

ANALYTICAL REPORT

PREPARED FOR

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

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JOB DESCRIPTION

RED-HILL
PFAS: Aiea Wells Pumps, Aiea Gulch Wells Pump 1/Pump 2

JOB NUMBER

380-176340-1

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
Maria Lopez, Project Manager
Maria.Lopez@et.eurofinsus.com
(626)386-1100

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Definitions/Glossary

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

Job ID: 380-176340-1
SDG: PFAS: Aiea Wells Pumps, Aiea Gulch Wells Pump
1/Pump 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: 380-176340-1

Job ID: 380-176340-1

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Job Narrative 380-176340-1

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 10/9/2025 10:26 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 2.5°C.

Receipt Exceptions

A Chain-of-Custody (COC) was not received with these samples: AIEA WELLS PUMPS #2 (380-176340-1), FB AIEA WELLS PUMPS #2 (380-176340-2), AIEA GULCH WELLS PUMP 1 (331-201-TP071) (380-176340-3), FB AIEA GULCH WELLS PUMP 1 (331-201-TP071) (380-176340-4), AIEA GULCH WELLS PUMP 2 (331-202-TP072) (380-176340-5) and FB AIEA GULCH WELLS PUMP 2 (331-202-TP072) (380-176340-6).

PFAS

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

Detection Summary

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

Job ID: 380-176340-1
SDG: PFAS: Aiea Wells Pumps, Aiea Gulch Wells Pump
1/Pump 2

Client Sample ID: AIEA WELLS PUMPS #2
PWSID Number: HI0000331

Lab Sample ID: 380-176340-1

No Detections.

Client Sample ID: FB AIEA WELLS PUMPS #2
PWSID Number: HI0000331

Lab Sample ID: 380-176340-2

No Detections.

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

Lab Sample ID: 380-176340-3

No Detections.

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

Lab Sample ID: 380-176340-4

No Detections.

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

Lab Sample ID: 380-176340-5

No Detections.

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

Lab Sample ID: 380-176340-6

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: 380-176340-1
SDG: PFAS: Aiea Wells Pumps, Aiea Gulch Wells Pump
1/Pump 2

Client Sample ID: AIEA WELLS PUMPS #2

Lab Sample ID: 380-176340-1

Date Collected: 10/07/25 13:00

Matrix: Drinking Water

Date Received: 10/09/25 10:26

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-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		10/13/25 16:00	10/15/25 09:11	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		10/13/25 16:00	10/15/25 09:11	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		10/13/25 16:00	10/15/25 09:11	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		10/13/25 16:00	10/15/25 09:11	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		10/13/25 16:00	10/15/25 09:11	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		10/13/25 16:00	10/15/25 09:11	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		10/13/25 16:00	10/15/25 09:11	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		10/13/25 16:00	10/15/25 09:11	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		10/13/25 16:00	10/15/25 09:11	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		10/13/25 16:00	10/15/25 09:11	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		10/13/25 16:00	10/15/25 09:11	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		10/13/25 16:00	10/15/25 09:11	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		10/13/25 16:00	10/15/25 09:11	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		10/13/25 16:00	10/15/25 09:11	1
Perfluorobutanoic acid (PFBA)	<2.0		2.0	ng/L		10/13/25 16:00	10/15/25 09:11	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0	ng/L		10/13/25 16:00	10/15/25 09:11	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0	ng/L		10/13/25 16:00	10/15/25 09:11	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0	ng/L		10/13/25 16:00	10/15/25 09:11	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		2.0	ng/L		10/13/25 16:00	10/15/25 09:11	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<2.0		2.0	ng/L		10/13/25 16:00	10/15/25 09:11	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		10/13/25 16:00	10/15/25 09:11	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		10/13/25 16:00	10/15/25 09:11	1
Perfluoropentanoic acid (PFPeA)	<2.0		2.0	ng/L		10/13/25 16:00	10/15/25 09:11	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		10/13/25 16:00	10/15/25 09:11	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		10/13/25 16:00	10/15/25 09:11	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	80		50 - 200	10/13/25 16:00	10/15/25 09:11	1
13C6 PFDA	54		50 - 200	10/13/25 16:00	10/15/25 09:11	1
13C5 PFHxA	75		50 - 200	10/13/25 16:00	10/15/25 09:11	1
13C4 PFHpA	71		50 - 200	10/13/25 16:00	10/15/25 09:11	1
13C8 PFOA	64		50 - 200	10/13/25 16:00	10/15/25 09:11	1
13C9 PFNA	61		50 - 200	10/13/25 16:00	10/15/25 09:11	1
13C7 PFUnA	50		50 - 200	10/13/25 16:00	10/15/25 09:11	1
13C2 PFDoA	56		50 - 200	10/13/25 16:00	10/15/25 09:11	1
13C4 PFBA	83		50 - 200	10/13/25 16:00	10/15/25 09:11	1
13C5 PFPeA	84		50 - 200	10/13/25 16:00	10/15/25 09:11	1
13C3 PFBS	113		50 - 200	10/13/25 16:00	10/15/25 09:11	1
13C3 PFHxS	108		50 - 200	10/13/25 16:00	10/15/25 09:11	1

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Client Sample Results

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

Job ID: 380-176340-1
SDG: PFAS: Aiea Wells Pumps, Aiea Gulch Wells Pump
1/Pump 2

Client Sample ID: AIEA WELLS PUMPS #2

Lab Sample ID: 380-176340-1

Date Collected: 10/07/25 13:00

Matrix: Drinking Water

Date Received: 10/09/25 10:26

PWSID Number: HI0000331

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOS	116		50 - 200	10/13/25 16:00	10/15/25 09:11	1
13C2-4:2-FTS	116		50 - 200	10/13/25 16:00	10/15/25 09:11	1
13C2-6:2-FTS	102		50 - 200	10/13/25 16:00	10/15/25 09:11	1
13C2-8:2-FTS	115		50 - 200	10/13/25 16:00	10/15/25 09:11	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		10/13/25 03:34	10/14/25 05:05	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		10/13/25 03:34	10/14/25 05:05	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		10/13/25 03:34	10/14/25 05:05	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		2.0	ng/L		10/13/25 03:34	10/14/25 05:05	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		2.0	ng/L		10/13/25 03:34	10/14/25 05:05	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		10/13/25 03:34	10/14/25 05:05	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		10/13/25 03:34	10/14/25 05:05	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		10/13/25 03:34	10/14/25 05:05	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		10/13/25 03:34	10/14/25 05:05	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		10/13/25 03:34	10/14/25 05:05	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		10/13/25 03:34	10/14/25 05:05	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		10/13/25 03:34	10/14/25 05:05	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		10/13/25 03:34	10/14/25 05:05	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0	ng/L		10/13/25 03:34	10/14/25 05:05	1
Perfluorotridecanoic acid (PFTrDA)	<2.0		2.0	ng/L		10/13/25 03:34	10/14/25 05:05	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		10/13/25 03:34	10/14/25 05:05	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		10/13/25 03:34	10/14/25 05:05	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		10/13/25 03:34	10/14/25 05:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	113		70 - 130	10/13/25 03:34	10/14/25 05:05	1
13C2 PFHxA	112		70 - 130	10/13/25 03:34	10/14/25 05:05	1
13C2 PFDA	121		70 - 130	10/13/25 03:34	10/14/25 05:05	1
13C3-GenX	122		70 - 130	10/13/25 03:34	10/14/25 05:05	1

Client Sample ID: FB AIEA WELLS PUMPS #2

Lab Sample ID: 380-176340-2

Date Collected: 10/07/25 13:00

Matrix: Drinking Water

Date Received: 10/09/25 10:26

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		10/13/25 16:00	10/14/25 12:05	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		10/13/25 16:00	10/14/25 12:05	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		10/13/25 16:00	10/14/25 12:05	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		10/13/25 16:00	10/14/25 12:05	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-176340-1
SDG: PFAS: Aiea Wells Pumps, Aiea Gulch Wells Pump
1/Pump 2

Client Sample ID: FB AIEA WELLS PUMPS #2

Lab Sample ID: 380-176340-2

Date Collected: 10/07/25 13:00

Matrix: Drinking Water

Date Received: 10/09/25 10:26

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
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		10/13/25 16:00	10/14/25 12:05	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		10/13/25 16:00	10/14/25 12:05	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		10/13/25 16:00	10/14/25 12:05	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		10/13/25 16:00	10/14/25 12:05	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		10/13/25 16:00	10/14/25 12:05	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		10/13/25 16:00	10/14/25 12:05	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		10/13/25 16:00	10/14/25 12:05	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		10/13/25 16:00	10/14/25 12:05	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		10/13/25 16:00	10/14/25 12:05	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		10/13/25 16:00	10/14/25 12:05	1
Perfluorobutanoic acid (PFBA)	<2.0		2.0	ng/L		10/13/25 16:00	10/14/25 12:05	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0	ng/L		10/13/25 16:00	10/14/25 12:05	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0	ng/L		10/13/25 16:00	10/14/25 12:05	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0	ng/L		10/13/25 16:00	10/14/25 12:05	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		2.0	ng/L		10/13/25 16:00	10/14/25 12:05	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<2.0		2.0	ng/L		10/13/25 16:00	10/14/25 12:05	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		10/13/25 16:00	10/14/25 12:05	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		10/13/25 16:00	10/14/25 12:05	1
Perfluoropentanoic acid (PFPeA)	<2.0		2.0	ng/L		10/13/25 16:00	10/14/25 12:05	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		10/13/25 16:00	10/14/25 12:05	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		10/13/25 16:00	10/14/25 12:05	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	136		50 - 200	10/13/25 16:00	10/14/25 12:05	1
13C6 PFDA	123		50 - 200	10/13/25 16:00	10/14/25 12:05	1
13C5 PFHxA	140		50 - 200	10/13/25 16:00	10/14/25 12:05	1
13C4 PFHpA	143		50 - 200	10/13/25 16:00	10/14/25 12:05	1
13C8 PFOA	142		50 - 200	10/13/25 16:00	10/14/25 12:05	1
13C9 PFNA	138		50 - 200	10/13/25 16:00	10/14/25 12:05	1
13C7 PFUnA	119		50 - 200	10/13/25 16:00	10/14/25 12:05	1
13C2 PFDoA	120		50 - 200	10/13/25 16:00	10/14/25 12:05	1
13C4 PFBA	151		50 - 200	10/13/25 16:00	10/14/25 12:05	1
13C5 PFPeA	156		50 - 200	10/13/25 16:00	10/14/25 12:05	1
13C3 PFBS	161		50 - 200	10/13/25 16:00	10/14/25 12:05	1
13C3 PFHxS	152		50 - 200	10/13/25 16:00	10/14/25 12:05	1
13C8 PFOS	132		50 - 200	10/13/25 16:00	10/14/25 12:05	1
13C2-4:2-FTS	196		50 - 200	10/13/25 16:00	10/14/25 12:05	1
13C2-6:2-FTS	172		50 - 200	10/13/25 16:00	10/14/25 12:05	1
13C2-8:2-FTS	142		50 - 200	10/13/25 16:00	10/14/25 12:05	1

Client Sample Results

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

Job ID: 380-176340-1
SDG: PFAS: Aiea Wells Pumps, Aiea Gulch Wells Pump
1/Pump 2

Client Sample ID: FB AIEA WELLS PUMPS #2

Lab Sample ID: 380-176340-2

Date Collected: 10/07/25 13:00

Matrix: Drinking Water

Date Received: 10/09/25 10:26

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		10/13/25 03:34	10/14/25 05:14	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		10/13/25 03:34	10/14/25 05:14	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		10/13/25 03:34	10/14/25 05:14	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		2.0	ng/L		10/13/25 03:34	10/14/25 05:14	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		2.0	ng/L		10/13/25 03:34	10/14/25 05:14	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		10/13/25 03:34	10/14/25 05:14	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		10/13/25 03:34	10/14/25 05:14	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		10/13/25 03:34	10/14/25 05:14	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		10/13/25 03:34	10/14/25 05:14	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		10/13/25 03:34	10/14/25 05:14	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		10/13/25 03:34	10/14/25 05:14	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		10/13/25 03:34	10/14/25 05:14	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		10/13/25 03:34	10/14/25 05:14	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0	ng/L		10/13/25 03:34	10/14/25 05:14	1
Perfluorotridecanoic acid (PFTrDA)	<2.0		2.0	ng/L		10/13/25 03:34	10/14/25 05:14	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		10/13/25 03:34	10/14/25 05:14	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		10/13/25 03:34	10/14/25 05:14	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		10/13/25 03:34	10/14/25 05:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	103		70 - 130			10/13/25 03:34	10/14/25 05:14	1
13C2 PFHxA	101		70 - 130			10/13/25 03:34	10/14/25 05:14	1
13C2 PFDA	113		70 - 130			10/13/25 03:34	10/14/25 05:14	1
13C3-GenX	94		70 - 130			10/13/25 03:34	10/14/25 05:14	1

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

Lab Sample ID: 380-176340-3

Date Collected: 10/07/25 12:00

Matrix: Drinking Water

Date Received: 10/09/25 10:26

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		10/15/25 20:01	10/16/25 10:10	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		10/15/25 20:01	10/16/25 10:10	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		10/15/25 20:01	10/16/25 10:10	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		10/15/25 20:01	10/16/25 10:10	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		10/15/25 20:01	10/16/25 10:10	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		10/15/25 20:01	10/16/25 10:10	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		10/15/25 20:01	10/16/25 10:10	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		10/15/25 20:01	10/16/25 10:10	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		10/15/25 20:01	10/16/25 10:10	1

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Client Sample Results

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

Job ID: 380-176340-1
SDG: PFAS: Aiea Wells Pumps, Aiea Gulch Wells Pump
1/Pump 2

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

Lab Sample ID: 380-176340-3

**Date Collected: 10/07/25 12:00
Date Received: 10/09/25 10:26**

**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
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		10/15/25 20:01	10/16/25 10:10	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		10/15/25 20:01	10/16/25 10:10	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		10/15/25 20:01	10/16/25 10:10	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		10/15/25 20:01	10/16/25 10:10	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		10/15/25 20:01	10/16/25 10:10	1
Perfluorobutanoic acid (PFBA)	<2.0		2.0	ng/L		10/15/25 20:01	10/16/25 10:10	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0	ng/L		10/15/25 20:01	10/16/25 10:10	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0	ng/L		10/15/25 20:01	10/16/25 10:10	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0	ng/L		10/15/25 20:01	10/16/25 10:10	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		2.0	ng/L		10/15/25 20:01	10/16/25 10:10	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<2.0		2.0	ng/L		10/15/25 20:01	10/16/25 10:10	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		10/15/25 20:01	10/16/25 10:10	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		10/15/25 20:01	10/16/25 10:10	1
Perfluoropentanoic acid (PFPeA)	<2.0		2.0	ng/L		10/15/25 20:01	10/16/25 10:10	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		10/15/25 20:01	10/16/25 10:10	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		10/15/25 20:01	10/16/25 10:10	1
Isotope Dilution	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	109		50 - 200			10/15/25 20:01	10/16/25 10:10	1
13C6 PFDA	116		50 - 200			10/15/25 20:01	10/16/25 10:10	1
13C5 PFHxA	112		50 - 200			10/15/25 20:01	10/16/25 10:10	1
13C4 PFHpA	112		50 - 200			10/15/25 20:01	10/16/25 10:10	1
13C8 PFOA	118		50 - 200			10/15/25 20:01	10/16/25 10:10	1
13C9 PFNA	120		50 - 200			10/15/25 20:01	10/16/25 10:10	1
13C7 PFUnA	116		50 - 200			10/15/25 20:01	10/16/25 10:10	1
13C2 PFDoA	114		50 - 200			10/15/25 20:01	10/16/25 10:10	1
13C4 PFBA	112		50 - 200			10/15/25 20:01	10/16/25 10:10	1
13C5 PFPeA	103		50 - 200			10/15/25 20:01	10/16/25 10:10	1
13C3 PFBS	113		50 - 200			10/15/25 20:01	10/16/25 10:10	1
13C3 PFHxS	117		50 - 200			10/15/25 20:01	10/16/25 10:10	1
13C8 PFOS	118		50 - 200			10/15/25 20:01	10/16/25 10:10	1
13C2-4:2-FTS	142		50 - 200			10/15/25 20:01	10/16/25 10:10	1
13C2-6:2-FTS	157		50 - 200			10/15/25 20:01	10/16/25 10:10	1
13C2-8:2-FTS	156		50 - 200			10/15/25 20:01	10/16/25 10:10	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		10/13/25 03:34	10/14/25 05:24	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		10/13/25 03:34	10/14/25 05:24	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		10/13/25 03:34	10/14/25 05:24	1

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Client Sample Results

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

Job ID: 380-176340-1
SDG: PFAS: Aiea Wells Pumps, Aiea Gulch Wells Pump
1/Pump 2

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

Lab Sample ID: 380-176340-3

**Date Collected: 10/07/25 12:00
Date Received: 10/09/25 10:26**

**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
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		2.0	ng/L		10/13/25 03:34	10/14/25 05:24	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		2.0	ng/L		10/13/25 03:34	10/14/25 05:24	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		10/13/25 03:34	10/14/25 05:24	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		10/13/25 03:34	10/14/25 05:24	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		10/13/25 03:34	10/14/25 05:24	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		10/13/25 03:34	10/14/25 05:24	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		10/13/25 03:34	10/14/25 05:24	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		10/13/25 03:34	10/14/25 05:24	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		10/13/25 03:34	10/14/25 05:24	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		10/13/25 03:34	10/14/25 05:24	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0	ng/L		10/13/25 03:34	10/14/25 05:24	1
Perfluorotridecanoic acid (PFTrDA)	<2.0		2.0	ng/L		10/13/25 03:34	10/14/25 05:24	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		10/13/25 03:34	10/14/25 05:24	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		10/13/25 03:34	10/14/25 05:24	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		10/13/25 03:34	10/14/25 05:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	102		70 - 130			10/13/25 03:34	10/14/25 05:24	1
13C2 PFHxA	105		70 - 130			10/13/25 03:34	10/14/25 05:24	1
13C2 PFDA	115		70 - 130			10/13/25 03:34	10/14/25 05:24	1
13C3-GenX	95		70 - 130			10/13/25 03:34	10/14/25 05:24	1

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

Lab Sample ID: 380-176340-4

**Date Collected: 10/07/25 12:00
Date Received: 10/09/25 10:26**

**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		10/13/25 16:00	10/14/25 12:34	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		10/13/25 16:00	10/14/25 12:34	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		10/13/25 16:00	10/14/25 12:34	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		10/13/25 16:00	10/14/25 12:34	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		10/13/25 16:00	10/14/25 12:34	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		10/13/25 16:00	10/14/25 12:34	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		10/13/25 16:00	10/14/25 12:34	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		10/13/25 16:00	10/14/25 12:34	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		10/13/25 16:00	10/14/25 12:34	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		10/13/25 16:00	10/14/25 12:34	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		10/13/25 16:00	10/14/25 12:34	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		10/13/25 16:00	10/14/25 12:34	1

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Client Sample Results

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

Job ID: 380-176340-1
SDG: PFAS: Aiea Wells Pumps, Aiea Gulch Wells Pump
1/Pump 2

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

Lab Sample ID: 380-176340-4

**Date Collected: 10/07/25 12:00
Date Received: 10/09/25 10:26**

**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
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		10/13/25 16:00	10/14/25 12:34	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		10/13/25 16:00	10/14/25 12:34	1
Perfluorobutanoic acid (PFBA)	<2.0		2.0	ng/L		10/13/25 16:00	10/14/25 12:34	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0	ng/L		10/13/25 16:00	10/14/25 12:34	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0	ng/L		10/13/25 16:00	10/14/25 12:34	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0	ng/L		10/13/25 16:00	10/14/25 12:34	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		2.0	ng/L		10/13/25 16:00	10/14/25 12:34	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<2.0		2.0	ng/L		10/13/25 16:00	10/14/25 12:34	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		10/13/25 16:00	10/14/25 12:34	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		10/13/25 16:00	10/14/25 12:34	1
Perfluoropentanoic acid (PFPeA)	<2.0		2.0	ng/L		10/13/25 16:00	10/14/25 12:34	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		10/13/25 16:00	10/14/25 12:34	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		10/13/25 16:00	10/14/25 12:34	1
Isotope Dilution	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	131		50 - 200			10/13/25 16:00	10/14/25 12:34	1
13C6 PFDA	123		50 - 200			10/13/25 16:00	10/14/25 12:34	1
13C5 PFHxA	126		50 - 200			10/13/25 16:00	10/14/25 12:34	1
13C4 PFHpA	134		50 - 200			10/13/25 16:00	10/14/25 12:34	1
13C8 PFOA	132		50 - 200			10/13/25 16:00	10/14/25 12:34	1
13C9 PFNA	130		50 - 200			10/13/25 16:00	10/14/25 12:34	1
13C7 PFUnA	119		50 - 200			10/13/25 16:00	10/14/25 12:34	1
13C2 PFDoA	120		50 - 200			10/13/25 16:00	10/14/25 12:34	1
13C4 PFBA	129		50 - 200			10/13/25 16:00	10/14/25 12:34	1
13C5 PFPeA	136		50 - 200			10/13/25 16:00	10/14/25 12:34	1
13C3 PFBS	139		50 - 200			10/13/25 16:00	10/14/25 12:34	1
13C3 PFHxS	138		50 - 200			10/13/25 16:00	10/14/25 12:34	1
13C8 PFOS	125		50 - 200			10/13/25 16:00	10/14/25 12:34	1
13C2-4:2-FTS	173		50 - 200			10/13/25 16:00	10/14/25 12:34	1
13C2-6:2-FTS	154		50 - 200			10/13/25 16:00	10/14/25 12:34	1
13C2-8:2-FTS	137		50 - 200			10/13/25 16:00	10/14/25 12:34	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		10/13/25 03:34	10/14/25 05:33	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		10/13/25 03:34	10/14/25 05:33	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		10/13/25 03:34	10/14/25 05:33	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		2.0	ng/L		10/13/25 03:34	10/14/25 05:33	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		2.0	ng/L		10/13/25 03:34	10/14/25 05:33	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-176340-1
SDG: PFAS: Aiea Wells Pumps, Aiea Gulch Wells Pump
1/Pump 2

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

Lab Sample ID: 380-176340-4

Date Collected: 10/07/25 12:00
Date Received: 10/09/25 10:26

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		10/13/25 03:34	10/14/25 05:33	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		10/13/25 03:34	10/14/25 05:33	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		10/13/25 03:34	10/14/25 05:33	1
Perfluorodecanoic acid (PFDA)	2.0		2.0	ng/L		10/13/25 03:34	10/14/25 05:33	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		10/13/25 03:34	10/14/25 05:33	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		10/13/25 03:34	10/14/25 05:33	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		10/13/25 03:34	10/14/25 05:33	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		10/13/25 03:34	10/14/25 05:33	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0	ng/L		10/13/25 03:34	10/14/25 05:33	1
Perfluorotridecanoic acid (PFTrDA)	<2.0		2.0	ng/L		10/13/25 03:34	10/14/25 05:33	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		10/13/25 03:34	10/14/25 05:33	1
11-Chloroeicosafuoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		10/13/25 03:34	10/14/25 05:33	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		10/13/25 03:34	10/14/25 05:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	80		70 - 130			10/13/25 03:34	10/14/25 05:33	1
13C2 PFHxA	81		70 - 130			10/13/25 03:34	10/14/25 05:33	1
13C2 PFDA	96		70 - 130			10/13/25 03:34	10/14/25 05:33	1
13C3-GenX	74		70 - 130			10/13/25 03:34	10/14/25 05:33	1

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

Lab Sample ID: 380-176340-5

Date Collected: 10/07/25 11:00
Date Received: 10/09/25 10:26

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-Chloroeicosafuoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		10/13/25 16:00	10/14/25 12:43	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		10/13/25 16:00	10/14/25 12:43	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		10/13/25 16:00	10/14/25 12:43	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		10/13/25 16:00	10/14/25 12:43	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		10/13/25 16:00	10/14/25 12:43	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		10/13/25 16:00	10/14/25 12:43	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		10/13/25 16:00	10/14/25 12:43	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		10/13/25 16:00	10/14/25 12:43	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		10/13/25 16:00	10/14/25 12:43	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		10/13/25 16:00	10/14/25 12:43	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		10/13/25 16:00	10/14/25 12:43	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		10/13/25 16:00	10/14/25 12:43	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		10/13/25 16:00	10/14/25 12:43	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		10/13/25 16:00	10/14/25 12:43	1
Perfluorobutanoic acid (PFBA)	<2.0		2.0	ng/L		10/13/25 16:00	10/14/25 12:43	1

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Client Sample Results

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

Job ID: 380-176340-1
SDG: PFAS: Aiea Wells Pumps, Aiea Gulch Wells Pump
1/Pump 2

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

Lab Sample ID: 380-176340-5

**Date Collected: 10/07/25 11:00
Date Received: 10/09/25 10:26**

**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		10/13/25 16:00	10/14/25 12:43	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0	ng/L		10/13/25 16:00	10/14/25 12:43	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0	ng/L		10/13/25 16:00	10/14/25 12:43	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		2.0	ng/L		10/13/25 16:00	10/14/25 12:43	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<2.0		2.0	ng/L		10/13/25 16:00	10/14/25 12:43	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		10/13/25 16:00	10/14/25 12:43	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		10/13/25 16:00	10/14/25 12:43	1
Perfluoropentanoic acid (PFPeA)	<2.0		2.0	ng/L		10/13/25 16:00	10/14/25 12:43	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		10/13/25 16:00	10/14/25 12:43	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		10/13/25 16:00	10/14/25 12:43	1
Isotope Dilution	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	114		50 - 200			10/13/25 16:00	10/14/25 12:43	1
13C6 PFDA	118		50 - 200			10/13/25 16:00	10/14/25 12:43	1
13C5 PFHxA	109		50 - 200			10/13/25 16:00	10/14/25 12:43	1
13C4 PFHpA	114		50 - 200			10/13/25 16:00	10/14/25 12:43	1
13C8 PFOA	116		50 - 200			10/13/25 16:00	10/14/25 12:43	1
13C9 PFNA	125		50 - 200			10/13/25 16:00	10/14/25 12:43	1
13C7 PFUnA	114		50 - 200			10/13/25 16:00	10/14/25 12:43	1
13C2 PFDoA	119		50 - 200			10/13/25 16:00	10/14/25 12:43	1
13C4 PFBA	110		50 - 200			10/13/25 16:00	10/14/25 12:43	1
13C5 PFPeA	117		50 - 200			10/13/25 16:00	10/14/25 12:43	1
13C3 PFBS	122		50 - 200			10/13/25 16:00	10/14/25 12:43	1
13C3 PFHxS	120		50 - 200			10/13/25 16:00	10/14/25 12:43	1
13C8 PFOS	121		50 - 200			10/13/25 16:00	10/14/25 12:43	1
13C2-4:2-FTS	149		50 - 200			10/13/25 16:00	10/14/25 12:43	1
13C2-6:2-FTS	139		50 - 200			10/13/25 16:00	10/14/25 12:43	1
13C2-8:2-FTS	135		50 - 200			10/13/25 16:00	10/14/25 12:43	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		10/13/25 03:34	10/14/25 05:43	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		10/13/25 03:34	10/14/25 05:43	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		10/13/25 03:34	10/14/25 05:43	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		2.0	ng/L		10/13/25 03:34	10/14/25 05:43	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		2.0	ng/L		10/13/25 03:34	10/14/25 05:43	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		10/13/25 03:34	10/14/25 05:43	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		10/13/25 03:34	10/14/25 05:43	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		10/13/25 03:34	10/14/25 05:43	1

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Client Sample Results

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

Job ID: 380-176340-1
SDG: PFAS: Aiea Wells Pumps, Aiea Gulch Wells Pump
1/Pump 2

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

Lab Sample ID: 380-176340-5

**Date Collected: 10/07/25 11:00
Date Received: 10/09/25 10:26**

**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
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		10/13/25 03:34	10/14/25 05:43	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		10/13/25 03:34	10/14/25 05:43	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		10/13/25 03:34	10/14/25 05:43	1
Perfluoroheptanoic acid (PFHpA)	2.0		2.0	ng/L		10/13/25 03 34	10/14/25 05 43	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		10/13/25 03:34	10/14/25 05:43	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0	ng/L		10/13/25 03:34	10/14/25 05:43	1
Perfluorotridecanoic acid (PFTTrDA)	<2.0		2.0	ng/L		10/13/25 03:34	10/14/25 05:43	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		10/13/25 03:34	10/14/25 05:43	1
11-Chloroeicosafuoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		10/13/25 03:34	10/14/25 05:43	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		10/13/25 03:34	10/14/25 05:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	111		70 - 130			10/13/25 03:34	10/14/25 05:43	1
13C2 PFHxA	107		70 - 130			10/13/25 03:34	10/14/25 05:43	1
13C2 PFDA	119		70 - 130			10/13/25 03:34	10/14/25 05:43	1
13C3-GenX	109		70 - 130			10/13/25 03:34	10/14/25 05:43	1

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

Lab Sample ID: 380-176340-6

**Date Collected: 10/07/25 11:00
Date Received: 10/09/25 10:26**

**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-Chloroeicosafuoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		10/13/25 16:00	10/15/25 09:39	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		10/13/25 16:00	10/15/25 09:39	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		10/13/25 16:00	10/15/25 09:39	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		10/13/25 16:00	10/15/25 09:39	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		10/13/25 16:00	10/15/25 09:39	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		10/13/25 16:00	10/15/25 09:39	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		10/13/25 16:00	10/15/25 09:39	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		10/13/25 16:00	10/15/25 09:39	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		10/13/25 16:00	10/15/25 09:39	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		10/13/25 16:00	10/15/25 09:39	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		10/13/25 16:00	10/15/25 09:39	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		10/13/25 16:00	10/15/25 09:39	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		10/13/25 16:00	10/15/25 09:39	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		10/13/25 16:00	10/15/25 09:39	1
Perfluorobutanoic acid (PFBA)	<2.0		2.0	ng/L		10/13/25 16:00	10/15/25 09:39	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0	ng/L		10/13/25 16:00	10/15/25 09:39	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0	ng/L		10/13/25 16:00	10/15/25 09:39	1

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Client Sample Results

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

Job ID: 380-176340-1
SDG: PFAS: Aiea Wells Pumps, Aiea Gulch Wells Pump
1/Pump 2

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

Lab Sample ID: 380-176340-6

**Date Collected: 10/07/25 11:00
Date Received: 10/09/25 10:26**

**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-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0	ng/L		10/13/25 16:00	10/15/25 09:39	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		2.0	ng/L		10/13/25 16:00	10/15/25 09:39	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<2.0		2.0	ng/L		10/13/25 16:00	10/15/25 09:39	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		10/13/25 16:00	10/15/25 09:39	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		10/13/25 16:00	10/15/25 09:39	1
Perfluoropentanoic acid (PFPeA)	<2.0		2.0	ng/L		10/13/25 16:00	10/15/25 09:39	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		10/13/25 16:00	10/15/25 09:39	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		10/13/25 16:00	10/15/25 09:39	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	164		50 - 200	10/13/25 16:00	10/15/25 09:39	1
13C6 PFDA	127		50 - 200	10/13/25 16:00	10/15/25 09:39	1
13C5 PFHxA	145		50 - 200	10/13/25 16:00	10/15/25 09:39	1
13C4 PFHpA	141		50 - 200	10/13/25 16:00	10/15/25 09:39	1
13C8 PFOA	129		50 - 200	10/13/25 16:00	10/15/25 09:39	1
13C9 PFNA	132		50 - 200	10/13/25 16:00	10/15/25 09:39	1
13C7 PFUnA	121		50 - 200	10/13/25 16:00	10/15/25 09:39	1
13C2 PFDoA	119		50 - 200	10/13/25 16:00	10/15/25 09:39	1
13C4 PFBA	136		50 - 200	10/13/25 16:00	10/15/25 09:39	1
13C5 PFPeA	144		50 - 200	10/13/25 16:00	10/15/25 09:39	1
13C3 PFBS	147		50 - 200	10/13/25 16:00	10/15/25 09:39	1
13C3 PFHxS	133		50 - 200	10/13/25 16:00	10/15/25 09:39	1
13C8 PFOS	125		50 - 200	10/13/25 16:00	10/15/25 09:39	1
13C2-4:2-FTS	151		50 - 200	10/13/25 16:00	10/15/25 09:39	1
13C2-6:2-FTS	130		50 - 200	10/13/25 16:00	10/15/25 09:39	1
13C2-8:2-FTS	122		50 - 200	10/13/25 16:00	10/15/25 09:39	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		10/13/25 03:34	10/14/25 05:52	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		10/13/25 03:34	10/14/25 05:52	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		10/13/25 03:34	10/14/25 05:52	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		2.0	ng/L		10/13/25 03:34	10/14/25 05:52	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		2.0	ng/L		10/13/25 03:34	10/14/25 05:52	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		10/13/25 03:34	10/14/25 05:52	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		10/13/25 03:34	10/14/25 05:52	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		10/13/25 03:34	10/14/25 05:52	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		10/13/25 03:34	10/14/25 05:52	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		10/13/25 03:34	10/14/25 05:52	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		10/13/25 03:34	10/14/25 05:52	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		10/13/25 03:34	10/14/25 05:52	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-176340-1
 SDG: PFAS: Aiea Wells Pumps, Aiea Gulch Wells Pump
 1/Pump 2

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

Lab Sample ID: 380-176340-6

**Date Collected: 10/07/25 11:00
 Date Received: 10/09/25 10:26**

**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
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		10/13/25 03:34	10/14/25 05:52	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0	ng/L		10/13/25 03:34	10/14/25 05:52	1
Perfluorotridecanoic acid (PFTTrDA)	<2.0		2.0	ng/L		10/13/25 03:34	10/14/25 05:52	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		10/13/25 03:34	10/14/25 05:52	1
11-Chloroeicosafuoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		10/13/25 03:34	10/14/25 05:52	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		10/13/25 03:34	10/14/25 05:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	83		70 - 130			10/13/25 03:34	10/14/25 05:52	1
13C2 PFHxA	85		70 - 130			10/13/25 03:34	10/14/25 05:52	1
13C2 PFDA	95		70 - 130			10/13/25 03:34	10/14/25 05:52	1
13C3-GenX	79		70 - 130			10/13/25 03:34	10/14/25 05:52	1

Action Limit Summary

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

Job ID: 380-176340-1
SDG: PFAS: Aiea Wells Pumps, Aiea Gulch Wells Pump
1/Pump 2

Client Sample ID: AIEA WELLS PUMPS #2

Lab Sample ID: 380-176340-1

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

Client Sample ID: FB AIEA WELLS PUMPS #2

Lab Sample ID: 380-176340-2

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	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 GULCH WELLS PUMP 1

Lab Sample ID: 380-176340-3

(331-201-TP071)

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	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

Eurofins Eaton Analytical Pomona

Action Limit Summary

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

Job ID: 380-176340-1
SDG: PFAS: Aiea Wells Pumps, Aiea Gulch Wells Pump
1/Pump 2

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

Lab Sample ID: 380-176340-3

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

Lab Sample ID: 380-176340-4

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

Lab Sample ID: 380-176340-5

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

Eurofins Eaton Analytical Pomona

Action Limit Summary

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

Job ID: 380-176340-1
SDG: PFAS: Aiea Wells Pumps, Aiea Gulch Wells Pump
1/Pump 2

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

Lab Sample ID: 380-176340-5

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			
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: 380-176340-6

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

Surrogate Summary

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

Job ID: 380-176340-1
 SDG: PFAS: Aiea Wells Pumps, Aiea Gulch Wells Pump
 1/Pump 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)
380-176340-1	AIEA WELLS PUMPS #2	113	112	121	122
380-176340-2	FB AIEA WELLS PUMPS #2	103	101	113	94
380-176340-3	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	102	105	115	95
380-176340-4	FB AIEA GULCH WELLS PUMP 1 (331-201-TP071)	80	81	96	74
380-176340-5	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	111	107	119	109
380-176340-6	FB AIEA GULCH WELLS PUMP 2 (331-202-TP072)	83	85	95	79

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)
380-176167-B-1-A MS	Matrix Spike	114	113	124	118
380-176167-C-1-A MSD	Matrix Spike Duplicate	99	100	111	107
LCS 380-179293/30-A	Lab Control Sample	103	101	110	100
MBL 380-179293/28-A	Method Blank	90	88	100	84
MRL 380-179293/29-A	Lab Control Sample	91	96	103	82

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: 380-176340-1
 SDG: PFAS: Aiea Wells Pumps, Aiea Gulch Wells Pump
 1/Pump 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)
380-176340-1	AIEA WELLS PUMPS #2	80	54	75	71	64	61	50	56
380-176340-2	FB AIEA WELLS PUMPS #2	136	123	140	143	142	138	119	120
380-176340-3	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	109	116	112	112	118	120	116	114
380-176340-4	FB AIEA GULCH WELLS PUMP 1 (331-201-TP071)	131	123	126	134	132	130	119	120
380-176340-5	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	114	118	109	114	116	125	114	119
380-176340-6	FB AIEA GULCH WELLS PUMP 2 (331-202-TP072)	164	127	145	141	129	132	121	119

		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)
380-176340-1	AIEA WELLS PUMPS #2	83	84	113	108	116	116	102	115
380-176340-2	FB AIEA WELLS PUMPS #2	151	156	161	152	132	196	172	142
380-176340-3	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	112	103	113	117	118	142	157	156
380-176340-4	FB AIEA GULCH WELLS PUMP 1 (331-201-TP071)	129	136	139	138	125	173	154	137
380-176340-5	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	110	117	122	120	121	149	139	135
380-176340-6	FB AIEA GULCH WELLS PUMP 2 (331-202-TP072)	136	144	147	133	125	151	130	122

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

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)
380-176291-E-1-B MS	Matrix Spike	100	111	91	97	101	112	114	115
380-176291-F-1-B MSD	Matrix Spike Duplicate	131	120	108	113	118	123	117	121
380-176639-B-1-A MS	Matrix Spike	109	109	104	103	110	111	114	112

Eurofins Eaton Analytical Pomona

Isotope Dilution Summary

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

Job ID: 380-176340-1
 SDG: PFAS: Aiea Wells Pumps, Aiea Gulch Wells Pump
 1/Pump 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)
380-176639-C-1-A MSD	Matrix Spike Duplicate	122	115	114	112	115	118	122	123
LCS 380-179431/22-A	Lab Control Sample	127	121	115	119	124	125	122	121
LCS 380-180048/22-A	Lab Control Sample	107	106	108	103	113	113	109	109
MBL 380-179431/20-A	Method Blank	103	117	98	103	108	121	115	117
MBL 380-180048/20-A	Method Blank	114	121	120	116	121	123	117	117
MRL 380-179431/21-A	Lab Control Sample	128	124	132	128	130	132	117	118
MRL 380-180048/21-A	Lab Control Sample	110	117	121	112	117	121	119	116

		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)
380-176291-E-1-B MS	Matrix Spike	97	98	120	118	119	143	134	130
380-176291-F-1-B MSD	Matrix Spike Duplicate	113	122	128	125	121	155	143	140
380-176639-B-1-A MS	Matrix Spike	104	103	112	108	113	119	156	140
380-176639-C-1-A MSD	Matrix Spike Duplicate	108	109	114	110	121	114	139	134
LCS 380-179431/22-A	Lab Control Sample	119	123	122	123	118	150	136	130
LCS 380-180048/22-A	Lab Control Sample	106	105	111	109	111	116	125	132
MBL 380-179431/20-A	Method Blank	103	104	112	109	115	131	123	132
MBL 380-180048/20-A	Method Blank	117	118	117	118	120	140	149	152
MRL 380-179431/21-A	Lab Control Sample	128	139	140	137	124	171	146	134
MRL 380-180048/21-A	Lab Control Sample	108	105	118	115	117	136	145	148

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: 380-176340-1
SDG: PFAS: Aiea Wells Pumps, Aiea Gulch Wells Pump
1/Pump 2

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

Lab Sample ID: MBL 380-179431/20-A
Matrix: Water
Analysis Batch: 179580

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 179431

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS)	<0.30		2.0	ng/L		10/13/25 16:00	10/14/25 12:14	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS)	<0.30		2.0	ng/L		10/13/25 16:00	10/14/25 12:14	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.60		2.0	ng/L		10/13/25 16:00	10/14/25 12:14	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<1.0		2.0	ng/L		10/13/25 16:00	10/14/25 12:14	1
Perfluorobutanesulfonic acid (PFBS)	<0.37		2.0	ng/L		10/13/25 16:00	10/14/25 12:14	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	ng/L		10/13/25 16:00	10/14/25 12:14	1
Perfluorododecanoic acid (PFDoA)	<0.54		2.0	ng/L		10/13/25 16:00	10/14/25 12:14	1
Perfluoroheptanoic acid (PFHpA)	<0.39		2.0	ng/L		10/13/25 16:00	10/14/25 12:14	1
Perfluorohexanesulfonic acid (PFHxS)	<0.32		2.0	ng/L		10/13/25 16:00	10/14/25 12:14	1
Perfluorohexanoic acid (PFHxA)	<0.46		2.0	ng/L		10/13/25 16:00	10/14/25 12:14	1
Perfluorononanoic acid (PFNA)	<0.40		2.0	ng/L		10/13/25 16:00	10/14/25 12:14	1
Perfluorooctanesulfonic acid (PFOS)	<0.43		2.0	ng/L		10/13/25 16:00	10/14/25 12:14	1
Perfluorooctanoic acid (PFOA)	<0.38		2.0	ng/L		10/13/25 16:00	10/14/25 12:14	1
Perfluoroundecanoic acid (PFUnA)	<0.42		2.0	ng/L		10/13/25 16:00	10/14/25 12:14	1
Perfluorobutanoic acid (PFBA)	<0.69		2.0	ng/L		10/13/25 16:00	10/14/25 12:14	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<0.38		2.0	ng/L		10/13/25 16:00	10/14/25 12:14	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<0.37		2.0	ng/L		10/13/25 16:00	10/14/25 12:14	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<0.48		2.0	ng/L		10/13/25 16:00	10/14/25 12:14	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.47		2.0	ng/L		10/13/25 16:00	10/14/25 12:14	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<0.25		2.0	ng/L		10/13/25 16:00	10/14/25 12:14	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.46		2.0	ng/L		10/13/25 16:00	10/14/25 12:14	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.15		2.0	ng/L		10/13/25 16:00	10/14/25 12:14	1
Perfluoropentanoic acid (PFPeA)	<0.38		2.0	ng/L		10/13/25 16:00	10/14/25 12:14	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.36		2.0	ng/L		10/13/25 16:00	10/14/25 12:14	1
Perfluoropentanesulfonic acid (PFPeS)	<0.39		2.0	ng/L		10/13/25 16:00	10/14/25 12:14	1

Isotope Dilution	MBL %Recovery	MBL Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	103		50 - 200	10/13/25 16:00	10/14/25 12:14	1
13C6 PFDA	117		50 - 200	10/13/25 16:00	10/14/25 12:14	1
13C5 PFHxA	98		50 - 200	10/13/25 16:00	10/14/25 12:14	1
13C4 PFHpA	103		50 - 200	10/13/25 16:00	10/14/25 12:14	1
13C8 PFOA	108		50 - 200	10/13/25 16:00	10/14/25 12:14	1
13C9 PFNA	121		50 - 200	10/13/25 16:00	10/14/25 12:14	1
13C7 PFUnA	115		50 - 200	10/13/25 16:00	10/14/25 12:14	1
13C2 PFDoA	117		50 - 200	10/13/25 16:00	10/14/25 12:14	1
13C4 PFBA	103		50 - 200	10/13/25 16:00	10/14/25 12:14	1
13C5 PFPeA	104		50 - 200	10/13/25 16:00	10/14/25 12:14	1
13C3 PFBS	112		50 - 200	10/13/25 16:00	10/14/25 12:14	1

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-176340-1
SDG: PFAS: Aiea Wells Pumps, Aiea Gulch Wells Pump
1/Pump 2

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

Lab Sample ID: MBL 380-179431/20-A
Matrix: Water
Analysis Batch: 179580

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 179431

<i>Isotope Dilution</i>	<i>MBL %Recovery</i>	<i>MBL Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C3 PFHxS	109		50 - 200	10/13/25 16:00	10/14/25 12:14	1
13C8 PFOS	115		50 - 200	10/13/25 16:00	10/14/25 12:14	1
13C2-4:2-FTS	131		50 - 200	10/13/25 16:00	10/14/25 12:14	1
13C2-6:2-FTS	123		50 - 200	10/13/25 16:00	10/14/25 12:14	1
13C2-8:2-FTS	132		50 - 200	10/13/25 16:00	10/14/25 12:14	1

Lab Sample ID: LCS 380-179431/22-A
Matrix: Water
Analysis Batch: 179580

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 179431

<i>Analyte</i>	<i>Spike Added</i>	<i>LCS Result</i>	<i>LCS Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec Limits</i>
11-Chloroeicosfluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	120	95.2		ng/L		79	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	120	105		ng/L		87	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	120	115		ng/L		96	70 - 130
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	120	103		ng/L		85	70 - 130
Perfluorobutanesulfonic acid (PFBS)	120	113		ng/L		94	70 - 130
Perfluorodecanoic acid (PFDA)	120	116		ng/L		96	70 - 130
Perfluorododecanoic acid (PFDoA)	120	116		ng/L		97	70 - 130
Perfluoroheptanoic acid (PFHpA)	120	112		ng/L		93	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	120	109		ng/L		91	70 - 130
Perfluorohexanoic acid (PFHxA)	120	117		ng/L		97	70 - 130
Perfluorononanoic acid (PFNA)	120	111		ng/L		92	70 - 130
Perfluorooctanesulfonic acid (PFOS)	120	111		ng/L		92	70 - 130
Perfluorooctanoic acid (PFOA)	120	112		ng/L		93	70 - 130
Perfluoroundecanoic acid (PFUnA)	120	116		ng/L		96	70 - 130
Perfluorobutanoic acid (PFBA)	120	111		ng/L		93	70 - 130
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	120	113		ng/L		94	70 - 130
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	120	111		ng/L		92	70 - 130
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	120	118		ng/L		99	70 - 130
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	120	111		ng/L		92	70 - 130
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	120	112		ng/L		93	70 - 130
Perfluoro-3-methoxypropanoic acid (PFMPA)	120	116		ng/L		96	70 - 130
Perfluoro-4-methoxybutanoic acid (PFMBA)	120	112		ng/L		93	70 - 130
Perfluoropentanoic acid (PFPeA)	120	109		ng/L		90	70 - 130

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-176340-1
 SDG: PFAS: Aiea Wells Pumps, Aiea Gulch Wells Pump
 1/Pump 2

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

Lab Sample ID: MRL 380-179431/21-A
Matrix: Water
Analysis Batch: 179580

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 179431

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoroundecanoic acid (PFUnA)	2.01	2.10	J	ng/L		105	50 - 150
Perfluorobutanoic acid (PFBA)	2.01	2.08	J	ng/L		104	50 - 150
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	2.01	2.10	J	ng/L		104	50 - 150
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	2.01	2.26	J	ng/L		113	50 - 150
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	2.01	2.21	J	ng/L		110	50 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	2.01	1.85	J	ng/L		92	50 - 150
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	2.01	1.93	J	ng/L		96	50 - 150
Perfluoro-3-methoxypropanoic acid (PFMPA)	2.01	2.02	J	ng/L		101	50 - 150
Perfluoro-4-methoxybutanoic acid (PFMBA)	2.01	1.88	J	ng/L		94	50 - 150
Perfluoropentanoic acid (PFPeA)	2.01	1.98	J	ng/L		98	50 - 150
Perfluoroheptanesulfonic acid (PFHpS)	2.01	2.10	J	ng/L		105	50 - 150
Perfluoropentanesulfonic acid (PFPeS)	2.01	1.92	J	ng/L		95	50 - 150

Isotope Dilution	MRL %Recovery	MRL Qualifier	Limits
13C3 HFPO-DA	128		50 - 200
13C6 PFDA	124		50 - 200
13C5 PFHxA	132		50 - 200
13C4 PFHpA	128		50 - 200
13C8 PFOA	130		50 - 200
13C9 PFNA	132		50 - 200
13C7 PFUnA	117		50 - 200
13C2 PFDoA	118		50 - 200
13C4 PFBA	128		50 - 200
13C5 PFPeA	139		50 - 200
13C3 PFBS	140		50 - 200
13C3 PFHxS	137		50 - 200
13C8 PFOS	124		50 - 200
13C2-4:2-FTS	171		50 - 200
13C2-6:2-FTS	146		50 - 200
13C2-8:2-FTS	134		50 - 200

Lab Sample ID: 380-176291-E-1-B MS
Matrix: Water
Analysis Batch: 179580

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 179431

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
11-Chloroeicosfluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		121	97.5		ng/L		81	70 - 130

QC Sample Results

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

Job ID: 380-176340-1
 SDG: PFAS: Aiea Wells Pumps, Aiea Gulch Wells Pump
 1/Pump 2

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

Lab Sample ID: 380-176291-E-1-B MS
Matrix: Water
Analysis Batch: 179580

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 179431

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier	Added	Result	Qualifier				
9-Chlorohexadecafluoro-3-oxanone-1-sulfonic acid(9Cl-PF3ONS)	<2.0		121	105		ng/L		87	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		121	107		ng/L		89	70 - 130
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		121	108		ng/L		90	70 - 130
Perfluorobutanesulfonic acid (PFBS)	2.7		121	112		ng/L		90	70 - 130
Perfluorodecanoic acid (PFDA)	<2.0		121	119		ng/L		99	70 - 130
Perfluorododecanoic acid (PFDoA)	<2.0		121	116		ng/L		96	70 - 130
Perfluoroheptanoic acid (PFHpA)	<2.0		121	116		ng/L		95	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	3.2		121	115		ng/L		93	70 - 130
Perfluorohexanoic acid (PFHxA)	3.7		121	122		ng/L		98	70 - 130
Perfluorononanoic acid (PFNA)	<2.0		121	109		ng/L		90	70 - 130
Perfluorooctanesulfonic acid (PFOS)	4.3		121	116		ng/L		93	70 - 130
Perfluorooctanoic acid (PFOA)	3.6		121	123		ng/L		99	70 - 130
Perfluoroundecanoic acid (PFUnA)	<2.0		121	115		ng/L		96	70 - 130
Perfluorobutanoic acid (PFBA)	<2.0		121	116		ng/L		95	70 - 130
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		121	115		ng/L		95	70 - 130
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		121	112		ng/L		93	70 - 130
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		121	115		ng/L		95	70 - 130
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		121	107		ng/L		89	70 - 130
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<2.0		121	111		ng/L		92	70 - 130
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		121	111		ng/L		92	70 - 130
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		121	117		ng/L		97	70 - 130
Perfluoropentanoic acid (PFPeA)	3.4		121	115		ng/L		92	70 - 130
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		121	112		ng/L		93	70 - 130
Perfluoropentanesulfonic acid (PFPeS)	<2.0		121	114		ng/L		94	70 - 130

Isotope Dilution	MS	MS	Limits
	%Recovery	Qualifier	
13C3 HFPO-DA	100		50 - 200
13C6 PFDA	111		50 - 200
13C5 PFHxA	91		50 - 200
13C4 PFHpA	97		50 - 200
13C8 PFOA	101		50 - 200
13C9 PFNA	112		50 - 200
13C7 PFUnA	114		50 - 200
13C2 PFDoA	115		50 - 200

QC Sample Results

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

Job ID: 380-176340-1
 SDG: PFAS: Aiea Wells Pumps, Aiea Gulch Wells Pump
 1/Pump 2

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

Lab Sample ID: 380-176291-E-1-B MS
Matrix: Water
Analysis Batch: 179580

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 179431

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>MS MS Qualifier</i>	<i>Limits</i>
13C4 PFBA	97		50 - 200
13C5 PFPeA	98		50 - 200
13C3 PFBS	120		50 - 200
13C3 PFHxS	118		50 - 200
13C8 PFOS	119		50 - 200
13C2-4:2-FTS	143		50 - 200
13C2-6:2-FTS	134		50 - 200
13C2-8:2-FTS	130		50 - 200

Lab Sample ID: 380-176291-F-1-B MSD
Matrix: Water
Analysis Batch: 179580

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 179431

<i>Analyte</i>	<i>Sample Result</i>	<i>Sample Qualifier</i>	<i>Spike Added</i>	<i>MSD Result</i>	<i>MSD Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec Limits</i>	<i>RPD</i>	<i>RPD Limit</i>
11-Chloroeicosfluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		121	98.6		ng/L		82	70 - 130	1	30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		121	108		ng/L		90	70 - 130	3	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		121	114		ng/L		95	70 - 130	6	30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		121	102		ng/L		84	70 - 130	6	30
Perfluorobutanesulfonic acid (PFBS)	2.7		121	110		ng/L		89	70 - 130	2	30
Perfluorodecanoic acid (PFDA)	<2.0		121	119		ng/L		98	70 - 130	1	30
Perfluorododecanoic acid (PFDoA)	<2.0		121	117		ng/L		97	70 - 130	1	30
Perfluoroheptanoic acid (PFHpA)	<2.0		121	113		ng/L		93	70 - 130	2	30
Perfluorohexanesulfonic acid (PFHxS)	3.2		121	112		ng/L		90	70 - 130	3	30
Perfluorohexanoic acid (PFHxA)	3.7		121	121		ng/L		97	70 - 130	0	30
Perfluorononanoic acid (PFNA)	<2.0		121	114		ng/L		94	70 - 130	4	30
Perfluorooctanesulfonic acid (PFOS)	4.3		121	116		ng/L		93	70 - 130	0	30
Perfluorooctanoic acid (PFOA)	3.6		121	119		ng/L		96	70 - 130	3	30
Perfluoroundecanoic acid (PFUnA)	<2.0		121	117		ng/L		97	70 - 130	2	30
Perfluorobutanoic acid (PFBA)	<2.0		121	114		ng/L		94	70 - 130	2	30
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		121	115		ng/L		95	70 - 130	0	30
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		121	114		ng/L		95	70 - 130	2	30
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		121	116		ng/L		96	70 - 130	0	30
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		121	115		ng/L		95	70 - 130	7	30
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<2.0		121	109		ng/L		90	70 - 130	2	30
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		121	118		ng/L		98	70 - 130	6	30

QC Sample Results

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

Job ID: 380-176340-1
SDG: PFAS: Aiea Wells Pumps, Aiea Gulch Wells Pump
1/Pump 2

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

Lab Sample ID: 380-176291-F-1-B MSD
Matrix: Water
Analysis Batch: 179580

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 179431

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		121	114		ng/L		94	70 - 130	3	30
Perfluoropentanoic acid (PFPeA)	3.4		121	110		ng/L		88	70 - 130	4	30
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		121	112		ng/L		93	70 - 130	0	30
Perfluoropentanesulfonic acid (PFPeS)	<2.0		121	114		ng/L		94	70 - 130	0	30
		MSD	MSD								
Isotope Dilution		%Recovery	Qualifier	Limits							
13C3 HFPO-DA		131		50 - 200							
13C6 PFDA		120		50 - 200							
13C5 PFHxA		108		50 - 200							
13C4 PFHpA		113		50 - 200							
13C8 PFOA		118		50 - 200							
13C9 PFNA		123		50 - 200							
13C7 PFUnA		117		50 - 200							
13C2 PFDoA		121		50 - 200							
13C4 PFBA		113		50 - 200							
13C5 PFPeA		122		50 - 200							
13C3 PFBS		128		50 - 200							
13C3 PFHxS		125		50 - 200							
13C8 PFOS		121		50 - 200							
13C2-4:2-FTS		155		50 - 200							
13C2-6:2-FTS		143		50 - 200							
13C2-8:2-FTS		140		50 - 200							

Lab Sample ID: MBL 380-180048/20-A
Matrix: Water
Analysis Batch: 180156

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 180048

Analyte	MBL	MBL	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
11-Chloroeicosfluoro-3-oxaundecanoic acid (11Cl-PF3OUdS)	<0.30		2.0	ng/L		10/15/25 20:01	10/16/25 08:34	1
9-Chlorohexadecafluoro-3-oxanonanoic acid (9Cl-PF3ONS)	<0.30		2.0	ng/L		10/15/25 20:01	10/16/25 08:34	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.60		2.0	ng/L		10/15/25 20:01	10/16/25 08:34	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<1.0		2.0	ng/L		10/15/25 20:01	10/16/25 08:34	1
Perfluorobutanesulfonic acid (PFBS)	<0.37		2.0	ng/L		10/15/25 20:01	10/16/25 08:34	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	ng/L		10/15/25 20:01	10/16/25 08:34	1
Perfluorododecanoic acid (PFDoA)	<0.54		2.0	ng/L		10/15/25 20:01	10/16/25 08:34	1
Perfluoroheptanoic acid (PFHpA)	<0.39		2.0	ng/L		10/15/25 20:01	10/16/25 08:34	1
Perfluorohexanesulfonic acid (PFHxS)	<0.32		2.0	ng/L		10/15/25 20:01	10/16/25 08:34	1
Perfluorohexanoic acid (PFHxA)	<0.46		2.0	ng/L		10/15/25 20:01	10/16/25 08:34	1
Perfluorononanoic acid (PFNA)	<0.40		2.0	ng/L		10/15/25 20:01	10/16/25 08:34	1
Perfluorooctanesulfonic acid (PFOS)	<0.43		2.0	ng/L		10/15/25 20:01	10/16/25 08:34	1
Perfluorooctanoic acid (PFOA)	<0.38		2.0	ng/L		10/15/25 20:01	10/16/25 08:34	1
Perfluoroundecanoic acid (PFUnA)	<0.42		2.0	ng/L		10/15/25 20:01	10/16/25 08:34	1
Perfluorobutanoic acid (PFBA)	<0.69		2.0	ng/L		10/15/25 20:01	10/16/25 08:34	1

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-176340-1
SDG: PFAS: Aiea Wells Pumps, Aiea Gulch Wells Pump
1/Pump 2

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

Lab Sample ID: MBL 380-180048/20-A
Matrix: Water
Analysis Batch: 180156

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 180048

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<0.38		2.0	ng/L		10/15/25 20:01	10/16/25 08:34	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<0.37		2.0	ng/L		10/15/25 20:01	10/16/25 08:34	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	0.48		2.0	ng/L		10/15/25 20:01	10/16/25 08:34	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.47		2.0	ng/L		10/15/25 20:01	10/16/25 08:34	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<0.25		2.0	ng/L		10/15/25 20:01	10/16/25 08:34	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.46		2.0	ng/L		10/15/25 20:01	10/16/25 08:34	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.15		2.0	ng/L		10/15/25 20:01	10/16/25 08:34	1
Perfluoropentanoic acid (PFPeA)	<0.38		2.0	ng/L		10/15/25 20:01	10/16/25 08:34	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.36		2.0	ng/L		10/15/25 20:01	10/16/25 08:34	1
Perfluoropentanesulfonic acid (PFPeS)	<0.39		2.0	ng/L		10/15/25 20:01	10/16/25 08:34	1

Isotope Dilution	MBL %Recovery	MBL Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	114		50 - 200	10/15/25 20:01	10/16/25 08:34	1
13C6 PFDA	121		50 - 200	10/15/25 20:01	10/16/25 08:34	1
13C5 PFHxA	120		50 - 200	10/15/25 20:01	10/16/25 08:34	1
13C4 PFHpA	116		50 - 200	10/15/25 20:01	10/16/25 08:34	1
13C8 PFOA	121		50 - 200	10/15/25 20:01	10/16/25 08:34	1
13C9 PFNA	123		50 - 200	10/15/25 20:01	10/16/25 08:34	1
13C7 PFUnA	117		50 - 200	10/15/25 20:01	10/16/25 08:34	1
13C2 PFDoA	117		50 - 200	10/15/25 20:01	10/16/25 08:34	1
13C4 PFBA	117		50 - 200	10/15/25 20:01	10/16/25 08:34	1
13C5 PFPeA	118		50 - 200	10/15/25 20:01	10/16/25 08:34	1
13C3 PFBS	117		50 - 200	10/15/25 20:01	10/16/25 08:34	1
13C3 PFHxS	118		50 - 200	10/15/25 20:01	10/16/25 08:34	1
13C8 PFOS	120		50 - 200	10/15/25 20:01	10/16/25 08:34	1
13C2-4:2-FTS	140		50 - 200	10/15/25 20:01	10/16/25 08:34	1
13C2-6:2-FTS	149		50 - 200	10/15/25 20:01	10/16/25 08:34	1
13C2-8:2-FTS	152		50 - 200	10/15/25 20:01	10/16/25 08:34	1

Lab Sample ID: LCS 380-180048/22-A
Matrix: Water
Analysis Batch: 180156

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 180048

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
11-Chloroeicosfluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	60.2	61.6		ng/L		102	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	60.2	55.4		ng/L		92	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	60.2	62.4		ng/L		104	70 - 130

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-176340-1
 SDG: PFAS: Aiea Wells Pumps, Aiea Gulch Wells Pump
 1/Pump 2

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

Lab Sample ID: LCS 380-180048/22-A
Matrix: Water
Analysis Batch: 180156

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 180048

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Hexafluoropropylene Oxide	60.2	59.1		ng/L		98	70 - 130
Dimer Acid (HFPO-DA/GenX)							
Perfluorobutanesulfonic acid (PFBS)	60.2	60.5		ng/L		100	70 - 130
Perfluorodecanoic acid (PFDA)	60.2	59.8		ng/L		99	70 - 130
Perfluorododecanoic acid (PFDoA)	60.2	60.3		ng/L		100	70 - 130
Perfluoroheptanoic acid (PFHpA)	60.2	58.5		ng/L		97	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	60.2	60.7		ng/L		101	70 - 130
Perfluorohexanoic acid (PFHxA)	60.2	60.2		ng/L		100	70 - 130
Perfluorononanoic acid (PFNA)	60.2	59.4		ng/L		99	70 - 130
Perfluorooctanesulfonic acid (PFOS)	60.2	56.8		ng/L		94	70 - 130
Perfluorooctanoic acid (PFOA)	60.2	57.2		ng/L		95	70 - 130
Perfluoroundecanoic acid (PFUnA)	60.2	60.0		ng/L		100	70 - 130
Perfluorobutanoic acid (PFBA)	60.2	60.2		ng/L		100	70 - 130
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	60.2	59.5		ng/L		99	70 - 130
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	60.2	63.9		ng/L		106	70 - 130
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	60.2	62.2		ng/L		103	70 - 130
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	60.2	53.1		ng/L		88	70 - 130
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	60.2	56.8		ng/L		94	70 - 130
Perfluoro-3-methoxypropanoic acid (PFMPA)	60.2	58.5		ng/L		97	70 - 130
Perfluoro-4-methoxybutanoic acid (PFMBA)	60.2	61.3		ng/L		102	70 - 130
Perfluoropentanoic acid (PFPeA)	60.2	58.6		ng/L		97	70 - 130
Perfluoroheptanesulfonic acid (PFHpS)	60.2	59.9		ng/L		100	70 - 130
Perfluoropentanesulfonic acid (PFPeS)	60.2	59.9		ng/L		99	70 - 130

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C3 HFPO-DA	107		50 - 200
13C6 PFDA	106		50 - 200
13C5 PFHxA	108		50 - 200
13C4 PFHpA	103		50 - 200
13C8 PFOA	113		50 - 200
13C9 PFNA	113		50 - 200
13C7 PFUnA	109		50 - 200
13C2 PFDoA	109		50 - 200
13C4 PFBA	106		50 - 200
13C5 PFPeA	105		50 - 200
13C3 PFBS	111		50 - 200
13C3 PFHxS	109		50 - 200

QC Sample Results

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

Job ID: 380-176340-1
SDG: PFAS: Aiea Wells Pumps, Aiea Gulch Wells Pump
1/Pump 2

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

Lab Sample ID: LCS 380-180048/22-A
Matrix: Water
Analysis Batch: 180156

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 180048

Isotope Dilution	LCS LCS		Limits
	%Recovery	Qualifier	
13C8 PFOS	111		50 - 200
13C2-4:2-FTS	116		50 - 200
13C2-6:2-FTS	125		50 - 200
13C2-8:2-FTS	132		50 - 200

Lab Sample ID: MRL 380-180048/21-A
Matrix: Water
Analysis Batch: 180156

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 180048

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec
							Limits
11-Chloroeicosfluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.01	2.20	J	ng/L		110	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	2.01	2.06	J	ng/L		103	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	2.01	2.14	J	ng/L		107	50 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	2.01	2.11	J	ng/L		105	50 - 150
Perfluorobutanesulfonic acid (PFBS)	2.01	2.12	J	ng/L		105	50 - 150
Perfluorodecanoic acid (PFDA)	2.01	2.25	J	ng/L		112	50 - 150
Perfluorododecanoic acid (PFDoA)	2.01	2.18	J	ng/L		108	50 - 150
Perfluoroheptanoic acid (PFHpA)	2.01	1.96	J	ng/L		97	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	2.01	2.14	J	ng/L		107	50 - 150
Perfluorohexanoic acid (PFHxA)	2.01	2.03	J	ng/L		101	50 - 150
Perfluorononanoic acid (PFNA)	2.01	2.19	J	ng/L		109	50 - 150
Perfluorooctanesulfonic acid (PFOS)	2.01	2.15	J	ng/L		107	50 - 150
Perfluorooctanoic acid (PFOA)	2.01	2.28	J	ng/L		114	50 - 150
Perfluoroundecanoic acid (PFUnA)	2.01	2.16	J	ng/L		108	50 - 150
Perfluorobutanoic acid (PFBA)	2.01	2.15	J	ng/L		107	50 - 150
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	2.01	2.26	J	ng/L		113	50 - 150
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	2.01	2.57	J	ng/L		128	50 - 150
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	2.01	2.20	J	ng/L		110	50 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	2.01	1.86	J	ng/L		93	50 - 150
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	2.01	2.13	J	ng/L		106	50 - 150
Perfluoro-3-methoxypropanoic acid (PFMPA)	2.01	2.13	J	ng/L		106	50 - 150
Perfluoro-4-methoxybutanoic acid (PFMBA)	2.01	2.13	J	ng/L		106	50 - 150
Perfluoropentanoic acid (PFPeA)	2.01	2.17	J	ng/L		108	50 - 150

QC Sample Results

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

Job ID: 380-176340-1
SDG: PFAS: Aiea Wells Pumps, Aiea Gulch Wells Pump
1/Pump 2

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

Lab Sample ID: MRL 380-180048/21-A
Matrix: Water
Analysis Batch: 180156

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 180048

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoroheptanesulfonic acid (PFHpS)	2.01	2.21	J	ng/L		110	50 - 150
Perfluoropentanesulfonic acid (PFPeS)	2.01	2.11	J	ng/L		105	50 - 150
Isotope Dilution	MRL %Recovery	MRL Qualifier	Limits				
13C3 HFPO-DA	110		50 - 200				
13C6 PFDA	117		50 - 200				
13C5 PFHxA	121		50 - 200				
13C4 PFHpA	112		50 - 200				
13C8 PFOA	117		50 - 200				
13C9 PFNA	121		50 - 200				
13C7 PFUnA	119		50 - 200				
13C2 PFDoA	116		50 - 200				
13C4 PFBA	108		50 - 200				
13C5 PFPeA	105		50 - 200				
13C3 PFBS	118		50 - 200				
13C3 PFHxS	115		50 - 200				
13C8 PFOS	117		50 - 200				
13C2-4:2-FTS	136		50 - 200				
13C2-6:2-FTS	145		50 - 200				
13C2-8:2-FTS	148		50 - 200				

Lab Sample ID: 380-176639-B-1-A MS
Matrix: Water
Analysis Batch: 180156

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 180048

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
11-Chloroeicosfluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		120	126		ng/L		105	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		120	110		ng/L		91	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		120	120		ng/L		100	70 - 130
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		120	117		ng/L		97	70 - 130
Perfluorobutanesulfonic acid (PFBS)	<2.0		120	117		ng/L		97	70 - 130
Perfluorodecanoic acid (PFDA)	<2.0		120	122		ng/L		101	70 - 130
Perfluorododecanoic acid (PFDoA)	<2.0		120	116		ng/L		96	70 - 130
Perfluoroheptanoic acid (PFHpA)	<2.0		120	115		ng/L		96	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	<2.0		120	123		ng/L		102	70 - 130
Perfluorohexanoic acid (PFHxA)	<2.0		120	115		ng/L		95	70 - 130
Perfluorononanoic acid (PFNA)	<2.0		120	115		ng/L		96	70 - 130
Perfluorooctanesulfonic acid (PFOS)	<2.0		120	114		ng/L		94	70 - 130
Perfluorooctanoic acid (PFOA)	<2.0		120	119		ng/L		99	70 - 130

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-176340-1
SDG: PFAS: Aiea Wells Pumps, Aiea Gulch Wells Pump
1/Pump 2

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

Lab Sample ID: 380-176639-B-1-A MS
Matrix: Water
Analysis Batch: 180156

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 180048

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoroundecanoic acid (PFUnA)	<2.0		120	117		ng/L		97	70 - 130
Perfluorobutanoic acid (PFBA)	<2.0		120	118		ng/L		98	70 - 130
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		120	108		ng/L		90	70 - 130
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		120	115		ng/L		96	70 - 130
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		120	111		ng/L		92	70 - 130
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		120	107		ng/L		89	70 - 130
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<2.0		120	103		ng/L		85	70 - 130
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		120	113		ng/L		94	70 - 130
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		120	121		ng/L		100	70 - 130
Perfluoropentanoic acid (PFPeA)	<2.0		120	116		ng/L		97	70 - 130
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		120	115		ng/L		96	70 - 130
Perfluoropentanesulfonic acid (PFPeS)	<2.0		120	120		ng/L		100	70 - 130

Isotope Dilution	MS %Recovery	MS Qualifier	MS Limits
13C3 HFPO-DA	109		50 - 200
13C6 PFDA	109		50 - 200
13C5 PFHxA	104		50 - 200
13C4 PFHpA	103		50 - 200
13C8 PFOA	110		50 - 200
13C9 PFNA	111		50 - 200
13C7 PFUnA	114		50 - 200
13C2 PFDoA	112		50 - 200
13C4 PFBA	104		50 - 200
13C5 PFPeA	103		50 - 200
13C3 PFBS	112		50 - 200
13C3 PFHxS	108		50 - 200
13C8 PFOS	113		50 - 200
13C2-4:2-FTS	119		50 - 200
13C2-6:2-FTS	156		50 - 200
13C2-8:2-FTS	140		50 - 200

Lab Sample ID: 380-176639-C-1-A MSD
Matrix: Water
Analysis Batch: 180156

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 180048

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
11-Chloroeicosfluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		121	122		ng/L		101	70 - 130	4	30

QC Sample Results

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

Job ID: 380-176340-1
SDG: PFAS: Aiea Wells Pumps, Aiea Gulch Wells Pump
1/Pump 2

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

Lab Sample ID: 380-176639-C-1-A MSD
Matrix: Water
Analysis Batch: 180156

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 180048

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
9-Chlorohexadecafluoro-3-oxanone-1-sulfonic acid(9Cl-PF3ONS)	<2.0		121	106		ng/L		88	70 - 130	4	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		121	116		ng/L		96	70 - 130	4	30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		121	116		ng/L		96	70 - 130	1	30
Perfluorobutanesulfonic acid (PFBS)	<2.0		121	119		ng/L		98	70 - 130	2	30
Perfluorodecanoic acid (PFDA)	<2.0		121	116		ng/L		96	70 - 130	5	30
Perfluorododecanoic acid (PFDoA)	<2.0		121	112		ng/L		93	70 - 130	4	30
Perfluoroheptanoic acid (PFHpA)	<2.0		121	114		ng/L		95	70 - 130	1	30
Perfluorohexanesulfonic acid (PFHxS)	<2.0		121	124		ng/L		103	70 - 130	1	30
Perfluorohexanoic acid (PFHxA)	<2.0		121	116		ng/L		96	70 - 130	1	30
Perfluorononanoic acid (PFNA)	<2.0		121	118		ng/L		97	70 - 130	2	30
Perfluorooctanesulfonic acid (PFOS)	<2.0		121	109		ng/L		90	70 - 130	4	30
Perfluorooctanoic acid (PFOA)	<2.0		121	122		ng/L		101	70 - 130	2	30
Perfluoroundecanoic acid (PFUnA)	<2.0		121	115		ng/L		95	70 - 130	2	30
Perfluorobutanoic acid (PFBA)	<2.0		121	121		ng/L		100	70 - 130	3	30
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		121	114		ng/L		95	70 - 130	5	30
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		121	119		ng/L		98	70 - 130	3	30
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		121	121		ng/L		100	70 - 130	8	30
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		121	107		ng/L		88	70 - 130	0	30
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<2.0		121	107		ng/L		88	70 - 130	4	30
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		121	119		ng/L		98	70 - 130	5	30
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		121	120		ng/L		99	70 - 130	1	30
Perfluoropentanoic acid (PFPeA)	<2.0		121	118		ng/L		98	70 - 130	2	30
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		121	114		ng/L		94	70 - 130	1	30
Perfluoropentanesulfonic acid (PFPeS)	<2.0		121	124		ng/L		102	70 - 130	3	30

Isotope Dilution	MSD	MSD	Limits
	%Recovery	Qualifier	
13C3 HFPO-DA	122		50 - 200
13C6 PFDA	115		50 - 200
13C5 PFHxA	114		50 - 200
13C4 PFHpA	112		50 - 200
13C8 PFOA	115		50 - 200
13C9 PFNA	118		50 - 200
13C7 PFUnA	122		50 - 200
13C2 PFDoA	123		50 - 200

QC Sample Results

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

Job ID: 380-176340-1
SDG: PFAS: Aiea Wells Pumps, Aiea Gulch Wells Pump
1/Pump 2

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

Lab Sample ID: 380-176639-C-1-A MSD
Matrix: Water
Analysis Batch: 180156

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 180048

<i>Isotope Dilution</i>	<i>MSD %Recovery</i>	<i>MSD Qualifier</i>	<i>Limits</i>
13C4 PFBA	108		50 - 200
13C5 PFPeA	109		50 - 200
13C3 PFBS	114		50 - 200
13C3 PFHxS	110		50 - 200
13C8 PFOS	121		50 - 200
13C2-4:2-FTS	114		50 - 200
13C2-6:2-FTS	139		50 - 200
13C2-8:2-FTS	134		50 - 200

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

Lab Sample ID: MBL 380-179293/28-A
Matrix: Water
Analysis Batch: 179426

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 179293

<i>Analyte</i>	<i>MBL Result</i>	<i>MBL Qualifier</i>	<i>RL</i>	<i>Unit</i>	<i>D</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<1.0		2.0	ng/L		10/13/25 03:34	10/14/25 00:46	1
Perfluorooctanesulfonic acid (PFOS)	<0.43		2.0	ng/L		10/13/25 03:34	10/14/25 00:46	1
Perfluoroundecanoic acid (PFUnA)	<0.42		2.0	ng/L		10/13/25 03:34	10/14/25 00:46	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.58		2.0	ng/L		10/13/25 03:34	10/14/25 00:46	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.42		2.0	ng/L		10/13/25 03:34	10/14/25 00:46	1
Perfluorohexanoic acid (PFHxA)	<0.46		2.0	ng/L		10/13/25 03:34	10/14/25 00:46	1
Perfluorododecanoic acid (PFDoA)	<0.54		2.0	ng/L		10/13/25 03:34	10/14/25 00:46	1
Perfluorooctanoic acid (PFOA)	<0.38		2.0	ng/L		10/13/25 03:34	10/14/25 00:46	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	ng/L		10/13/25 03:34	10/14/25 00:46	1
Perfluorohexanesulfonic acid (PFHxS)	<0.32		2.0	ng/L		10/13/25 03:34	10/14/25 00:46	1
Perfluorobutanesulfonic acid (PFBS)	<0.37		2.0	ng/L		10/13/25 03:34	10/14/25 00:46	1
Perfluoroheptanoic acid (PFHpA)	<0.39		2.0	ng/L		10/13/25 03:34	10/14/25 00:46	1
Perfluorononanoic acid (PFNA)	<0.40		2.0	ng/L		10/13/25 03:34	10/14/25 00:46	1
Perfluorotetradecanoic acid (PFTA)	<0.54		2.0	ng/L		10/13/25 03:34	10/14/25 00:46	1
Perfluorotridecanoic acid (PFTrDA)	<0.36		2.0	ng/L		10/13/25 03:34	10/14/25 00:46	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	<0.30		2.0	ng/L		10/13/25 03:34	10/14/25 00:46	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<0.30		2.0	ng/L		10/13/25 03:34	10/14/25 00:46	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.60		2.0	ng/L		10/13/25 03:34	10/14/25 00:46	1

<i>Surrogate</i>	<i>MBL %Recovery</i>	<i>MBL Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
d5-NEtFOSAA	90		70 - 130	10/13/25 03:34	10/14/25 00:46	1
13C2 PFHxA	88		70 - 130	10/13/25 03:34	10/14/25 00:46	1
13C2 PFDA	100		70 - 130	10/13/25 03:34	10/14/25 00:46	1
13C3-GenX	84		70 - 130	10/13/25 03:34	10/14/25 00:46	1

QC Sample Results

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

Job ID: 380-176340-1
 SDG: PFAS: Aiea Wells Pumps, Aiea Gulch Wells Pump
 1/Pump 2

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

Lab Sample ID: LCS 380-179293/30-A
Matrix: Water
Analysis Batch: 179426

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 179293

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	25.2	22.1		ng/L		88	70 - 130
Perfluorooctanesulfonic acid (PFOS)	25.2	25.3		ng/L		100	70 - 130
Perfluoroundecanoic acid (PFUnA)	25.2	25.5		ng/L		101	70 - 130
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	25.2	25.3		ng/L		101	70 - 130
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	25.2	24.0		ng/L		95	70 - 130
Perfluorohexanoic acid (PFHxA)	25.2	23.4		ng/L		93	70 - 130
Perfluorododecanoic acid (PFDoA)	25.2	24.4		ng/L		97	70 - 130
Perfluorooctanoic acid (PFOA)	25.2	25.1		ng/L		100	70 - 130
Perfluorodecanoic acid (PFDA)	25.2	25.4		ng/L		101	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	25.2	26.0		ng/L		103	70 - 130
Perfluorobutanesulfonic acid (PFBS)	25.2	25.1		ng/L		100	70 - 130
Perfluoroheptanoic acid (PFHpA)	25.2	23.6		ng/L		94	70 - 130
Perfluorononanoic acid (PFNA)	25.2	25.4		ng/L		101	70 - 130
Perfluorotetradecanoic acid (PFTA)	25.2	20.2		ng/L		80	70 - 130
Perfluorotridecanoic acid (PFTTrDA)	25.2	25.3		ng/L		101	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	25.2	23.7		ng/L		94	70 - 130
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	25.2	22.2		ng/L		88	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	25.2	23.5		ng/L		93	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
d5-NEtFOSAA	103		70 - 130
13C2 PFHxA	101		70 - 130
13C2 PFDA	110		70 - 130
13C3-GenX	100		70 - 130

Lab Sample ID: MRL 380-179293/29-A
Matrix: Water
Analysis Batch: 179426

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 179293

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	2.01	1.72	J	ng/L		85	50 - 150
Perfluorooctanesulfonic acid (PFOS)	2.01	2.09	J	ng/L		104	50 - 150
Perfluoroundecanoic acid (PFUnA)	2.01	2.06	J	ng/L		103	50 - 150

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-176340-1
SDG: PFAS: Aiea Wells Pumps, Aiea Gulch Wells Pump
1/Pump 2

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

Lab Sample ID: MRL 380-179293/29-A
Matrix: Water
Analysis Batch: 179426

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 179293

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.01	1.85	J	ng/L		92	50 - 150
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.01	1.76	J	ng/L		87	50 - 150
Perfluorohexanoic acid (PFHxA)	2.01	1.88	J	ng/L		93	50 - 150
Perfluorododecanoic acid (PFDoA)	2.01	2.05	J	ng/L		102	50 - 150
Perfluorooctanoic acid (PFOA)	2.01	1.99	J	ng/L		99	50 - 150
Perfluorodecanoic acid (PFDA)	2.01	2.10	J	ng/L		104	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	2.01	2.14	J	ng/L		106	50 - 150
Perfluorobutanesulfonic acid (PFBS)	2.01	2.14	J	ng/L		107	50 - 150
Perfluoroheptanoic acid (PFHpA)	2.01	1.94	J	ng/L		96	50 - 150
Perfluorononanoic acid (PFNA)	2.01	2.02	J	ng/L		100	50 - 150
Perfluorotetradecanoic acid (PFTA)	2.01	1.89	J	ng/L		94	50 - 150
Perfluorotridecanoic acid (PFTrDA)	2.01	2.03	J	ng/L		101	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	2.01	1.94	J	ng/L		96	50 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.01	1.80	J	ng/L		90	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	2.01	1.76	J	ng/L		87	50 - 150

Surrogate	MRL %Recovery	MRL Qualifier	MRL Limits
d5-NEtFOSAA	91		70 - 130
13C2 PFHxA	96		70 - 130
13C2 PFDA	103		70 - 130
13C3-GenX	82		70 - 130

Lab Sample ID: 380-176167-B-1-A MS
Matrix: Water
Analysis Batch: 179426

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 179293

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		25.0	23.1		ng/L		92	70 - 130
Perfluorooctanesulfonic acid (PFOS)	<2.0		25.0	27.2		ng/L		102	70 - 130
Perfluoroundecanoic acid (PFUnA)	<2.0		25.0	26.4		ng/L		106	70 - 130
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		25.0	25.1		ng/L		101	70 - 130
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		25.0	23.7		ng/L		95	70 - 130
Perfluorohexanoic acid (PFHxA)	<2.0		25.0	24.8		ng/L		95	70 - 130
Perfluorododecanoic acid (PFDoA)	<2.0		25.0	25.2		ng/L		101	70 - 130

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-176340-1
 SDG: PFAS: Aiea Wells Pumps, Aiea Gulch Wells Pump
 1/Pump 2

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

Lab Sample ID: 380-176167-C-1-A MSD

Matrix: Water

Analysis Batch: 179426

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 179293

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec		RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits	RPD		
Perfluoroheptanoic acid (PFHpA)	<2.0		25.0	23.7		ng/L		92	70 - 130	3	30	
Perfluorononanoic acid (PFNA)	<2.0		25.0	25.3		ng/L		101	70 - 130	3	30	
Perfluorotetradecanoic acid (PFTA)	<2.0		25.0	19.8		ng/L		79	70 - 130	10	30	
Perfluorotridecanoic acid (PFTTrDA)	<2.0		25.0	24.0		ng/L		96	70 - 130	6	30	
9-Chlorohexadecafluoro-3-oxan onane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		25.0	22.4		ng/L		90	70 - 130	5	30	
11-Chloroeicosafuoro-3-oxaund ecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		25.0	20.9		ng/L		84	70 - 130	6	30	
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		25.0	23.4		ng/L		94	70 - 130	3	30	
Surrogate		MSD	MSD									
		%Recovery	Qualifier	Limits								
d5-NEtFOSAA		99		70 - 130								
13C2 PFHxA		100		70 - 130								
13C2 PFDA		111		70 - 130								
13C3-GenX		107		70 - 130								

QC Association Summary

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

Job ID: 380-176340-1
SDG: PFAS: Aiea Wells Pumps, Aiea Gulch Wells Pump
1/Pump 2

LCMS

Prep Batch: 179293

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-176340-1	AIEA WELLS PUMPS #2	Total/NA	Drinking Water	537.1 DW	
380-176340-2	FB AIEA WELLS PUMPS #2	Total/NA	Drinking Water	537.1 DW	
380-176340-3	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	537.1 DW	
380-176340-4	FB AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	537.1 DW	
380-176340-5	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	537.1 DW	
380-176340-6	FB AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	537.1 DW	
MBL 380-179293/28-A	Method Blank	Total/NA	Water	537.1 DW	
LCS 380-179293/30-A	Lab Control Sample	Total/NA	Water	537.1 DW	
MRL 380-179293/29-A	Lab Control Sample	Total/NA	Water	537.1 DW	
380-176167-B-1-A MS	Matrix Spike	Total/NA	Water	537.1 DW	
380-176167-C-1-A MSD	Matrix Spike Duplicate	Total/NA	Water	537.1 DW	

Analysis Batch: 179426

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-176340-1	AIEA WELLS PUMPS #2	Total/NA	Drinking Water	537.1	179293
380-176340-2	FB AIEA WELLS PUMPS #2	Total/NA	Drinking Water	537.1	179293
380-176340-3	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	537.1	179293
380-176340-4	FB AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	537.1	179293
380-176340-5	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	537.1	179293
380-176340-6	FB AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	537.1	179293
MBL 380-179293/28-A	Method Blank	Total/NA	Water	537.1	179293
LCS 380-179293/30-A	Lab Control Sample	Total/NA	Water	537.1	179293
MRL 380-179293/29-A	Lab Control Sample	Total/NA	Water	537.1	179293
380-176167-B-1-A MS	Matrix Spike	Total/NA	Water	537.1	179293
380-176167-C-1-A MSD	Matrix Spike Duplicate	Total/NA	Water	537.1	179293

Prep Batch: 179431

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-176340-1	AIEA WELLS PUMPS #2	Total/NA	Drinking Water	533	
380-176340-2	FB AIEA WELLS PUMPS #2	Total/NA	Drinking Water	533	
380-176340-4	FB AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	533	
380-176340-5	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	533	
380-176340-6	FB AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	533	
MBL 380-179431/20-A	Method Blank	Total/NA	Water	533	
LCS 380-179431/22-A	Lab Control Sample	Total/NA	Water	533	
MRL 380-179431/21-A	Lab Control Sample	Total/NA	Water	533	
380-176291-E-1-B MS	Matrix Spike	Total/NA	Water	533	
380-176291-F-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	533	

Analysis Batch: 179580

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-176340-2	FB AIEA WELLS PUMPS #2	Total/NA	Drinking Water	533	179431
380-176340-4	FB AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	533	179431
380-176340-5	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	533	179431
MBL 380-179431/20-A	Method Blank	Total/NA	Water	533	179431
LCS 380-179431/22-A	Lab Control Sample	Total/NA	Water	533	179431
MRL 380-179431/21-A	Lab Control Sample	Total/NA	Water	533	179431
380-176291-E-1-B MS	Matrix Spike	Total/NA	Water	533	179431
380-176291-F-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	533	179431

QC Association Summary

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

Job ID: 380-176340-1
 SDG: PFAS: Aiea Wells Pumps, Aiea Gulch Wells Pump
 1/Pump 2

LCMS

Analysis Batch: 179859

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-176340-1	AIEA WELLS PUMPS #2	Total/NA	Drinking Water	533	179431
380-176340-6	FB AIEA GULCH WELLS PUMP 2 (331-202-TP0	Total/NA	Drinking Water	533	179431

Prep Batch: 180048

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-176340-3	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	533	
MBL 380-180048/20-A	Method Blank	Total/NA	Water	533	
LCS 380-180048/22-A	Lab Control Sample	Total/NA	Water	533	
MRL 380-180048/21-A	Lab Control Sample	Total/NA	Water	533	
380-176639-B-1-A MS	Matrix Spike	Total/NA	Water	533	
380-176639-C-1-A MSD	Matrix Spike Duplicate	Total/NA	Water	533	

Analysis Batch: 180156

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-176340-3	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	533	180048
MBL 380-180048/20-A	Method Blank	Total/NA	Water	533	180048
LCS 380-180048/22-A	Lab Control Sample	Total/NA	Water	533	180048
MRL 380-180048/21-A	Lab Control Sample	Total/NA	Water	533	180048
380-176639-B-1-A MS	Matrix Spike	Total/NA	Water	533	180048
380-176639-C-1-A MSD	Matrix Spike Duplicate	Total/NA	Water	533	180048



Lab Chronicle

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

Job ID: 380-176340-1
 SDG: PFAS: Aiea Wells Pumps, Aiea Gulch Wells Pump
 1/Pump 2

Client Sample ID: AIEA WELLS PUMPS #2

Lab Sample ID: 380-176340-1

Date Collected: 10/07/25 13:00
 Date Received: 10/09/25 10:26

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			179431	E2HD	EA POM	10/13/25 16:00
Total/NA	Analysis	533		1	179859	SZ9R	EA POM	10/15/25 09:11
Total/NA	Prep	537.1 DW			179293	G9MN	EA POM	10/13/25 03:34
Total/NA	Analysis	537.1		1	179426	M7ML	EA POM	10/14/25 05:05

Client Sample ID: FB AIEA WELLS PUMPS #2

Lab Sample ID: 380-176340-2

Date Collected: 10/07/25 13:00
 Date Received: 10/09/25 10:26

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			179431	E2HD	EA POM	10/13/25 16:00
Total/NA	Analysis	533		1	179580	SZ9R	EA POM	10/14/25 12:05
Total/NA	Prep	537.1 DW			179293	G9MN	EA POM	10/13/25 03:34
Total/NA	Analysis	537.1		1	179426	M7ML	EA POM	10/14/25 05:14

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

Lab Sample ID: 380-176340-3

Date Collected: 10/07/25 12:00
 Date Received: 10/09/25 10:26

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			180048	N8NE	EA POM	10/15/25 20:01
Total/NA	Analysis	533		1	180156	SZ9R	EA POM	10/16/25 10:10
Total/NA	Prep	537.1 DW			179293	G9MN	EA POM	10/13/25 03:34
Total/NA	Analysis	537.1		1	179426	M7ML	EA POM	10/14/25 05:24

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

Lab Sample ID: 380-176340-4

Date Collected: 10/07/25 12:00
 Date Received: 10/09/25 10:26

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			179431	E2HD	EA POM	10/13/25 16:00
Total/NA	Analysis	533		1	179580	SZ9R	EA POM	10/14/25 12:34
Total/NA	Prep	537.1 DW			179293	G9MN	EA POM	10/13/25 03:34
Total/NA	Analysis	537.1		1	179426	M7ML	EA POM	10/14/25 05:33

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

Lab Sample ID: 380-176340-5

Date Collected: 10/07/25 11:00
 Date Received: 10/09/25 10:26

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			179431	E2HD	EA POM	10/13/25 16:00
Total/NA	Analysis	533		1	179580	SZ9R	EA POM	10/14/25 12:43

Eurofins Eaton Analytical Pomona

Lab Chronicle

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

Job ID: 380-176340-1
 SDG: PFAS: Aiea Wells Pumps, Aiea Gulch Wells Pump
 1/Pump 2

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

Lab Sample ID: 380-176340-5

**Date Collected: 10/07/25 11:00
 Date Received: 10/09/25 10:26**

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			179293	G9MN	EA POM	10/13/25 03:34
Total/NA	Analysis	537.1		1	179426	M7ML	EA POM	10/14/25 05:43

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

Lab Sample ID: 380-176340-6

**Date Collected: 10/07/25 11:00
 Date Received: 10/09/25 10:26**

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			179431	E2HD	EA POM	10/13/25 16:00
Total/NA	Analysis	533		1	179859	SZ9R	EA POM	10/15/25 09:39
Total/NA	Prep	537.1 DW			179293	G9MN	EA POM	10/13/25 03:34
Total/NA	Analysis	537.1		1	179426	M7ML	EA POM	10/14/25 05:52

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: 380-176340-1
SDG: PFAS: Aiea Wells Pumps, Aiea Gulch Wells Pump
1/Pump 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
- 13
- 14
- 15
- 16
- 17

Method Summary

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

Job ID: 380-176340-1
SDG: PFAS: Aiea Wells Pumps, Aiea Gulch Wells Pump
1/Pump 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: 380-176340-1
SDG: PFAS: Aiea Wells Pumps, Aiea Gulch Wells Pump
1/Pump 2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	PWSID Number
380-176340-1	AIEA WELLS PUMPS #2	Drinking Water	10/07/25 13:00	10/09/25 10:26	HI0000331
380-176340-2	FB AIEA WELLS PUMPS #2	Drinking Water	10/07/25 13:00	10/09/25 10:26	HI0000331
380-176340-3	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Drinking Water	10/07/25 12:00	10/09/25 10:26	HI0000331
380-176340-4	FB AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Drinking Water	10/07/25 12:00	10/09/25 10:26	HI0000331
380-176340-5	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Drinking Water	10/07/25 11:00	10/09/25 10:26	HI0000331
380-176340-6	FB AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Drinking Water	10/07/25 11:00	10/09/25 10:26	HI0000331



Chain of Custody Record

Client Information		Sampler: Ryan Greer		Lab PM: Maria Lopez		Carrier Tracking No(s): 380-27941-2757.2	
Client Contact: Kirk Iwamoto		Phone: 808-748-5840		E-Mail: maria.lopez@et.eurofins.com		Page	
Company: Honolulu Board of Water Supply		PWSID		Analysis Requested		Job #:	
Address: 630 S. Beretania Street		Due Date Requested:		Perform MS/MSD (Yes or No)		Total Number of Containers	
City: Honolulu		TAT Requested (days): Standard		Field Filtered Sample (Yes or No)		Preservation Codes	
State Zip: HI, 96843		Compliance Project: Δ Yes Δ No		Matrix		M - Hexane	
Phone: 808-748-5840		PO #: C20525101 exp 05312023		Sample Type (C=Comp, G=grab) (BT=Titrim, A=As)		N - Nohs	
Email: KIWAMOTO@hbws.org		WO #: 38001111		Sample Time		O - AsNaO2	
Project Name: RED-HILL/HBWS sites Event Desc: RUSH Weekly Red Hill		Project #: 38001111		Sample Date		P - Na2O4S	
Site:		SSOW#:		Preservation Code:		Q - Na2SO3	
Sample Identification		Sample Date		Sample Time		R - Na2SO3	
AIEA WELLS PUMPS #2		10/7		1300		S - H2SO4	
AIEA GULCH WELLS PUMP 1		11		1200		T - TSP Dodecahydrate	
11		11		1100		U - Aceione	
						V - MCAA	
						W - pH 4-5	
						Y - Trizma	
						Z - other (specify)	
						Other	
Possible Hazard Identification		Sample Date		Sample Time		Special Instructions/Note:	
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		10/8/25		1300		380-176340 COC	
Deliverable Requested I, II, III, IV, Other (specify)		Date/Time:		Date/Time:		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
Empty Kit Relinquished by:		Date:		Date:		<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	
Relinquished by:		10/8/25		1300		Special Instructions/QC Requirements	
Relinquished by:		Date/Time:		Date/Time:		Method of Shipment:	
Relinquished by:		Date/Time:		Date/Time:		Received by: <i>[Signature]</i>	
Custody Seals Intact: Δ Yes Δ No		Date/Time:		Date/Time:		Company: HBWS	
Custody Seal No		Date/Time:		Date/Time:		Company: HBWS	
Cooler Temperature(s) °C and Other Remarks: 0300 2.5 +0.0 = 2.5 0 EL		Date/Time:		Date/Time:		Company: ELSA	



Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-176340-1

SDG Number: PFAS: Aiea Wells Pumps, Aiea Gulch Wells Pump 1/Pump 2

Login Number: 176340

List Source: Eurofins Eaton Analytical Pomona

List Number: 1

Creator: Sanchez, Joseph G

Question	Answer	Comment
The coolers custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
Samples were received on ice.	True	
Cooler(s) Temperature is acceptable.	True	
Cooler(s) Temperature is recorded.	True	
COC is present.	False	
COC is filled out in ink and is legible.	False	
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).	N/A	
Samples do not require splitting or compositing.	True	
Container provided by EEA	True	

