	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 14:15	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 14:15	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 14:15	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 14:15	1
Perfluorobutanoic acid (PFBA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 14:15	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 14:15	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 14:15	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 14:15	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 14:15	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 14:15	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 14:15	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 14:15	1
Perfluoropentanoic acid (PFPeA)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 14:15	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 14:15	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		08/28/25 07:24	08/29/25 14:15	1
Isotope Dilution	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	112		50 - 200			08/28/25 07:24	08/29/25 14:15	1
13C6 PFDA	113		50 - 200			08/28/25 07:24	08/29/25 14:15	1
13C5 PFHxA	102		50 - 200			08/28/25 07:24	08/29/25 14:15	1

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Client Sample Results

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

Job ID: 380-168247-1
SDG: PFAS: Moanalua Wells, Halawa Wells, Aiea Gulch Wells
P1/P2, Aiea Wells Pumps 1&2

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

Lab Sample ID: 380-168247-10

Date Collected: 08/25/25 12:16
Date Received: 08/27/25 10:04

Matrix: Water
PWSID Number: HI0000331

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFHpA	105		50 - 200	08/28/25 07:24	08/29/25 14:15	1
13C8 PFOA	112		50 - 200	08/28/25 07:24	08/29/25 14:15	1
13C9 PFNA	111		50 - 200	08/28/25 07:24	08/29/25 14:15	1
13C7 PFUnA	114		50 - 200	08/28/25 07:24	08/29/25 14:15	1
13C2 PFDoA	117		50 - 200	08/28/25 07:24	08/29/25 14:15	1
13C4 PFBA	114		50 - 200	08/28/25 07:24	08/29/25 14:15	1
13C5 PFPeA	115		50 - 200	08/28/25 07:24	08/29/25 14:15	1
13C3 PFBS	110		50 - 200	08/28/25 07:24	08/29/25 14:15	1
13C3 PFHxS	109		50 - 200	08/28/25 07:24	08/29/25 14:15	1
13C8 PFOS	118		50 - 200	08/28/25 07:24	08/29/25 14:15	1
13C2-4:2-FTS	94		50 - 200	08/28/25 07:24	08/29/25 14:15	1
13C2-6:2-FTS	97		50 - 200	08/28/25 07:24	08/29/25 14:15	1
13C2-8:2-FTS	100		50 - 200	08/28/25 07:24	08/29/25 14:15	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		08/28/25 02:13	08/28/25 20:46	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 20:46	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 20:46	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 20:46	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 20:46	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 20:46	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 20:46	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 20:46	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 20:46	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 20:46	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 20:46	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 20:46	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 20:46	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 20:46	1
Perfluorotridecanoic acid (PFTrDA)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 20:46	1
9-Chlorohexadecafluoro-3-oxanonane-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 20:46	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 20:46	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		08/28/25 02:13	08/28/25 20:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	98		70 - 130	08/28/25 02:13	08/28/25 20:46	1
13C2 PFHxA	96		70 - 130	08/28/25 02:13	08/28/25 20:46	1
13C2 PFDA	104		70 - 130	08/28/25 02:13	08/28/25 20:46	1
13C3-GenX	92		70 - 130	08/28/25 02:13	08/28/25 20:46	1

Action Limit Summary

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

Job ID: 380-168247-1
SDG: PFAS: Moanalua Wells, Halawa Wells, Aiea Gulch Wells
P1/P2, Aiea Wells Pumps 1&2

Client Sample ID: MOANALUA WELLS (331-223-TP202)

Lab Sample ID: 380-168247-1

PWSID Number: HI0000331

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

Lab Sample ID: 380-168247-2

PWSID Number: HI0000331

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)	2.4		ng/L	10	2.0	533	Total/NA
Perfluorononanoic acid (PFNA)	<2.0		ng/L	10	2.0	533	Total/NA
Perfluorooctanesulfonic acid (PFOS)	2.3		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)	2.4		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 1
(331-201-TP071)**

Lab Sample ID: 380-168247-3

PWSID Number: HI0000331

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

Eurofins Eaton Analytical Pomona

Action Limit Summary

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

Job ID: 380-168247-1
SDG: PFAS: Moanalua Wells, Halawa Wells, Aiea Gulch Wells
P1/P2, Aiea Wells Pumps 1&2

Client Sample ID: AIEA GULCH WELLS PUMP 1
(331-201-TP071) (Continued)
PWSID Number: HI0000331

Lab Sample ID: 380-168247-3

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

Client Sample ID: AIEA GULCH WELLS PUMP 2
(331-202-TP072)
PWSID Number: HI0000331

Lab Sample ID: 380-168247-4

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

Client Sample ID: AIEA WELLS PUMPS 1&2 (260) P2
(331-203-TP400)
PWSID Number: HI0000331

Lab Sample ID: 380-168247-5

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

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Action Limit Summary

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

Job ID: 380-168247-1
SDG: PFAS: Moanalua Wells, Halawa Wells, Aiea Gulch Wells
P1/P2, Aiea Wells Pumps 1&2

Client Sample ID: AIEA WELLS PUMPS 1&2 (260) P2
(331-203-TP400) (Continued)
PWSID Number: HI0000331

Lab Sample ID: 380-168247-5

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			
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: MOANALUA WELLS (331-223-TP202)
PWSID Number: HI0000331

Lab Sample ID: 380-168247-6

Compliance Check

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

Analyte	Result	Qualifier	Unit	EPAMCL	RL	Method	Prep Type
				Limit			
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		ng/L	10	2.0	533	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	<2.0		ng/L	10	2.0	533	Total/NA
Perfluorononanoic acid (PFNA)	<2.0		ng/L	10	2.0	533	Total/NA
Perfluorooctanesulfonic acid (PFOS)	<2.0		ng/L	4	2.0	533	Total/NA
Perfluorooctanoic acid (PFOA)	<2.0		ng/L	4	2.0	533	Total/NA
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		ng/L	10	2.0	537.1	Total/NA
Perfluorooctanesulfonic acid (PFOS)	<2.0		ng/L	4	2.0	537.1	Total/NA
Perfluorooctanoic acid (PFOA)	<2.0		ng/L	4	2.0	537.1	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	<2.0		ng/L	10	2.0	537.1	Total/NA
Perfluorononanoic acid (PFNA)	<2.0		ng/L	10	2.0	537.1	Total/NA

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

Lab Sample ID: 380-168247-7

Compliance Check

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

Analyte	Result	Qualifier	Unit	EPAMCL	RL	Method	Prep Type
				Limit			
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		ng/L	10	2.0	533	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	<2.0		ng/L	10	2.0	533	Total/NA
Perfluorononanoic acid (PFNA)	<2.0		ng/L	10	2.0	533	Total/NA
Perfluorooctanesulfonic acid (PFOS)	<2.0		ng/L	4	2.0	533	Total/NA
Perfluorooctanoic acid (PFOA)	<2.0		ng/L	4	2.0	533	Total/NA

Eurofins Eaton Analytical Pomona

Action Limit Summary

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

Job ID: 380-168247-1
SDG: PFAS: Moanalua Wells, Halawa Wells, Aiea Gulch Wells
P1/P2, Aiea Wells Pumps 1&2

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

Lab Sample ID: 380-168247-7

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	537.1	Total/NA
Perfluorooctanesulfonic acid (PFOS)	<2.0		ng/L	4	2.0	537.1	Total/NA
Perfluorooctanoic acid (PFOA)	<2.0		ng/L	4	2.0	537.1	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	<2.0		ng/L	10	2.0	537.1	Total/NA
Perfluorononanoic acid (PFNA)	<2.0		ng/L	10	2.0	537.1	Total/NA

Client Sample ID: FB: AIEA GULCH WELLS PUMP 1
(331-201-TP071)
PWSID Number: HI0000331

Lab Sample ID: 380-168247-8

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 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 GULCH WELLS PUMP 2
(331-202-TP072)
PWSID Number: HI0000331

Lab Sample ID: 380-168247-9

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

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Action Limit Summary

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

Job ID: 380-168247-1
SDG: PFAS: Moanalua Wells, Halawa Wells, Aiea Gulch Wells
P1/P2, Aiea Wells Pumps 1&2

Client Sample ID: FB: AIEA GULCH WELLS PUMP 2
(331-202-TP072) (Continued)
PWSID Number: HI0000331

Lab Sample ID: 380-168247-9

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
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)
PWSID Number: HI0000331

Lab Sample ID: 380-168247-10

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

Surrogate Summary

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

Job ID: 380-168247-1
SDG: PFAS: Moanalua Wells, Halawa Wells, Aiea Gulch Wells
P1/P2, Aiea Wells Pumps 1&2

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)
380-168247-1	MOANALUA WELLS (331-223-T	99	108	113	105
380-168247-2	HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP065)	110	103	108	106
380-168247-3	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	103	104	106	100
380 168247 4	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	94	103	103	98
380-168247-5	AIEA WELLS PUMPS 1&2 (260) P2 (331-203-TP400)	107	111	108	106
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)
380-168247-6	FB: MOANALUA WELLS (331-2	108	105	111	106
380-168247-7	FB: HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	105	111	116	105
380-168247-8	FB: AIEA GULCH WELLS PUMP 1 (331-201-TP071)	107	108	115	105
380-168247-9	FB: AIEA GULCH WELLS PUMP 2 (331-202-TP072)	105	106	110	105
380-168247-10	FB: AIEA WELLS PUMPS 1&2 (260) (331-203-TP400)	98	96	104	92
380-168256-A-1-B MS	Matrix Spike	102	108	110	104
380-168256-A-1-C MSD	Matrix Spike Duplicate	103	106	111	102
LCS 380-171060/22-A	Lab Control Sample	107	109	106	102
MBL 380-171060/20-A	Method Blank	102	104	106	102
MRL 380-171060/21-A	Lab Control Sample	99	103	114	96
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: 380-168247-1
SDG: PFAS: Moanalua Wells, Halawa Wells, Aiea Gulch Wells
P1/P2, Aiea Wells Pumps 1&2

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)	PFDaA (50-200)
380-168247-1	MOANALUA WELLS (331-223-T	116	114	108	105	112	107	112	115
380-168247-2	HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP065)	117	115	106	102	113	107	114	115
380-168247-3	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	117	111	105	108	109	110	117	120
380 168247 4	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	116	113	112	107	111	112	114	119
380-168247-5	AIEA WELLS PUMPS 1&2 (260) P2 (331-203-TP400)	120	117	108	108	114	113	116	121
		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)
380-168247-1	MOANALUA WELLS (331-223-T	115	112	116	109	115	94	97	100
380-168247-2	HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP065)	114	115	111	108	112	94	98	100
380-168247-3	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	111	112	109	105	112	94	94	95
380-168247-4	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	114	110	112	109	114	94	103	99
380-168247-5	AIEA WELLS PUMPS 1&2 (260) P2 (331-203-TP400)	118	117	116	111	118	99	101	100
Surrogate Legend									
HFPODA = 13C3 HFPO-DA									
C6PFDA = 13C6 PFDA									
13C5PHA = 13C5 PFHxA									
C4PFHA = 13C4 PFHpA									
C8PFOA = 13C8 PFOA									
C9PFNA = 13C9 PFNA									
13C7PUA = 13C7 PFUnA									
PFDaA = 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)	PFDaA (50-200)
380-168247-6	FB: MOANALUA WELLS (331-2	116	117	111	112	115	111	116	118
380-168247-7	FB: HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	111	114	110	107	111	109	110	117
380-168247-8	FB: AIEA GULCH WELLS PUMP 1 (331-201-TP071)	120	119	114	118	117	115	116	124
380-168247-9	FB: AIEA GULCH WELLS PUMP 2 (331-202-TP072)	112	116	109	110	112	112	116	119

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Isotope Dilution Summary

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

Job ID: 380-168247-1
SDG: PFAS: Moanalua Wells, Halawa Wells, Aiea Gulch Wells
P1/P2, Aiea Wells Pumps 1&2

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	HFPODA (50-200)	C6PFDA (50-200)	13C5PHA (50-200)	C4PFHA (50-200)	C8PFOA (50-200)	C9PFNA (50-200)	13C7PUA (50-200)	PFDaA (50-200)
380-168247-10	FB: AIEA WELLS PUMPS 1&2 (	112	113	102	105	112	111	114	117
380-168256-B-1-A MS	Matrix Spike	121	119	109	108	114	114	116	115
380-168256-B-1-B MSD	Matrix Spike Duplicate	117	115	108	105	108	108	117	116
LCS 380-171066/22-A	Lab Control Sample	120	118	110	108	115	112	116	120
MBL 380-171066/20-A	Method Blank	101	105	99	96	102	100	104	107
MRL 380-171066/21-A	Lab Control Sample	106	109	101	100	108	103	111	110

		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)
380-168247-6	FB: MOANALUA WELLS (331-2	113	108	118	111	116	96	94	99
380-168247-7	FB: HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	112	111	113	109	116	99	101	100
380-168247-8	FB: AIEA GULCH WELLS PUMP 1 (331-201-TP071)	118	114	115	113	116	93	96	99
380-168247-9	FB: AIEA GULCH WELLS PUMP 2 (331-202-TP072)	115	110	115	110	117	93	98	101
380-168247-10	FB: AIEA WELLS PUMPS 1&2 (260) (331-203-TP400)	114	115	110	109	118	94	97	100
380-168256-B-1-A MS	Matrix Spike	113	116	111	107	114	89	99	102
380-168256-B-1-B MSD	Matrix Spike Duplicate	111	112	108	105	111	91	94	97
LCS 380-171066/22-A	Lab Control Sample	113	115	110	106	113	85	92	98
MBL 380-171066/20-A	Method Blank	104	100	113	105	113	85	86	89
MRL 380-171066/21-A	Lab Control Sample	107	104	116	111	115	92	97	99

Surrogate Legend

HFPODA = 13C3 HFPO-DA
C6PFDA = 13C6 PFDA
13C5PHA = 13C5 PFHxA
C4PFHA = 13C4 PFHpA
C8PFOA = 13C8 PFOA
C9PFNA = 13C9 PFNA
13C7PUA = 13C7 PFUnA
PFDaA = 13C2 PFDaA
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: 380-168247-1
SDG: PFAS: Moanalua Wells, Halawa Wells, Aiea Gulch Wells
P1/P2, Aiea Wells Pumps 1&2

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

Lab Sample ID: MBL 380-171066/20-A

Matrix: Water

Analysis Batch: 171422

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 171066

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<0.30		2.0	ng/L		08/28/25 07:24	08/29/25 11:03	1
9-Chlorohexadecafluoro-3-oxanonane-sulfonic acid(9Cl-PF3ONS)	<0.30		2.0	ng/L		08/28/25 07:24	08/29/25 11:03	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.60		2.0	ng/L		08/28/25 07:24	08/29/25 11:03	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<1.0		2.0	ng/L		08/28/25 07:24	08/29/25 11:03	1
Perfluorobutanesulfonic acid (PFBS)	<0.37		2.0	ng/L		08/28/25 07:24	08/29/25 11:03	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	ng/L		08/28/25 07:24	08/29/25 11:03	1
Perfluorododecanoic acid (PFDoA)	<0.54		2.0	ng/L		08/28/25 07:24	08/29/25 11:03	1
Perfluoroheptanoic acid (PFHpA)	<0.39		2.0	ng/L		08/28/25 07:24	08/29/25 11:03	1
Perfluorohexanesulfonic acid (PFHxS)	<0.32		2.0	ng/L		08/28/25 07:24	08/29/25 11:03	1
Perfluorohexanoic acid (PFHxA)	<0.46		2.0	ng/L		08/28/25 07:24	08/29/25 11:03	1
Perfluorononanoic acid (PFNA)	<0.40		2.0	ng/L		08/28/25 07:24	08/29/25 11:03	1
Perfluorooctanesulfonic acid (PFOS)	<0.43		2.0	ng/L		08/28/25 07:24	08/29/25 11:03	1
Perfluorooctanoic acid (PFOA)	<0.38		2.0	ng/L		08/28/25 07:24	08/29/25 11:03	1
Perfluoroundecanoic acid (PFUnA)	<0.42		2.0	ng/L		08/28/25 07:24	08/29/25 11:03	1
Perfluorobutanoic acid (PFBA)	<0.69		2.0	ng/L		08/28/25 07:24	08/29/25 11:03	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<0.38		2.0	ng/L		08/28/25 07:24	08/29/25 11:03	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<0.37		2.0	ng/L		08/28/25 07:24	08/29/25 11:03	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<0.48		2.0	ng/L		08/28/25 07:24	08/29/25 11:03	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.47		2.0	ng/L		08/28/25 07:24	08/29/25 11:03	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<0.25		2.0	ng/L		08/28/25 07:24	08/29/25 11:03	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.46		2.0	ng/L		08/28/25 07:24	08/29/25 11:03	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.15		2.0	ng/L		08/28/25 07:24	08/29/25 11:03	1
Perfluoropentanoic acid (PFPeA)	<0.38		2.0	ng/L		08/28/25 07:24	08/29/25 11:03	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.36		2.0	ng/L		08/28/25 07:24	08/29/25 11:03	1
Perfluoropentanesulfonic acid (PFPeS)	<0.39		2.0	ng/L		08/28/25 07:24	08/29/25 11:03	1

Isotope Dilution	MBL %Recovery	MBL Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	101		50 - 200	08/28/25 07:24	08/29/25 11:03	1
13C6 PFDA	105		50 - 200	08/28/25 07:24	08/29/25 11:03	1
13C5 PFHxA	99		50 - 200	08/28/25 07:24	08/29/25 11:03	1
13C4 PFHpA	96		50 - 200	08/28/25 07:24	08/29/25 11:03	1
13C8 PFOA	102		50 - 200	08/28/25 07:24	08/29/25 11:03	1
13C9 PFNA	100		50 - 200	08/28/25 07:24	08/29/25 11:03	1
13C7 PFUnA	104		50 - 200	08/28/25 07:24	08/29/25 11:03	1
13C2 PFDoA	107		50 - 200	08/28/25 07:24	08/29/25 11:03	1
13C4 PFBA	104		50 - 200	08/28/25 07:24	08/29/25 11:03	1
13C5 PFPeA	100		50 - 200	08/28/25 07:24	08/29/25 11:03	1
13C3 PFBS	113		50 - 200	08/28/25 07:24	08/29/25 11:03	1
13C3 PFHxS	105		50 - 200	08/28/25 07:24	08/29/25 11:03	1
13C8 PFOS	113		50 - 200	08/28/25 07:24	08/29/25 11:03	1
13C2-4:2-FTS	85		50 - 200	08/28/25 07:24	08/29/25 11:03	1

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-168247-1
SDG: PFAS: Moanalua Wells, Halawa Wells, Aiea Gulch Wells
P1/P2, Aiea Wells Pumps 1&2

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

Lab Sample ID: MBL 380-171066/20-A

Matrix: Water

Analysis Batch: 171422

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 171066

Isotope Dilution	MBL %Recovery	MBL Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2-6:2-FTS	86		50 - 200	08/28/25 07:24	08/29/25 11:03	1
13C2-8:2-FTS	89		50 - 200	08/28/25 07:24	08/29/25 11:03	1

Lab Sample ID: LCS 380-171066/22-A

Matrix: Water

Analysis Batch: 171422

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 171066

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	120	110		ng/L		92	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	120	113		ng/L		94	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	120	121		ng/L		101	70 - 130
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	120	110		ng/L		91	70 - 130
Perfluorobutanesulfonic acid (PFBS)	120	120		ng/L		100	70 - 130
Perfluorodecanoic acid (PFDA)	120	116		ng/L		96	70 - 130
Perfluorododecanoic acid (PFDoA)	120	112		ng/L		93	70 - 130
Perfluoroheptanoic acid (PFHpA)	120	114		ng/L		94	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	120	122		ng/L		102	70 - 130
Perfluorohexanoic acid (PFHxA)	120	117		ng/L		98	70 - 130
Perfluorononanoic acid (PFNA)	120	117		ng/L		98	70 - 130
Perfluorooctanesulfonic acid (PFOS)	120	116		ng/L		97	70 - 130
Perfluorooctanoic acid (PFOA)	120	115		ng/L		96	70 - 130
Perfluoroundecanoic acid (PFUnA)	120	122		ng/L		101	70 - 130
Perfluorobutanoic acid (PFBA)	120	118		ng/L		98	70 - 130
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	120	117		ng/L		97	70 - 130
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	120	120		ng/L		100	70 - 130
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	120	116		ng/L		97	70 - 130
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	120	123		ng/L		102	70 - 130
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	120	117		ng/L		97	70 - 130
Perfluoro-3-methoxypropanoic acid (PFMPA)	120	116		ng/L		96	70 - 130
Perfluoro-4-methoxybutanoic acid (PFMBA)	120	114		ng/L		95	70 - 130
Perfluoropentanoic acid (PFPeA)	120	117		ng/L		97	70 - 130
Perfluoroheptanesulfonic acid (PFHpS)	120	118		ng/L		98	70 - 130
Perfluoropentanesulfonic acid (PFPeS)	120	118		ng/L		98	70 - 130

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C3 HFPO-DA	120		50 - 200

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-168247-1
SDG: PFAS: Moanalua Wells, Halawa Wells, Aiea Gulch Wells
P1/P2, Aiea Wells Pumps 1&2

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

Lab Sample ID: LCS 380-171066/22-A

Matrix: Water

Analysis Batch: 171422

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 171066

Isotope Dilution	LCS		Limits
	%Recovery	Qualifier	
13C6 PFDA	118		50 - 200
13C5 PFHxA	110		50 - 200
13C4 PFHpA	108		50 - 200
13C8 PFOA	115		50 - 200
13C9 PFNA	112		50 - 200
13C7 PFUnA	116		50 - 200
13C2 PFDoA	120		50 - 200
13C4 PFBA	113		50 - 200
13C5 PFPeA	115		50 - 200
13C3 PFBS	110		50 - 200
13C3 PFHxS	106		50 - 200
13C8 PFOS	113		50 - 200
13C2-4:2-FTS	85		50 - 200
13C2-6:2-FTS	92		50 - 200
13C2-8:2-FTS	98		50 - 200

Lab Sample ID: MRL 380-171066/21-A

Matrix: Water

Analysis Batch: 171422

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 171066

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.01	1.84	J	ng/L		92	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	2.01	1.96	J	ng/L		97	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	2.01	2.04	J	ng/L		101	50 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	2.01	1.87	J	ng/L		93	50 - 150
Perfluorobutanesulfonic acid (PFBS)	2.01	1.94	J	ng/L		97	50 - 150
Perfluorodecanoic acid (PFDA)	2.01	2.05	J	ng/L		102	50 - 150
Perfluorododecanoic acid (PFDoA)	2.01	2.03	J	ng/L		101	50 - 150
Perfluoroheptanoic acid (PFHpA)	2.01	2.01	J	ng/L		100	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	2.01	2.00	J	ng/L		100	50 - 150
Perfluorohexanoic acid (PFHxA)	2.01	2.05	J	ng/L		102	50 - 150
Perfluorononanoic acid (PFNA)	2.01	2.04	J	ng/L		101	50 - 150
Perfluorooctanesulfonic acid (PFOS)	2.01	1.96	J	ng/L		97	50 - 150
Perfluorooctanoic acid (PFOA)	2.01	2.01	J	ng/L		100	50 - 150
Perfluoroundecanoic acid (PFUnA)	2.01	1.94	J	ng/L		97	50 - 150
Perfluorobutanoic acid (PFBA)	2.01	2.13	J	ng/L		106	50 - 150
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	2.01	2.16	J	ng/L		107	50 - 150
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	2.01	2.08	J	ng/L		104	50 - 150
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	2.01	2.07	J	ng/L		103	50 - 150

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-168247-1
SDG: PFAS: Moanalua Wells, Halawa Wells, Aiea Gulch Wells
P1/P2, Aiea Wells Pumps 1&2

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

Lab Sample ID: MRL 380-171066/21-A

Matrix: Water

Analysis Batch: 171422

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 171066

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	2.01	2.06	J	ng/L		103	50 - 150
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	2.01	1.87	J	ng/L		93	50 - 150
Perfluoro-3-methoxypropanoic acid (PFMPA)	2.01	1.97	J	ng/L		98	50 - 150
Perfluoro-4-methoxybutanoic acid (PFMBA)	2.01	1.97	J	ng/L		98	50 - 150
Perfluoropentanoic acid (PFPeA)	2.01	2.07	J	ng/L		103	50 - 150
Perfluoroheptanesulfonic acid (PFHpS)	2.01	2.00	J	ng/L		100	50 - 150
Perfluoropentanesulfonic acid (PFPeS)	2.01	1.96	J	ng/L		98	50 - 150
Isotope Dilution	MRL %Recovery	MRL Qualifier	Limits				
13C3 HFPO-DA	106		50 - 200				
13C6 PFDA	109		50 - 200				
13C5 PFHxA	101		50 - 200				
13C4 PFHpA	100		50 - 200				
13C8 PFOA	108		50 - 200				
13C9 PFNA	103		50 - 200				
13C7 PFUnA	111		50 - 200				
13C2 PFDoA	110		50 - 200				
13C4 PFBA	107		50 - 200				
13C5 PFPeA	104		50 - 200				
13C3 PFBS	116		50 - 200				
13C3 PFHxS	111		50 - 200				
13C8 PFOS	115		50 - 200				
13C2-4:2-FTS	92		50 - 200				
13C2-6:2-FTS	97		50 - 200				
13C2-8:2-FTS	99		50 - 200				

Lab Sample ID: 380-168256-B-1-A MS

Matrix: Water

Analysis Batch: 171422

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 171066

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		121	105		ng/L		87	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		121	109		ng/L		90	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		121	116		ng/L		96	70 - 130
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		121	109		ng/L		91	70 - 130
Perfluorobutanesulfonic acid (PFBS)	<2.0		121	112		ng/L		92	70 - 130
Perfluorodecanoic acid (PFDA)	<2.0		121	117		ng/L		97	70 - 130
Perfluorododecanoic acid (PFDoA)	<2.0		121	118		ng/L		98	70 - 130
Perfluoroheptanoic acid (PFHpA)	<2.0		121	113		ng/L		93	70 - 130

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-168247-1
SDG: PFAS: Moanalua Wells, Halawa Wells, Aiea Gulch Wells
P1/P2, Aiea Wells Pumps 1&2

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

Lab Sample ID: 380-168256-B-1-A MS

Matrix: Water

Analysis Batch: 171422

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 171066

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorohexanesulfonic acid (PFHxS)	<2.0		121	118		ng/L		96	70 - 130
Perfluorohexanoic acid (PFHxA)	<2.0		121	112		ng/L		92	70 - 130
Perfluorononanoic acid (PFNA)	<2.0		121	114		ng/L		95	70 - 130
Perfluorooctanesulfonic acid (PFOS)	<2.0		121	113		ng/L		94	70 - 130
Perfluorooctanoic acid (PFOA)	<2.0		121	112		ng/L		92	70 - 130
Perfluoroundecanoic acid (PFUnA)	<2.0		121	116		ng/L		96	70 - 130
Perfluorobutanoic acid (PFBA)	<2.0		121	113		ng/L		93	70 - 130
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		121	117		ng/L		97	70 - 130
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		121	113		ng/L		94	70 - 130
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		121	114		ng/L		95	70 - 130
Nonafluoro-3,6-dioxahexanoic acid (NFDHA)	<2.0		121	120		ng/L		99	70 - 130
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<2.0		121	109		ng/L		90	70 - 130
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		121	108		ng/L		90	70 - 130
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		121	114		ng/L		94	70 - 130
Perfluoropentanoic acid (PFPeA)	<2.0		121	114		ng/L		94	70 - 130
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		121	112		ng/L		92	70 - 130
Perfluoropentanesulfonic acid (PFPeS)	<2.0		121	114		ng/L		94	70 - 130

Isotope Dilution	MS %Recovery	MS Qualifier	Limits
13C3 HFPO-DA	121		50 - 200
13C6 PFDA	119		50 - 200
13C5 PFHxA	109		50 - 200
13C4 PFHpA	108		50 - 200
13C8 PFOA	114		50 - 200
13C9 PFNA	114		50 - 200
13C7 PFUnA	116		50 - 200
13C2 PFDoA	115		50 - 200
13C4 PFBA	113		50 - 200
13C5 PFPeA	116		50 - 200
13C3 PFBS	111		50 - 200
13C3 PFHxS	107		50 - 200
13C8 PFOS	114		50 - 200
13C2-4:2-FTS	89		50 - 200
13C2-6:2-FTS	99		50 - 200
13C2-8:2-FTS	102		50 - 200

QC Sample Results

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

Job ID: 380-168247-1
SDG: PFAS: Moanalua Wells, Halawa Wells, Aiea Gulch Wells
P1/P2, Aiea Wells Pumps 1&2

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

Lab Sample ID: 380-168256-B-1-B MSD

Matrix: Water

Analysis Batch: 171422

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 171066

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		121	111		ng/L		92	70 - 130	5	30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		121	113		ng/L		94	70 - 130	4	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		121	122		ng/L		101	70 - 130	5	30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		121	110		ng/L		91	70 - 130	1	30
Perfluorobutanesulfonic acid (PFBS)	<2.0		121	118		ng/L		97	70 - 130	5	30
Perfluorodecanoic acid (PFDA)	<2.0		121	116		ng/L		96	70 - 130	1	30
Perfluorododecanoic acid (PFDoA)	<2.0		121	114		ng/L		95	70 - 130	3	30
Perfluoroheptanoic acid (PFHpA)	<2.0		121	115		ng/L		96	70 - 130	2	30
Perfluorohexanesulfonic acid (PFHxS)	<2.0		121	119		ng/L		98	70 - 130	1	30
Perfluorohexanoic acid (PFHxA)	<2.0		121	117		ng/L		96	70 - 130	5	30
Perfluorononanoic acid (PFNA)	<2.0		121	119		ng/L		98	70 - 130	4	30
Perfluorooctanesulfonic acid (PFOS)	<2.0		121	117		ng/L		97	70 - 130	3	30
Perfluorooctanoic acid (PFOA)	<2.0		121	120		ng/L		99	70 - 130	7	30
Perfluoroundecanoic acid (PFUnA)	<2.0		121	114		ng/L		95	70 - 130	1	30
Perfluorobutanoic acid (PFBA)	<2.0		121	114		ng/L		94	70 - 130	1	30
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		121	121		ng/L		100	70 - 130	3	30
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		121	113		ng/L		94	70 - 130	0	30
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		121	117		ng/L		97	70 - 130	2	30
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		121	119		ng/L		99	70 - 130	1	30
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<2.0		121	112		ng/L		93	70 - 130	3	30
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		121	113		ng/L		94	70 - 130	4	30
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		121	119		ng/L		98	70 - 130	4	30
Perfluoropentanoic acid (PFPeA)	<2.0		121	114		ng/L		94	70 - 130	0	30
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		121	115		ng/L		95	70 - 130	3	30
Perfluoropentanesulfonic acid (PFPeS)	<2.0		121	116		ng/L		96	70 - 130	1	30

Isotope Dilution	MSD %Recovery	MSD Qualifier	Limits
13C3 HFPO-DA	117		50 - 200
13C6 PFDA	115		50 - 200
13C5 PFHxA	108		50 - 200
13C4 PFHpA	105		50 - 200
13C8 PFOA	108		50 - 200
13C9 PFNA	108		50 - 200
13C7 PFUnA	117		50 - 200
13C2 PFDoA	116		50 - 200
13C4 PFBA	111		50 - 200

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-168247-1
SDG: PFAS: Moanalua Wells, Halawa Wells, Aiea Gulch Wells
P1/P2, Aiea Wells Pumps 1&2

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

Lab Sample ID: 380-168256-B-1-B MSD

Matrix: Water

Analysis Batch: 171422

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 171066

Isotope Dilution	MSD MSD		Limits
	%Recovery	Qualifier	
13C5 PFPeA	112		50 - 200
13C3 PFBS	108		50 - 200
13C3 PFHxS	105		50 - 200
13C8 PFOS	111		50 - 200
13C2-4:2-FTS	91		50 - 200
13C2-6:2-FTS	94		50 - 200
13C2-8:2-FTS	97		50 - 200

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

Lab Sample ID: MBL 380-171060/20-A

Matrix: Water

Analysis Batch: 171248

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 171060

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<1.0		2.0	ng/L		08/28/25 02:13	08/28/25 17:16	1
Perfluorooctanesulfonic acid (PFOS)	<0.43		2.0	ng/L		08/28/25 02:13	08/28/25 17:16	1
Perfluoroundecanoic acid (PFUnA)	<0.42		2.0	ng/L		08/28/25 02:13	08/28/25 17:16	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.58		2.0	ng/L		08/28/25 02:13	08/28/25 17:16	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.42		2.0	ng/L		08/28/25 02:13	08/28/25 17:16	1
Perfluorohexanoic acid (PFHxA)	<0.46		2.0	ng/L		08/28/25 02:13	08/28/25 17:16	1
Perfluorododecanoic acid (PFDoA)	<0.54		2.0	ng/L		08/28/25 02:13	08/28/25 17:16	1
Perfluorooctanoic acid (PFOA)	<0.38		2.0	ng/L		08/28/25 02:13	08/28/25 17:16	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	ng/L		08/28/25 02:13	08/28/25 17:16	1
Perfluorohexanesulfonic acid (PFHxS)	<0.32		2.0	ng/L		08/28/25 02:13	08/28/25 17:16	1
Perfluorobutanesulfonic acid (PFBS)	<0.37		2.0	ng/L		08/28/25 02:13	08/28/25 17:16	1
Perfluoroheptanoic acid (PFHpA)	<0.39		2.0	ng/L		08/28/25 02:13	08/28/25 17:16	1
Perfluorononanoic acid (PFNA)	<0.40		2.0	ng/L		08/28/25 02:13	08/28/25 17:16	1
Perfluorotetradecanoic acid (PFTA)	<0.54		2.0	ng/L		08/28/25 02:13	08/28/25 17:16	1
Perfluorotridecanoic acid (PFTTrDA)	<0.36		2.0	ng/L		08/28/25 02:13	08/28/25 17:16	1
9-Chlorohexadecafluoro-3-oxanonane-sulfonic acid(9Cl-PF3ONS)	<0.30		2.0	ng/L		08/28/25 02:13	08/28/25 17:16	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<0.30		2.0	ng/L		08/28/25 02:13	08/28/25 17:16	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.60		2.0	ng/L		08/28/25 02:13	08/28/25 17:16	1

Surrogate	MBL MBL		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
d5-NEtFOSAA	102		70 - 130	08/28/25 02:13	08/28/25 17:16	1
13C2 PFHxA	104		70 - 130	08/28/25 02:13	08/28/25 17:16	1
13C2 PFDA	106		70 - 130	08/28/25 02:13	08/28/25 17:16	1
13C3-GenX	102		70 - 130	08/28/25 02:13	08/28/25 17:16	1

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-168247-1
SDG: PFAS: Moanalua Wells, Halawa Wells, Aiea Gulch Wells
P1/P2, Aiea Wells Pumps 1&2

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

Lab Sample ID: LCS 380-171060/22-A

Matrix: Water

Analysis Batch: 171248

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 171060

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	50.3	50.5		ng/L		100	70 - 130
Perfluorooctanesulfonic acid (PFOS)	50.3	51.6		ng/L		103	70 - 130
Perfluoroundecanoic acid (PFUnA)	50.3	53.0		ng/L		105	70 - 130
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	50.3	49.2		ng/L		98	70 - 130
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	50.3	49.0		ng/L		97	70 - 130
Perfluorohexanoic acid (PFHxA)	50.3	49.6		ng/L		99	70 - 130
Perfluorododecanoic acid (PFDoA)	50.3	52.5		ng/L		104	70 - 130
Perfluorooctanoic acid (PFOA)	50.3	52.0		ng/L		103	70 - 130
Perfluorodecanoic acid (PFDA)	50.3	52.0		ng/L		103	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	50.3	50.6		ng/L		101	70 - 130
Perfluorobutanesulfonic acid (PFBS)	50.3	49.7		ng/L		99	70 - 130
Perfluoroheptanoic acid (PFHpA)	50.3	50.7		ng/L		101	70 - 130
Perfluorononanoic acid (PFNA)	50.3	53.0		ng/L		105	70 - 130
Perfluorotetradecanoic acid (PFTA)	50.3	43.6		ng/L		87	70 - 130
Perfluorotridecanoic acid (PFTrDA)	50.3	53.6		ng/L		107	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	50.3	49.6		ng/L		99	70 - 130
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	50.3	49.1		ng/L		98	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	50.3	50.5		ng/L		100	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
d5-NEtFOSAA	107		70 - 130
13C2 PFHxA	109		70 - 130
13C2 PFDA	106		70 - 130
13C3-GenX	102		70 - 130

Lab Sample ID: MRL 380-171060/21-A

Matrix: Water

Analysis Batch: 171248

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 171060

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	2.01	1.83	J	ng/L		91	50 - 150
Perfluorooctanesulfonic acid (PFOS)	2.01	2.13	J	ng/L		106	50 - 150
Perfluoroundecanoic acid (PFUnA)	2.01	2.13	J	ng/L		106	50 - 150
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.01	1.97	J	ng/L		98	50 - 150
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.01	1.79	J	ng/L		89	50 - 150
Perfluorohexanoic acid (PFHxA)	2.01	1.92	J	ng/L		95	50 - 150

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-168247-1
SDG: PFAS: Moanalua Wells, Halawa Wells, Aiea Gulch Wells
P1/P2, Aiea Wells Pumps 1&2

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

Lab Sample ID: MRL 380-171060/21-A

Matrix: Water

Analysis Batch: 171248

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 171060

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorododecanoic acid (PFDoA)	2.01	2.10	J	ng/L		105	50 - 150
Perfluorooctanoic acid (PFOA)	2.01	2.11	J	ng/L		105	50 - 150
Perfluorodecanoic acid (PFDA)	2.01	2.24	J	ng/L		111	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	2.01	2.10	J	ng/L		104	50 - 150
Perfluorobutanesulfonic acid (PFBS)	2.01	2.17	J	ng/L		108	50 - 150
Perfluoroheptanoic acid (PFHpA)	2.01	2.11	J	ng/L		105	50 - 150
Perfluorononanoic acid (PFNA)	2.01	2.15	J	ng/L		107	50 - 150
Perfluorotetradecanoic acid (PFTA)	2.01	2.01	J	ng/L		100	50 - 150
Perfluorotridecanoic acid (PFTTrDA)	2.01	2.21	J	ng/L		110	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	2.01	2.04	J	ng/L		101	50 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.01	2.04	J	ng/L		101	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	2.01	1.93	J	ng/L		96	50 - 150

Surrogate	MRL %Recovery	MRL Qualifier	Limits
d5-NEtFOSAA	99		70 - 130
13C2 PFHxA	103		70 - 130
13C2 PFDA	114		70 - 130
13C3-GenX	96		70 - 130

Lab Sample ID: 380-168256-A-1-B MS

Matrix: Water

Analysis Batch: 171248

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 171060

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		50.4	49.8		ng/L		99	70 - 130
Perfluorooctanesulfonic acid (PFOS)	<2.0		50.4	51.2		ng/L		102	70 - 130
Perfluoroundecanoic acid (PFUnA)	<2.0		50.4	53.4		ng/L		106	70 - 130
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		50.4	50.3		ng/L		100	70 - 130
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		50.4	49.4		ng/L		98	70 - 130
Perfluorohexanoic acid (PFHxA)	<2.0		50.4	50.2		ng/L		98	70 - 130
Perfluorododecanoic acid (PFDoA)	<2.0		50.4	51.2		ng/L		102	70 - 130
Perfluorooctanoic acid (PFOA)	<2.0		50.4	53.5		ng/L		105	70 - 130
Perfluorodecanoic acid (PFDA)	<2.0		50.4	52.7		ng/L		104	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	<2.0		50.4	50.7		ng/L		98	70 - 130
Perfluorobutanesulfonic acid (PFBS)	<2.0		50.4	50.9		ng/L		100	70 - 130
Perfluoroheptanoic acid (PFHpA)	<2.0		50.4	51.6		ng/L		102	70 - 130
Perfluorononanoic acid (PFNA)	<2.0		50.4	53.3		ng/L		106	70 - 130

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-168247-1
SDG: PFAS: Moanalua Wells, Halawa Wells, Aiea Gulch Wells
P1/P2, Aiea Wells Pumps 1&2

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

Lab Sample ID: 380-168256-A-1-B MS

Matrix: Water

Analysis Batch: 171248

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 171060

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorotetradecanoic acid (PFTA)	<2.0		50.4	44.1		ng/L		88	70 - 130
Perfluorotridecanoic acid (PFTTrDA)	<2.0		50.4	52.3		ng/L		104	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		50.4	47.3		ng/L		94	70 - 130
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		50.4	47.9		ng/L		95	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		50.4	51.6		ng/L		102	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
d5-NEtFOSAA	102		70 - 130						
13C2 PFHxA	108		70 - 130						
13C2 PFDA	110		70 - 130						
13C3-GenX	104		70 - 130						

Lab Sample ID: 380-168256-A-1-C MSD

Matrix: Water

Analysis Batch: 171248

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 171060

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		50.4	49.1		ng/L		97	70 - 130	1	30
Perfluorooctanesulfonic acid (PFOS)	<2.0		50.4	51.1		ng/L		101	70 - 130	0	30
Perfluoroundecanoic acid (PFUnA)	<2.0		50.4	52.1		ng/L		103	70 - 130	3	30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		50.4	48.8		ng/L		97	70 - 130	3	30
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		50.4	49.3		ng/L		98	70 - 130	0	30
Perfluorohexanoic acid (PFHxA)	<2.0		50.4	52.6		ng/L		103	70 - 130	5	30
Perfluorododecanoic acid (PFDoA)	<2.0		50.4	52.9		ng/L		105	70 - 130	3	30
Perfluorooctanoic acid (PFOA)	<2.0		50.4	52.9		ng/L		104	70 - 130	1	30
Perfluorodecanoic acid (PFDA)	<2.0		50.4	52.9		ng/L		105	70 - 130	0	30
Perfluorohexanesulfonic acid (PFHxS)	<2.0		50.4	51.3		ng/L		99	70 - 130	1	30
Perfluorobutanesulfonic acid (PFBS)	<2.0		50.4	51.4		ng/L		101	70 - 130	1	30
Perfluoroheptanoic acid (PFHpA)	<2.0		50.4	50.3		ng/L		100	70 - 130	3	30
Perfluorononanoic acid (PFNA)	<2.0		50.4	52.1		ng/L		103	70 - 130	2	30
Perfluorotetradecanoic acid (PFTA)	<2.0		50.4	43.4		ng/L		86	70 - 130	2	30
Perfluorotridecanoic acid (PFTTrDA)	<2.0		50.4	52.3		ng/L		104	70 - 130	0	30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		50.4	48.9		ng/L		97	70 - 130	3	30
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		50.4	47.7		ng/L		95	70 - 130	0	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		50.4	50.4		ng/L		100	70 - 130	2	30

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-168247-1
SDG: PFAS: Moanalua Wells, Halawa Wells, Aiea Gulch Wells
P1/P2, Aiea Wells Pumps 1&2

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

Lab Sample ID: 380-168256-A-1-C MSD

Matrix: Water

Analysis Batch: 171248

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 171060

Surrogate	MSD		Limits
	%Recovery	Qualifier	
d5-NEtFOSAA	103		70 - 130
13C2 PFHxA	106		70 - 130
13C2 PFDA	111		70 - 130
13C3-GenX	102		70 - 130

QC Association Summary

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

Job ID: 380-168247-1
SDG: PFAS: Moanalua Wells, Halawa Wells, Aiea Gulch Wells
P1/P2, Aiea Wells Pumps 1&2

LCMS

Prep Batch: 171060

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-168247-1	MOANALUA WELLS (331-223-TP202)	Total/NA	Drinking Water	537.1 DW	
380-168247-2	HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP01)	Total/NA	Drinking Water	537.1 DW	
380-168247-3	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	537.1 DW	
380-168247-4	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	537.1 DW	
380-168247-5	AIEA WELLS PUMPS 1&2 (260) P2 (331-203-TP073)	Total/NA	Drinking Water	537.1 DW	
380-168247-6	FB: MOANALUA WELLS (331-223-TP202)	Total/NA	Water	537.1 DW	
380-168247-7	FB: HALAWA WELLS UNITS 1 & 2 (331-206-TPC01)	Total/NA	Water	537.1 DW	
380-168247-8	FB: AIEA GULCH WELLS PUMP 1 (331-201-TPC071)	Total/NA	Water	537.1 DW	
380-168247-9	FB: AIEA GULCH WELLS PUMP 2 (331-202-TPC072)	Total/NA	Water	537.1 DW	
380-168247-10	FB: AIEA WELLS PUMPS 1&2 (260) (331-203-TPC073)	Total/NA	Water	537.1 DW	
MBL 380-171060/20-A	Method Blank	Total/NA	Water	537.1 DW	
LCS 380-171060/22-A	Lab Control Sample	Total/NA	Water	537.1 DW	
MRL 380-171060/21-A	Lab Control Sample	Total/NA	Water	537.1 DW	
380-168256-A-1-B MS	Matrix Spike	Total/NA	Water	537.1 DW	
380-168256-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	537.1 DW	

Prep Batch: 171066

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-168247-1	MOANALUA WELLS (331-223-TP202)	Total/NA	Drinking Water	533	
380-168247-2	HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP01)	Total/NA	Drinking Water	533	
380-168247-3	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	533	
380-168247-4	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	533	
380-168247-5	AIEA WELLS PUMPS 1&2 (260) P2 (331-203-TP073)	Total/NA	Drinking Water	533	
380-168247-6	FB: MOANALUA WELLS (331-223-TP202)	Total/NA	Water	533	
380-168247-7	FB: HALAWA WELLS UNITS 1 & 2 (331-206-TPC01)	Total/NA	Water	533	
380-168247-8	FB: AIEA GULCH WELLS PUMP 1 (331-201-TPC071)	Total/NA	Water	533	
380-168247-9	FB: AIEA GULCH WELLS PUMP 2 (331-202-TPC072)	Total/NA	Water	533	
380-168247-10	FB: AIEA WELLS PUMPS 1&2 (260) (331-203-TPC073)	Total/NA	Water	533	
MBL 380-171066/20-A	Method Blank	Total/NA	Water	533	
LCS 380-171066/22-A	Lab Control Sample	Total/NA	Water	533	
MRL 380-171066/21-A	Lab Control Sample	Total/NA	Water	533	
380-168256-B-1-A MS	Matrix Spike	Total/NA	Water	533	
380-168256-B-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	533	

Analysis Batch: 171248

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-168247-1	MOANALUA WELLS (331-223-TP202)	Total/NA	Drinking Water	537.1	171060
380-168247-2	HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP01)	Total/NA	Drinking Water	537.1	171060
380-168247-3	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	537.1	171060
380-168247-4	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	537.1	171060
380-168247-5	AIEA WELLS PUMPS 1&2 (260) P2 (331-203-TP073)	Total/NA	Drinking Water	537.1	171060
380-168247-6	FB: MOANALUA WELLS (331-223-TP202)	Total/NA	Water	537.1	171060
380-168247-7	FB: HALAWA WELLS UNITS 1 & 2 (331-206-TPC01)	Total/NA	Water	537.1	171060
380-168247-8	FB: AIEA GULCH WELLS PUMP 1 (331-201-TPC071)	Total/NA	Water	537.1	171060
380-168247-9	FB: AIEA GULCH WELLS PUMP 2 (331-202-TPC072)	Total/NA	Water	537.1	171060
380-168247-10	FB: AIEA WELLS PUMPS 1&2 (260) (331-203-TPC073)	Total/NA	Water	537.1	171060
MBL 380-171060/20-A	Method Blank	Total/NA	Water	537.1	171060
LCS 380-171060/22-A	Lab Control Sample	Total/NA	Water	537.1	171060
MRL 380-171060/21-A	Lab Control Sample	Total/NA	Water	537.1	171060
380-168256-A-1-B MS	Matrix Spike	Total/NA	Water	537.1	171060

Eurofins Eaton Analytical Pomona

QC Association Summary

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

Job ID: 380-168247-1
SDG: PFAS: Moanalua Wells, Halawa Wells, Aiea Gulch Wells
P1/P2, Aiea Wells Pumps 1&2

LCMS (Continued)

Analysis Batch: 171248 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-168256-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	537.1	171060

Analysis Batch: 171422

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-168247-1	MOANALUA WELLS (331-223-TP202)	Total/NA	Drinking Water	533	171066
380-168247-2	HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP01)	Total/NA	Drinking Water	533	171066
380-168247-3	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	533	171066
380-168247-4	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	533	171066
380-168247-5	AIEA WELLS PUMPS 1&2 (260) P2 (331-203-TP073)	Total/NA	Drinking Water	533	171066
380-168247-6	FB: MOANALUA WELLS (331-223-TP202)	Total/NA	Water	533	171066
380-168247-7	FB: HALAWA WELLS UNITS 1 & 2 (331-206-TPC01)	Total/NA	Water	533	171066
380-168247-8	FB: AIEA GULCH WELLS PUMP 1 (331-201-TPC01)	Total/NA	Water	533	171066
380-168247-9	FB: AIEA GULCH WELLS PUMP 2 (331-202-TPC02)	Total/NA	Water	533	171066
380-168247-10	FB: AIEA WELLS PUMPS 1&2 (260) (331-203-TPC03)	Total/NA	Water	533	171066
MBL 380-171066/20-A	Method Blank	Total/NA	Water	533	171066
LCS 380-171066/22-A	Lab Control Sample	Total/NA	Water	533	171066
MRL 380-171066/21-A	Lab Control Sample	Total/NA	Water	533	171066
380-168256-B-1-A MS	Matrix Spike	Total/NA	Water	533	171066
380-168256-B-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	533	171066

Lab Chronicle

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

Job ID: 380-168247-1
SDG: PFAS: Moanalua Wells, Halawa Wells, Aiea Gulch Wells
P1/P2, Aiea Wells Pumps 1&2

Client Sample ID: MOANALUA WELLS (331-223-TP202)

Lab Sample ID: 380-168247-1

Date Collected: 08/25/25 10:30

Matrix: Drinking Water

Date Received: 08/27/25 10:04

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			171066	XTD8	EA POM	08/28/25 07:24
Total/NA	Analysis	533		1	171422	Y5FM	EA POM	08/29/25 12:29
Total/NA	Prep	537.1 DW			171060	G9MN	EA POM	08/28/25 02:13
Total/NA	Analysis	537.1		1	171248	SZ9R	EA POM	08/28/25 19:11

Client Sample ID: HALAWA WELLS UNITS 1 & 2 P1

Lab Sample ID: 380-168247-2

(331-206-TP065)

Date Collected: 08/25/25 11:03

Matrix: Drinking Water

Date Received: 08/27/25 10:04

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			171066	XTD8	EA POM	08/28/25 07:24
Total/NA	Analysis	533		1	171422	Y5FM	EA POM	08/29/25 12:39
Total/NA	Prep	537.1 DW			171060	G9MN	EA POM	08/28/25 02:13
Total/NA	Analysis	537.1		1	171248	SZ9R	EA POM	08/28/25 19:20

Client Sample ID: AIEA GULCH WELLS PUMP 1

Lab Sample ID: 380-168247-3

(331-201-TP071)

Date Collected: 08/25/25 11:32

Matrix: Drinking Water

Date Received: 08/27/25 10:04

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			171066	XTD8	EA POM	08/28/25 07:24
Total/NA	Analysis	533		1	171422	Y5FM	EA POM	08/29/25 12:50
Total/NA	Prep	537.1 DW			171060	G9MN	EA POM	08/28/25 02:13
Total/NA	Analysis	537.1		1	171248	SZ9R	EA POM	08/28/25 19:30

Client Sample ID: AIEA GULCH WELLS PUMP 2

Lab Sample ID: 380-168247-4

(331-202-TP072)

Date Collected: 08/25/25 11:50

Matrix: Drinking Water

Date Received: 08/27/25 10:04

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			171066	XTD8	EA POM	08/28/25 07:24
Total/NA	Analysis	533		1	171422	Y5FM	EA POM	08/29/25 13:01
Total/NA	Prep	537.1 DW			171060	G9MN	EA POM	08/28/25 02:13
Total/NA	Analysis	537.1		1	171248	SZ9R	EA POM	08/28/25 19:49

Lab Chronicle

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

Job ID: 380-168247-1
SDG: PFAS: Moanalua Wells, Halawa Wells, Aiea Gulch Wells
P1/P2, Aiea Wells Pumps 1&2

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

Lab Sample ID: 380-168247-5

Date Collected: 08/25/25 12:16

Matrix: Drinking Water

Date Received: 08/27/25 10:04

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			171066	XTD8	EA POM	08/28/25 07:24
Total/NA	Analysis	533		1	171422	Y5FM	EA POM	08/29/25 13:11
Total/NA	Prep	537.1 DW			171060	G9MN	EA POM	08/28/25 02:13
Total/NA	Analysis	537.1		1	171248	SZ9R	EA POM	08/28/25 19:59

Client Sample ID: FB: MOANALUA WELLS (331-223-TP202)

Lab Sample ID: 380-168247-6

Date Collected: 08/25/25 10:30

Matrix: Water

Date Received: 08/27/25 10:04

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			171066	XTD8	EA POM	08/28/25 07:24
Total/NA	Analysis	533		1	171422	Y5FM	EA POM	08/29/25 13:22
Total/NA	Prep	537.1 DW			171060	G9MN	EA POM	08/28/25 02:13
Total/NA	Analysis	537.1		1	171248	SZ9R	EA POM	08/28/25 20:08

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

Lab Sample ID: 380-168247-7

Date Collected: 08/25/25 11:03

Matrix: Water

Date Received: 08/27/25 10:04

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			171066	XTD8	EA POM	08/28/25 07:24
Total/NA	Analysis	533		1	171422	Y5FM	EA POM	08/29/25 13:33
Total/NA	Prep	537.1 DW			171060	G9MN	EA POM	08/28/25 02:13
Total/NA	Analysis	537.1		1	171248	SZ9R	EA POM	08/28/25 20:18

**Client Sample ID: FB: AIEA GULCH WELLS PUMP 1
(331-201-TP071)**

Lab Sample ID: 380-168247-8

Date Collected: 08/25/25 11:32

Matrix: Water

Date Received: 08/27/25 10:04

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			171066	XTD8	EA POM	08/28/25 07:24
Total/NA	Analysis	533		1	171422	Y5FM	EA POM	08/29/25 13:54
Total/NA	Prep	537.1 DW			171060	G9MN	EA POM	08/28/25 02:13
Total/NA	Analysis	537.1		1	171248	SZ9R	EA POM	08/28/25 20:27

Lab Chronicle

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

Job ID: 380-168247-1
SDG: PFAS: Moanalua Wells, Halawa Wells, Aiea Gulch Wells
P1/P2, Aiea Wells Pumps 1&2

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

Lab Sample ID: 380-168247-9

Date Collected: 08/25/25 11:50

Matrix: Water

Date Received: 08/27/25 10:04

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			171066	XTD8	EA POM	08/28/25 07:24
Total/NA	Analysis	533		1	171422	Y5FM	EA POM	08/29/25 14:05
Total/NA	Prep	537.1 DW			171060	G9MN	EA POM	08/28/25 02:13
Total/NA	Analysis	537.1		1	171248	SZ9R	EA POM	08/28/25 20:37

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

Lab Sample ID: 380-168247-10

Date Collected: 08/25/25 12:16

Matrix: Water

Date Received: 08/27/25 10:04

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			171066	XTD8	EA POM	08/28/25 07:24
Total/NA	Analysis	533		1	171422	Y5FM	EA POM	08/29/25 14:15
Total/NA	Prep	537.1 DW			171060	G9MN	EA POM	08/28/25 02:13
Total/NA	Analysis	537.1		1	171248	SZ9R	EA POM	08/28/25 20:46

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: 380-168247-1
SDG: PFAS: Moanalua Wells, Halawa Wells, Aiea Gulch Wells
P1/P2, Aiea Wells Pumps 1&2

Laboratory: Eurofins Eaton Analytical Pomona

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

Authority	Program	Identification Number	Expiration Date
Hawaii	State	CA00006	01-31-26

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

Method Summary

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

Job ID: 380-168247-1
SDG: PFAS: Moanalua Wells, Halawa Wells, Aiea Gulch Wells
P1/P2, Aiea Wells Pumps 1&2

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: 380-168247-1
SDG: PFAS: Moanalua Wells, Halawa Wells, Aiea Gulch
Wells P1/P2, Aiea Wells Pumps 1&2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	PWSID Number
380-168247-1	MOANALUA WELLS (331-223-TP202)	Drinking Water	08/25/25 10:30	08/27/25 10:04	HI0000331
380-168247-2	HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP065)	Drinking Water	08/25/25 11:03	08/27/25 10:04	HI0000331
380-168247-3	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Drinking Water	08/25/25 11:32	08/27/25 10:04	HI0000331
380-168247-4	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Drinking Water	08/25/25 11:50	08/27/25 10:04	HI0000331
380-168247-5	AIEA WELLS PUMPS 1&2 (260) P2 (331-203-TP400)	Drinking Water	08/25/25 12:16	08/27/25 10:04	HI0000331
380-168247-6	FB: MOANALUA WELLS (331-223-TP202)	Water	08/25/25 10:30	08/27/25 10:04	HI0000331
380-168247-7	FB: HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	Water	08/25/25 11:03	08/27/25 10:04	HI0000331
380-168247-8	FB: AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Water	08/25/25 11:32	08/27/25 10:04	HI0000331
380-168247-9	FB: AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Water	08/25/25 11:50	08/27/25 10:04	HI0000331
380-168247-10	FB: AIEA WELLS PUMPS 1&2 (260) (331-203-TP400)	Water	08/25/25 12:16	08/27/25 10:04	HI0000331

Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-168247-1

SDG Number: PFAS: Moanalua Wells, Halawa Wells, Aiea Gulch Wells P1/P2, Aiea Wells Pumps 1&2

Login Number: 168247

List Source: Eurofins Eaton Analytical Pomona

List Number: 1

Creator: Segura, Ryan

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").	True	
CIO4 headspace requirement met (>50% for CA, >30% for other states).	True	
Samples do not require splitting or compositing.	True	
Container provided by EEA	True	