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ANALYTICAL REPORT

PREPARED FOR

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

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JOB DESCRIPTION

RED-HILL
PFAS: Aiea Wells Pumps 1&2 P2
RUSH Weekly Red Hill

JOB NUMBER

380-188442-1

Eurofins Eaton Analytical Pomona

Job Notes

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

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

Compliance Statement

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

Authorization



Authorized for release by
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Definitions/Glossary

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

Job ID: 380-188442-1
SDG: PFAS: Aiea Wells Pumps 1&2 P2

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: 380-188442-1

Job ID: 380-188442-1

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Job Narrative 380-188442-1

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 12/17/2025 10:30 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.5°C.

PFAS

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



Detection Summary

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

Job ID: 380-188442-1
SDG: PFAS: Aiea Wells Pumps 1&2 P2

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

Lab Sample ID: 380-188442-1

No Detections.

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

Lab Sample ID: 380-188442-2

No Detections.

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- 4
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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: 380-188442-1
SDG: PFAS: Aiea Wells Pumps 1&2 P2

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

Lab Sample ID: 380-188442-1

Date Collected: 12/15/25 11:43

Matrix: Drinking Water

Date Received: 12/17/25 10:30

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		12/30/25 10:50	12/31/25 07:06	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		12/30/25 10:50	12/31/25 07:06	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		12/30/25 10:50	12/31/25 07:06	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		12/30/25 10:50	12/31/25 07:06	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		12/30/25 10:50	12/31/25 07:06	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		12/30/25 10:50	12/31/25 07:06	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		12/30/25 10:50	12/31/25 07:06	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		12/30/25 10:50	12/31/25 07:06	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		12/30/25 10:50	12/31/25 07:06	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		12/30/25 10:50	12/31/25 07:06	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		12/30/25 10:50	12/31/25 07:06	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		12/30/25 10:50	12/31/25 07:06	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		12/30/25 10:50	12/31/25 07:06	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		12/30/25 10:50	12/31/25 07:06	1
Perfluorobutanoic acid (PFBA)	<2.0		2.0	ng/L		12/30/25 10:50	12/31/25 07:06	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0	ng/L		12/30/25 10:50	12/31/25 07:06	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0	ng/L		12/30/25 10:50	12/31/25 07:06	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0	ng/L		12/30/25 10:50	12/31/25 07:06	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		2.0	ng/L		12/30/25 10:50	12/31/25 07:06	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<2.0		2.0	ng/L		12/30/25 10:50	12/31/25 07:06	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		12/30/25 10:50	12/31/25 07:06	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		12/30/25 10:50	12/31/25 07:06	1
Perfluoropentanoic acid (PFPeA)	<2.0		2.0	ng/L		12/30/25 10:50	12/31/25 07:06	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		12/30/25 10:50	12/31/25 07:06	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		12/30/25 10:50	12/31/25 07:06	1
Isotope Dilution	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	98		50 - 200			12/30/25 10:50	12/31/25 07:06	1
13C6 PFDA	98		50 - 200			12/30/25 10:50	12/31/25 07:06	1
13C5 PFHxA	102		50 - 200			12/30/25 10:50	12/31/25 07:06	1
13C4 PFHpA	103		50 - 200			12/30/25 10:50	12/31/25 07:06	1
13C8 PFOA	109		50 - 200			12/30/25 10:50	12/31/25 07:06	1
13C9 PFNA	102		50 - 200			12/30/25 10:50	12/31/25 07:06	1
13C7 PFUnA	96		50 - 200			12/30/25 10:50	12/31/25 07:06	1
13C2 PFDoA	100		50 - 200			12/30/25 10:50	12/31/25 07:06	1
13C4 PFBA	104		50 - 200			12/30/25 10:50	12/31/25 07:06	1
13C5 PFPeA	96		50 - 200			12/30/25 10:50	12/31/25 07:06	1
13C3 PFBS	105		50 - 200			12/30/25 10:50	12/31/25 07:06	1
13C3 PFHxS	103		50 - 200			12/30/25 10:50	12/31/25 07:06	1

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Client Sample Results

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

Job ID: 380-188442-1
SDG: PFAS: Aiea Wells Pumps 1&2 P2

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

Lab Sample ID: 380-188442-1

Date Collected: 12/15/25 11:43

Matrix: Drinking Water

Date Received: 12/17/25 10:30

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOS	100		50 - 200	12/30/25 10:50	12/31/25 07:06	1
13C2-4:2-FTS	114		50 - 200	12/30/25 10:50	12/31/25 07:06	1
13C2-6:2-FTS	103		50 - 200	12/30/25 10:50	12/31/25 07:06	1
13C2-8:2-FTS	103		50 - 200	12/30/25 10:50	12/31/25 07:06	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		12/18/25 18:54	12/19/25 19:47	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		12/18/25 18:54	12/19/25 19:47	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		12/18/25 18:54	12/19/25 19:47	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		2.0	ng/L		12/18/25 18:54	12/19/25 19:47	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		2.0	ng/L		12/18/25 18:54	12/19/25 19:47	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		12/18/25 18:54	12/19/25 19:47	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		12/18/25 18:54	12/19/25 19:47	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		12/18/25 18:54	12/19/25 19:47	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		12/18/25 18:54	12/19/25 19:47	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		12/18/25 18:54	12/19/25 19:47	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		12/18/25 18:54	12/19/25 19:47	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		12/18/25 18:54	12/19/25 19:47	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		12/18/25 18:54	12/19/25 19:47	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0	ng/L		12/18/25 18:54	12/19/25 19:47	1
Perfluorotridecanoic acid (PFTTrDA)	<2.0		2.0	ng/L		12/18/25 18:54	12/19/25 19:47	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		12/18/25 18:54	12/19/25 19:47	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		12/18/25 18:54	12/19/25 19:47	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		12/18/25 18:54	12/19/25 19:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	105		70 - 130	12/18/25 18:54	12/19/25 19:47	1
13C2 PFHxA	115		70 - 130	12/18/25 18:54	12/19/25 19:47	1
13C2 PFDA	109		70 - 130	12/18/25 18:54	12/19/25 19:47	1
13C3-GenX	116		70 - 130	12/18/25 18:54	12/19/25 19:47	1

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

Lab Sample ID: 380-188442-2

Date Collected: 12/15/25 11:43

Matrix: Water

Date Received: 12/17/25 10:30

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		12/30/25 10:50	12/31/25 07:34	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		12/30/25 10:50	12/31/25 07:34	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		12/30/25 10:50	12/31/25 07:34	1

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Client Sample Results

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

Job ID: 380-188442-1
SDG: PFAS: Aiea Wells Pumps 1&2 P2

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

Lab Sample ID: 380-188442-2

Date Collected: 12/15/25 11:43

Matrix: Water

Date Received: 12/17/25 10:30

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		12/30/25 10:50	12/31/25 07:34	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		12/30/25 10:50	12/31/25 07:34	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		12/30/25 10:50	12/31/25 07:34	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		12/30/25 10:50	12/31/25 07:34	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		12/30/25 10:50	12/31/25 07:34	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		12/30/25 10:50	12/31/25 07:34	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		12/30/25 10:50	12/31/25 07:34	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		12/30/25 10:50	12/31/25 07:34	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		12/30/25 10:50	12/31/25 07:34	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		12/30/25 10:50	12/31/25 07:34	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		12/30/25 10:50	12/31/25 07:34	1
Perfluorobutanoic acid (PFBA)	<2.0		2.0	ng/L		12/30/25 10:50	12/31/25 07:34	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0	ng/L		12/30/25 10:50	12/31/25 07:34	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0	ng/L		12/30/25 10:50	12/31/25 07:34	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0	ng/L		12/30/25 10:50	12/31/25 07:34	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		2.0	ng/L		12/30/25 10:50	12/31/25 07:34	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<2.0		2.0	ng/L		12/30/25 10:50	12/31/25 07:34	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		12/30/25 10:50	12/31/25 07:34	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		12/30/25 10:50	12/31/25 07:34	1
Perfluoropentanoic acid (PFPeA)	<2.0		2.0	ng/L		12/30/25 10:50	12/31/25 07:34	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		12/30/25 10:50	12/31/25 07:34	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		12/30/25 10:50	12/31/25 07:34	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	80		50 - 200	12/30/25 10:50	12/31/25 07:34	1
13C6 PFDA	89		50 - 200	12/30/25 10:50	12/31/25 07:34	1
13C5 PFHxA	89		50 - 200	12/30/25 10:50	12/31/25 07:34	1
13C4 PFHpA	90		50 - 200	12/30/25 10:50	12/31/25 07:34	1
13C8 PFOA	93		50 - 200	12/30/25 10:50	12/31/25 07:34	1
13C9 PFNA	92		50 - 200	12/30/25 10:50	12/31/25 07:34	1
13C7 PFUnA	88		50 - 200	12/30/25 10:50	12/31/25 07:34	1
13C2 PFDoA	93		50 - 200	12/30/25 10:50	12/31/25 07:34	1
13C4 PFBA	91		50 - 200	12/30/25 10:50	12/31/25 07:34	1
13C5 PFPeA	83		50 - 200	12/30/25 10:50	12/31/25 07:34	1
13C3 PFBS	101		50 - 200	12/30/25 10:50	12/31/25 07:34	1
13C3 PFHxS	102		50 - 200	12/30/25 10:50	12/31/25 07:34	1
13C8 PFOS	100		50 - 200	12/30/25 10:50	12/31/25 07:34	1
13C2-4:2-FTS	105		50 - 200	12/30/25 10:50	12/31/25 07:34	1
13C2-6:2-FTS	100		50 - 200	12/30/25 10:50	12/31/25 07:34	1
13C2-8:2-FTS	97		50 - 200	12/30/25 10:50	12/31/25 07:34	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-188442-1
SDG: PFAS: Aiea Wells Pumps 1&2 P2

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

Lab Sample ID: 380-188442-2

Date Collected: 12/15/25 11:43

Matrix: Water

Date Received: 12/17/25 10:30

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		12/18/25 18:54	12/19/25 21:34	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		12/18/25 18:54	12/19/25 21:34	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		12/18/25 18:54	12/19/25 21:34	1
N-methylperfluorooctanesulfonamide cetic acid (NMeFOSAA)	<2.0		2.0	ng/L		12/18/25 18:54	12/19/25 21:34	1
N-ethylperfluorooctanesulfonamide cetic acid (NEtFOSAA)	<2.0		2.0	ng/L		12/18/25 18:54	12/19/25 21:34	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		12/18/25 18:54	12/19/25 21:34	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		12/18/25 18:54	12/19/25 21:34	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		12/18/25 18:54	12/19/25 21:34	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		12/18/25 18:54	12/19/25 21:34	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		12/18/25 18:54	12/19/25 21:34	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		12/18/25 18:54	12/19/25 21:34	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		12/18/25 18:54	12/19/25 21:34	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		12/18/25 18:54	12/19/25 21:34	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0	ng/L		12/18/25 18:54	12/19/25 21:34	1
Perfluorotridecanoic acid (PFTTrDA)	<2.0		2.0	ng/L		12/18/25 18:54	12/19/25 21:34	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		12/18/25 18:54	12/19/25 21:34	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		12/18/25 18:54	12/19/25 21:34	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		12/18/25 18:54	12/19/25 21:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	99		70 - 130			12/18/25 18:54	12/19/25 21:34	1
13C2 PFHxA	105		70 - 130			12/18/25 18:54	12/19/25 21:34	1
13C2 PFDA	106		70 - 130			12/18/25 18:54	12/19/25 21:34	1
13C3-GenX	106		70 - 130			12/18/25 18:54	12/19/25 21:34	1

Action Limit Summary

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

Job ID: 380-188442-1
SDG: PFAS: Aiea Wells Pumps 1&2 P2

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

Lab Sample ID: 380-188442-1

Compliance Check

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

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

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

Lab Sample ID: 380-188442-2

Compliance Check

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

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

Surrogate Summary

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

Job ID: 380-188442-1
 SDG: PFAS: Aiea Wells Pumps 1&2 P2

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)
380-188442-1	AIEA WELLS PUMPS 1&2 P2 (260)	105	115	109	116
380-188442-1 MS	AIEA WELLS PUMPS 1&2 P2 (260) (331-203-TP400)	97	107	105	106
380-188442-1 MSD	AIEA WELLS PUMPS 1&2 P2 (260) (331-203-TP400)	99	109	106	105

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)
380-188442-2	FB AIEA WELLS PUMPS 1&2 (260)	99	105	106	106
LCS 380-193380/23-A	Lab Control Sample	92	95	101	89
MBL 380-193380/21-A	Method Blank	103	102	103	99
MRL 380-193380/22-A	Lab Control Sample	93	101	106	98

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: 380-188442-1
SDG: PFAS: Aiea Wells Pumps 1&2 P2

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

Matrix: Drinking Water

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	HFPODA (50-200)	C6PFDA (50-200)	13C5PHA (50-200)	C4PFHA (50-200)	C8PFOA (50-200)	C9PFNA (50-200)	13C7PUA (50-200)	PFDoA (50-200)
380-188442-1	AIEA WELLS PUMPS 1&2 P2 (260)	98	98	102	103	109	102	96	100
380-188442-1 MS	AIEA WELLS PUMPS 1&2 P2 (260) (331-203-TP400)	89	86	85	87	88	89	90	91
380-188442-1 MSD	AIEA WELLS PUMPS 1&2 P2 (260) (331-203-TP400)	78	70	82	79	79	72	70	75

		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)
380-188442-1	AIEA WELLS PUMPS 1&2 P2 (260)	104	96	105	103	100	114	103	103
380-188442-1 MS	AIEA WELLS PUMPS 1&2 P2 (260) (331-203-TP400)	93	87	104	105	105	111	123	107
380-188442-1 MSD	AIEA WELLS PUMPS 1&2 P2 (260) (331-203-TP400)	84	79	103	104	101	116	107	100

Surrogate Legend

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

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

Matrix: Water

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	HFPODA (50-200)	C6PFDA (50-200)	13C5PHA (50-200)	C4PFHA (50-200)	C8PFOA (50-200)	C9PFNA (50-200)	13C7PUA (50-200)	PFDoA (50-200)
380-188442-2	FB AIEA WELLS PUMPS 1&2 (260)	80	89	89	90	93	92	88	93
LCS 380-195023/24-A	Lab Control Sample	93	93	93	96	97	99	96	98
MBL 380-195023/22-A	Method Blank	85	84	87	89	93	92	82	85
MRL 380-195023/23-A	Lab Control Sample	84	87	91	89	95	91	87	89

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFBA (50-200)	PFPeA (50-200)	C3PFBS (50-200)	C3PFHS (50-200)	C8PFOS (50-200)	42FTS (50-200)	62FTS (50-200)	82FTS (50-200)
380-188442-2	FB AIEA WELLS PUMPS 1&2 (260)	91	83	101	102	100	105	100	97
LCS 380-195023/24-A	Lab Control Sample	98	95	102	104	102	102	100	97
MBL 380-195023/22-A	Method Blank	101	90	101	103	96	106	101	96
MRL 380-195023/23-A	Lab Control Sample	96	92	98	98	100	108	106	99

Surrogate Legend

Eurofins Eaton Analytical Pomona

Isotope Dilution Summary

Client: City & County of Honolulu

Project/Site: RED-HILL

HFPODA = 13C3 HFPO-DA

C6PFDA = 13C6 PFDA

13C5PHA = 13C5 PFHxA

C4PFHA = 13C4 PFHpA

C8PFOA = 13C8 PFOA

C9PFNA = 13C9 PFNA

13C7PUA = 13C7 PFUnA

PFDoA = 13C2 PFDoA

PFBA = 13C4 PFBA

PFPeA = 13C5 PFPeA

C3PFBS = 13C3 PFBS

C3PFHS = 13C3 PFHxS

C8PFOS = 13C8 PFOS

42FTS = 13C2-4:2-FTS

62FTS = 13C2-6:2-FTS

82FTS = 13C2-8:2-FTS

Job ID: 380-188442-1
SDG: PFAS: Aiea Wells Pumps 1&2 P2

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QC Sample Results

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

Job ID: 380-188442-1
SDG: PFAS: Aiea Wells Pumps 1&2 P2

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

Lab Sample ID: MBL 380-195023/22-A
Matrix: Water
Analysis Batch: 195213

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 195023

Analyte	MBL	MBL	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
11-Chloroeicosfluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<0.30		2.0	ng/L		12/30/25 10:50	12/31/25 06:38	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<0.30		2.0	ng/L		12/30/25 10:50	12/31/25 06:38	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.60		2.0	ng/L		12/30/25 10:50	12/31/25 06:38	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<1.0		2.0	ng/L		12/30/25 10:50	12/31/25 06:38	1
Perfluorobutanesulfonic acid (PFBS)	<0.37		2.0	ng/L		12/30/25 10:50	12/31/25 06:38	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	ng/L		12/30/25 10:50	12/31/25 06:38	1
Perfluorododecanoic acid (PFDoA)	<0.54		2.0	ng/L		12/30/25 10:50	12/31/25 06:38	1
Perfluoroheptanoic acid (PFHpA)	<0.39		2.0	ng/L		12/30/25 10:50	12/31/25 06:38	1
Perfluorohexanesulfonic acid (PFHxS)	<0.32		2.0	ng/L		12/30/25 10:50	12/31/25 06:38	1
Perfluorohexanoic acid (PFHxA)	<0.46		2.0	ng/L		12/30/25 10:50	12/31/25 06:38	1
Perfluorononanoic acid (PFNA)	<0.40		2.0	ng/L		12/30/25 10:50	12/31/25 06:38	1
Perfluorooctanesulfonic acid (PFOS)	<0.43		2.0	ng/L		12/30/25 10:50	12/31/25 06:38	1
Perfluorooctanoic acid (PFOA)	<0.38		2.0	ng/L		12/30/25 10:50	12/31/25 06:38	1
Perfluoroundecanoic acid (PFUnA)	<0.42		2.0	ng/L		12/30/25 10:50	12/31/25 06:38	1
Perfluorobutanoic acid (PFBA)	<0.69		2.0	ng/L		12/30/25 10:50	12/31/25 06:38	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<0.38		2.0	ng/L		12/30/25 10:50	12/31/25 06:38	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<0.37		2.0	ng/L		12/30/25 10:50	12/31/25 06:38	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<0.48		2.0	ng/L		12/30/25 10:50	12/31/25 06:38	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.47		2.0	ng/L		12/30/25 10:50	12/31/25 06:38	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<0.25		2.0	ng/L		12/30/25 10:50	12/31/25 06:38	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.46		2.0	ng/L		12/30/25 10:50	12/31/25 06:38	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.15		2.0	ng/L		12/30/25 10:50	12/31/25 06:38	1
Perfluoropentanoic acid (PFPeA)	<0.38		2.0	ng/L		12/30/25 10:50	12/31/25 06:38	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.36		2.0	ng/L		12/30/25 10:50	12/31/25 06:38	1
Perfluoropentanesulfonic acid (PFPeS)	<0.39		2.0	ng/L		12/30/25 10:50	12/31/25 06:38	1

Isotope Dilution	MBL	MBL	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C3 HFPO-DA	85		50 - 200	12/30/25 10:50	12/31/25 06:38	1
13C6 PFDA	84		50 - 200	12/30/25 10:50	12/31/25 06:38	1
13C5 PFHxA	87		50 - 200	12/30/25 10:50	12/31/25 06:38	1
13C4 PFHpA	89		50 - 200	12/30/25 10:50	12/31/25 06:38	1
13C8 PFOA	93		50 - 200	12/30/25 10:50	12/31/25 06:38	1
13C9 PFNA	92		50 - 200	12/30/25 10:50	12/31/25 06:38	1
13C7 PFUnA	82		50 - 200	12/30/25 10:50	12/31/25 06:38	1
13C2 PFDoA	85		50 - 200	12/30/25 10:50	12/31/25 06:38	1
13C4 PFBA	101		50 - 200	12/30/25 10:50	12/31/25 06:38	1
13C5 PFPeA	90		50 - 200	12/30/25 10:50	12/31/25 06:38	1
13C3 PFBS	101		50 - 200	12/30/25 10:50	12/31/25 06:38	1
13C3 PFHxS	103		50 - 200	12/30/25 10:50	12/31/25 06:38	1

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-188442-1
SDG: PFAS: Aiea Wells Pumps 1&2 P2

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

Lab Sample ID: MBL 380-195023/22-A
Matrix: Water
Analysis Batch: 195213

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 195023

Isotope Dilution	MBL MBL		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C8 PFOS	96		50 - 200	12/30/25 10:50	12/31/25 06:38	1
13C2-4:2-FTS	106		50 - 200	12/30/25 10:50	12/31/25 06:38	1
13C2-6:2-FTS	101		50 - 200	12/30/25 10:50	12/31/25 06:38	1
13C2-8:2-FTS	96		50 - 200	12/30/25 10:50	12/31/25 06:38	1

Lab Sample ID: LCS 380-195023/24-A
Matrix: Water
Analysis Batch: 195213

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 195023

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	121	108		ng/L		90	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	121	107		ng/L		88	70 - 130
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	121	113		ng/L		93	70 - 130
Perfluorobutanesulfonic acid (PFBS)	121	113		ng/L		94	70 - 130
Perfluorodecanoic acid (PFDA)	121	115		ng/L		96	70 - 130
Perfluorododecanoic acid (PFDoA)	121	115		ng/L		95	70 - 130
Perfluoroheptanoic acid (PFHpA)	121	111		ng/L		92	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	121	112		ng/L		93	70 - 130
Perfluorohexanoic acid (PFHxA)	121	108		ng/L		90	70 - 130
Perfluorononanoic acid (PFNA)	121	113		ng/L		94	70 - 130
Perfluorooctanesulfonic acid (PFOS)	121	114		ng/L		95	70 - 130
Perfluorooctanoic acid (PFOA)	121	115		ng/L		96	70 - 130
Perfluoroundecanoic acid (PFUnA)	121	115		ng/L		95	70 - 130
Perfluorobutanoic acid (PFBA)	121	117		ng/L		97	70 - 130
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	121	115		ng/L		96	70 - 130
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	121	116		ng/L		96	70 - 130
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	121	113		ng/L		94	70 - 130
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	121	112		ng/L		92	70 - 130
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	121	114		ng/L		95	70 - 130
Perfluoro-3-methoxypropanoic acid (PFMPA)	121	120		ng/L		99	70 - 130
Perfluoro-4-methoxybutanoic acid (PFMBA)	121	112		ng/L		93	70 - 130
Perfluoropentanoic acid (PFPeA)	121	115		ng/L		95	70 - 130
Perfluoroheptanesulfonic acid (PFHpS)	121	118		ng/L		98	70 - 130

QC Sample Results

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

Job ID: 380-188442-1
SDG: PFAS: Aiea Wells Pumps 1&2 P2

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

Lab Sample ID: LCS 380-195023/24-A
Matrix: Water
Analysis Batch: 195213

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 195023

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoropentanesulfonic acid (PFPeS)	121	112		ng/L		93	70 - 130
LCS LCS							
Isotope Dilution	%Recovery	Qualifier	Limits				
13C3 HFPO-DA	93		50 - 200				
13C6 PFDA	93		50 - 200				
13C5 PFHxA	93		50 - 200				
13C4 PFHpA	96		50 - 200				
13C8 PFOA	97		50 - 200				
13C9 PFNA	99		50 - 200				
13C7 PFUnA	96		50 - 200				
13C2 PFDoA	98		50 - 200				
13C4 PFBA	98		50 - 200				
13C5 PFPeA	95		50 - 200				
13C3 PFBS	102		50 - 200				
13C3 PFHxS	104		50 - 200				
13C8 PFOS	102		50 - 200				
13C2-4:2-FTS	102		50 - 200				
13C2-6:2-FTS	100		50 - 200				
13C2-8:2-FTS	97		50 - 200				

Lab Sample ID: MRL 380-195023/23-A
Matrix: Water
Analysis Batch: 195213

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 195023

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.01	1.87	J	ng/L		93	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	2.01	1.87	J	ng/L		93	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	2.01	2.00	J	ng/L		100	50 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	2.01	2.07	J	ng/L		103	50 - 150
Perfluorobutanesulfonic acid (PFBS)	2.01	2.01	J	ng/L		100	50 - 150
Perfluorodecanoic acid (PFDA)	2.01	2.14	J	ng/L		106	50 - 150
Perfluorododecanoic acid (PFDoA)	2.01	2.17	J	ng/L		108	50 - 150
Perfluoroheptanoic acid (PFHpA)	2.01	2.17	J	ng/L		108	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	2.01	2.07	J	ng/L		103	50 - 150
Perfluorohexanoic acid (PFHxA)	2.01	1.98	J	ng/L		98	50 - 150
Perfluorononanoic acid (PFNA)	2.01	2.19	J	ng/L		109	50 - 150
Perfluorooctanesulfonic acid (PFOS)	2.01	2.14	J	ng/L		107	50 - 150
Perfluorooctanoic acid (PFOA)	2.01	2.04	J	ng/L		102	50 - 150
Perfluoroundecanoic acid (PFUnA)	2.01	2.14	J	ng/L		107	50 - 150
Perfluorobutanoic acid (PFBA)	2.01	2.13	J	ng/L		106	50 - 150

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QC Sample Results

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

Job ID: 380-188442-1
SDG: PFAS: Aiea Wells Pumps 1&2 P2

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

Lab Sample ID: MRL 380-195023/23-A
Matrix: Water
Analysis Batch: 195213

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 195023

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	2.01	2.16	J	ng/L		108	50 - 150
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	2.01	2.19	J	ng/L		109	50 - 150
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	2.01	2.15	J	ng/L		107	50 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	2.01	2.03	J	ng/L		101	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	2.11	J	ng/L		105	50 - 150
Perfluoro-4-methoxybutanoic acid (PFMBA)	2.01	1.96	J	ng/L		97	50 - 150
Perfluoropentanoic acid (PFPeA)	2.01	2.18	J	ng/L		109	50 - 150
Perfluoroheptanesulfonic acid (PFHpS)	2.01	1.94	J	ng/L		96	50 - 150
Perfluoropentanesulfonic acid (PFPeS)	2.01	1.98	J	ng/L		99	50 - 150

Isotope Dilution	MRL %Recovery	MRL Qualifier	MRL Limits
13C3 HFPO-DA	84		50 - 200
13C6 PFDA	87		50 - 200
13C5 PFHxA	91		50 - 200
13C4 PFHpA	89		50 - 200
13C8 PFOA	95		50 - 200
13C9 PFNA	91		50 - 200
13C7 PFUnA	87		50 - 200
13C2 PFDoA	89		50 - 200
13C4 PFBA	96		50 - 200
13C5 PFPeA	92		50 - 200
13C3 PFBS	98		50 - 200
13C3 PFHxS	98		50 - 200
13C8 PFOS	100		50 - 200
13C2-4:2-FTS	108		50 - 200
13C2-6:2-FTS	106		50 - 200
13C2-8:2-FTS	99		50 - 200

Lab Sample ID: 380-188442-1 MS
Matrix: Drinking Water
Analysis Batch: 195213

Client Sample ID: AIEA WELLS PUMPS 1&2 P2 (260) (331-203-TP400)
Prep Type: Total/NA
Prep Batch: 195023

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		121	115		ng/L		95	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		121	114		ng/L		94	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		121	113		ng/L		94	70 - 130

QC Sample Results

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

Job ID: 380-188442-1
SDG: PFAS: Aiea Wells Pumps 1&2 P2

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

Lab Sample ID: 380-188442-1 MS

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

Matrix: Drinking Water

Prep Type: Total/NA

Analysis Batch: 195213

Prep Batch: 195023

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier	Added	Result	Qualifier				
Hexafluoropropylene Oxide	<2.0		121	112		ng/L		93	70 - 130
Dimer Acid (HFPO-DA/GenX)									
Perfluorobutanesulfonic acid (PFBS)	<2.0		121	108		ng/L		89	70 - 130
Perfluorodecanoic acid (PFDA)	<2.0		121	115		ng/L		95	70 - 130
Perfluorododecanoic acid (PFDoA)	<2.0		121	120		ng/L		100	70 - 130
Perfluoroheptanoic acid (PFHpA)	<2.0		121	119		ng/L		98	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	<2.0		121	117		ng/L		96	70 - 130
Perfluorohexanoic acid (PFHxA)	<2.0		121	112		ng/L		92	70 - 130
Perfluorononanoic acid (PFNA)	<2.0		121	122		ng/L		101	70 - 130
Perfluorooctanesulfonic acid (PFOS)	<2.0		121	120		ng/L		99	70 - 130
Perfluorooctanoic acid (PFOA)	<2.0		121	120		ng/L		99	70 - 130
Perfluoroundecanoic acid (PFUnA)	<2.0		121	117		ng/L		97	70 - 130
Perfluorobutanoic acid (PFBA)	<2.0		121	115		ng/L		96	70 - 130
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		121	118		ng/L		98	70 - 130
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		121	117		ng/L		97	70 - 130
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		121	116		ng/L		96	70 - 130
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		121	119		ng/L		98	70 - 130
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<2.0		121	112		ng/L		93	70 - 130
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		121	118		ng/L		98	70 - 130
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		121	122		ng/L		101	70 - 130
Perfluoropentanoic acid (PFPeA)	<2.0		121	118		ng/L		97	70 - 130
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		121	122		ng/L		101	70 - 130
Perfluoropentanesulfonic acid (PFPeS)	<2.0		121	110		ng/L		91	70 - 130

Isotope Dilution	MS MS		Limits
	%Recovery	Qualifier	
13C3 HFPO-DA	89		50 - 200
13C6 PFDA	86		50 - 200
13C5 PFHxA	85		50 - 200
13C4 PFHpA	87		50 - 200
13C8 PFOA	88		50 - 200
13C9 PFNA	89		50 - 200
13C7 PFUnA	90		50 - 200
13C2 PFDoA	91		50 - 200
13C4 PFBA	93		50 - 200
13C5 PFPeA	87		50 - 200
13C3 PFBS	104		50 - 200
13C3 PFHxS	105		50 - 200
13C8 PFOS	105		50 - 200

QC Sample Results

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

Job ID: 380-188442-1
SDG: PFAS: Aiea Wells Pumps 1&2 P2

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

Lab Sample ID: 380-188442-1 MS

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

Matrix: Drinking Water

Prep Type: Total/NA

Analysis Batch: 195213

Prep Batch: 195023

<i>Isotope Dilution</i>	<i>MS MS</i>	<i>Limits</i>
<i>%Recovery</i>	<i>Qualifier</i>	
13C2-4:2-FTS	111	50 - 200
13C2-6:2-FTS	123	50 - 200
13C2-8:2-FTS	107	50 - 200

Lab Sample ID: 380-188442-1 MSD

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

Matrix: Drinking Water

Prep Type: Total/NA

Analysis Batch: 195213

Prep Batch: 195023

<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-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		120	107		ng/L		89	70 - 130	7	30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		120	110		ng/L		91	70 - 130	4	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		120	108		ng/L		89	70 - 130	5	30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		120	114		ng/L		95	70 - 130	2	30
Perfluorobutanesulfonic acid (PFBS)	<2.0		120	116		ng/L		96	70 - 130	6	30
Perfluorodecanoic acid (PFDA)	<2.0		120	111		ng/L		92	70 - 130	3	30
Perfluorododecanoic acid (PFDoA)	<2.0		120	114		ng/L		95	70 - 130	5	30
Perfluoroheptanoic acid (PFHpA)	<2.0		120	120		ng/L		99	70 - 130	1	30
Perfluorohexanesulfonic acid (PFHxS)	<2.0		120	119		ng/L		98	70 - 130	1	30
Perfluorohexanoic acid (PFHxA)	<2.0		120	109		ng/L		89	70 - 130	3	30
Perfluorononanoic acid (PFNA)	<2.0		120	122		ng/L		102	70 - 130	0	30
Perfluorooctanesulfonic acid (PFOS)	<2.0		120	117		ng/L		97	70 - 130	2	30
Perfluorooctanoic acid (PFOA)	<2.0		120	116		ng/L		96	70 - 130	3	30
Perfluoroundecanoic acid (PFUnA)	<2.0		120	120		ng/L		100	70 - 130	3	30
Perfluorobutanoic acid (PFBA)	<2.0		120	118		ng/L		98	70 - 130	2	30
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		120	115		ng/L		96	70 - 130	2	30
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		120	123		ng/L		102	70 - 130	5	30
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		120	119		ng/L		98	70 - 130	2	30
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		120	108		ng/L		89	70 - 130	10	30
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<2.0		120	114		ng/L		95	70 - 130	2	30
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		120	121		ng/L		100	70 - 130	3	30
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		120	113		ng/L		94	70 - 130	8	30
Perfluoropentanoic acid (PFPeA)	<2.0		120	117		ng/L		96	70 - 130	1	30
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		120	124		ng/L		103	70 - 130	2	30
Perfluoropentanesulfonic acid (PFPeS)	<2.0		120	114		ng/L		95	70 - 130	4	30

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QC Sample Results

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

Job ID: 380-188442-1
SDG: PFAS: Aiea Wells Pumps 1&2 P2

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

Isotope Dilution	MSD MSD		Limits
	%Recovery	Qualifier	
13C3 HFPO-DA	78		50 - 200
13C6 PFDA	70		50 - 200
13C5 PFHxA	82		50 - 200
13C4 PFHpA	79		50 - 200
13C8 PFOA	79		50 - 200
13C9 PFNA	72		50 - 200
13C7 PFUnA	70		50 - 200
13C2 PFDoA	75		50 - 200
13C4 PFBA	84		50 - 200
13C5 PFPeA	79		50 - 200
13C3 PFBS	103		50 - 200
13C3 PFHxS	104		50 - 200
13C8 PFOS	101		50 - 200
13C2-4:2-FTS	116		50 - 200
13C2-6:2-FTS	107		50 - 200
13C2-8:2-FTS	100		50 - 200

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

Lab Sample ID: MBL 380-193380/21-A
Matrix: Water
Analysis Batch: 193644

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 193380

Analyte	MBL MBL		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<1.0		2.0	ng/L		12/18/25 18:54	12/19/25 19:17	1
Perfluorooctanesulfonic acid (PFOS)	<0.43		2.0	ng/L		12/18/25 18:54	12/19/25 19:17	1
Perfluoroundecanoic acid (PFUnA)	<0.42		2.0	ng/L		12/18/25 18:54	12/19/25 19:17	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.58		2.0	ng/L		12/18/25 18:54	12/19/25 19:17	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.42		2.0	ng/L		12/18/25 18:54	12/19/25 19:17	1
Perfluorohexanoic acid (PFHxA)	<0.46		2.0	ng/L		12/18/25 18:54	12/19/25 19:17	1
Perfluorododecanoic acid (PFDoA)	<0.54		2.0	ng/L		12/18/25 18:54	12/19/25 19:17	1
Perfluorooctanoic acid (PFOA)	<0.38		2.0	ng/L		12/18/25 18:54	12/19/25 19:17	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	ng/L		12/18/25 18:54	12/19/25 19:17	1
Perfluorohexanesulfonic acid (PFHxS)	<0.32		2.0	ng/L		12/18/25 18:54	12/19/25 19:17	1
Perfluorobutanesulfonic acid (PFBS)	<0.37		2.0	ng/L		12/18/25 18:54	12/19/25 19:17	1
Perfluoroheptanoic acid (PFHpA)	<0.39		2.0	ng/L		12/18/25 18:54	12/19/25 19:17	1
Perfluorononanoic acid (PFNA)	<0.40		2.0	ng/L		12/18/25 18:54	12/19/25 19:17	1
Perfluorotetradecanoic acid (PFTA)	<0.54		2.0	ng/L		12/18/25 18:54	12/19/25 19:17	1
Perfluorotridecanoic acid (PFTTrDA)	<0.36		2.0	ng/L		12/18/25 18:54	12/19/25 19:17	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<0.30		2.0	ng/L		12/18/25 18:54	12/19/25 19:17	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<0.30		2.0	ng/L		12/18/25 18:54	12/19/25 19:17	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.60		2.0	ng/L		12/18/25 18:54	12/19/25 19:17	1

Surrogate	MBL MBL		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
d5-NEtFOSAA	103		70 - 130	12/18/25 18:54	12/19/25 19:17	1
13C2 PFHxA	102		70 - 130	12/18/25 18:54	12/19/25 19:17	1
13C2 PFDA	103		70 - 130	12/18/25 18:54	12/19/25 19:17	1

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QC Sample Results

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

Job ID: 380-188442-1
SDG: PFAS: Aiea Wells Pumps 1&2 P2

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

Lab Sample ID: MBL 380-193380/21-A
Matrix: Water
Analysis Batch: 193644

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 193380

Surrogate	MBL %Recovery	MBL Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3-GenX	99		70 - 130	12/18/25 18:54	12/19/25 19:17	1

Lab Sample ID: LCS 380-193380/23-A
Matrix: Water
Analysis Batch: 193644

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 193380

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Hexafluoropropylene Oxide	25.1	22.6		ng/L		90	70 - 130
Dimer Acid (HFPO-DA/GenX)							
Perfluorooctanesulfonic acid (PFOS)	25.1	26.3		ng/L		105	70 - 130
Perfluoroundecanoic acid (PFUnA)	25.1	25.7		ng/L		103	70 - 130
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	25.1	24.4		ng/L		98	70 - 130
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	25.1	22.8		ng/L		91	70 - 130
Perfluorohexanoic acid (PFHxA)	25.1	23.8		ng/L		95	70 - 130
Perfluorododecanoic acid (PFDoA)	25.1	26.5		ng/L		106	70 - 130
Perfluorooctanoic acid (PFOA)	25.1	25.0		ng/L		100	70 - 130
Perfluorodecanoic acid (PFDA)	25.1	25.8		ng/L		103	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	25.1	27.4		ng/L		110	70 - 130
Perfluorobutanesulfonic acid (PFBS)	25.1	24.8		ng/L		99	70 - 130
Perfluoroheptanoic acid (PFHpA)	25.1	24.2		ng/L		96	70 - 130
Perfluorononanoic acid (PFNA)	25.1	25.0		ng/L		100	70 - 130
Perfluorotetradecanoic acid (PFTA)	25.1	26.3		ng/L		105	70 - 130
Perfluorotridecanoic acid (PFTrDA)	25.1	27.9		ng/L		111	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	25.1	27.6		ng/L		110	70 - 130
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	25.1	26.3		ng/L		105	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	25.1	23.7		ng/L		95	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
d5-NEtFOSAA	92		70 - 130
13C2 PFHxA	95		70 - 130
13C2 PFDA	101		70 - 130
13C3-GenX	89		70 - 130

QC Sample Results

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

Job ID: 380-188442-1
SDG: PFAS: Aiea Wells Pumps 1&2 P2

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

Lab Sample ID: MRL 380-193380/22-A
Matrix: Water
Analysis Batch: 193644

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 193380

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	2.01	1.98	J	ng/L		98	50 - 150
Perfluorooctanesulfonic acid (PFOS)	2.01	2.11	J	ng/L		105	50 - 150
Perfluoroundecanoic acid (PFUnA)	2.01	2.20	J	ng/L		109	50 - 150
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.01	1.92	J	ng/L		96	50 - 150
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.01	2.03	J	ng/L		101	50 - 150
Perfluorohexanoic acid (PFHxA)	2.01	2.08	J	ng/L		104	50 - 150
Perfluorododecanoic acid (PFDoA)	2.01	2.15	J	ng/L		107	50 - 150
Perfluorooctanoic acid (PFOA)	2.01	2.13	J	ng/L		106	50 - 150
Perfluorodecanoic acid (PFDA)	2.01	2.20	J	ng/L		109	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	2.01	2.18	J	ng/L		109	50 - 150
Perfluorobutanesulfonic acid (PFBS)	2.01	2.09	J	ng/L		104	50 - 150
Perfluoroheptanoic acid (PFHpA)	2.01	2.01	J	ng/L		100	50 - 150
Perfluorononanoic acid (PFNA)	2.01	2.18	J	ng/L		108	50 - 150
Perfluorotetradecanoic acid (PFTA)	2.01	2.24	J	ng/L		111	50 - 150
Perfluorotridecanoic acid (PFTrDA)	2.01	2.30	J	ng/L		115	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	2.01	2.18	J	ng/L		108	50 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.01	2.02	J	ng/L		100	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	2.01	2.02	J	ng/L		100	50 - 150

Surrogate	MRL %Recovery	MRL Qualifier	Limits
d5-NEtFOSAA	93		70 - 130
13C2 PFHxA	101		70 - 130
13C2 PFDA	106		70 - 130
13C3-GenX	98		70 - 130

Lab Sample ID: 380-188442-1 MS
Matrix: Drinking Water
Analysis Batch: 193644

Client Sample ID: AIEA WELLS PUMPS 1&2 P2 (260) (331-203-TP400)
Prep Type: Total/NA
Prep Batch: 193380

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		50.3	51.1		ng/L		102	70 - 130
Perfluorooctanesulfonic acid (PFOS)	<2.0		50.3	53.1		ng/L		104	70 - 130
Perfluoroundecanoic acid (PFUnA)	<2.0		50.3	52.7		ng/L		105	70 - 130
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		50.3	51.3		ng/L		102	70 - 130

Eurofins Eaton Analytical Pomona

QC Association Summary

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

Job ID: 380-188442-1
 SDG: PFAS: Aiea Wells Pumps 1&2 P2

LCMS

Prep Batch: 193380

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-188442-1	AIEA WELLS PUMPS 1&2 P2 (260) (331-203-TP400)	Total/NA	Drinking Water	537.1 DW	
380-188442-2	FB AIEA WELLS PUMPS 1&2 (260) (331-203-TP400)	Total/NA	Water	537.1 DW	
MBL 380-193380/21-A	Method Blank	Total/NA	Water	537.1 DW	
LCS 380-193380/23-A	Lab Control Sample	Total/NA	Water	537.1 DW	
MRL 380-193380/22-A	Lab Control Sample	Total/NA	Water	537.1 DW	
380-188442-1 MS	AIEA WELLS PUMPS 1&2 P2 (260) (331-203-TP400)	Total/NA	Drinking Water	537.1 DW	
380-188442-1 MSD	AIEA WELLS PUMPS 1&2 P2 (260) (331-203-TP400)	Total/NA	Drinking Water	537.1 DW	

Analysis Batch: 193644

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-188442-1	AIEA WELLS PUMPS 1&2 P2 (260) (331-203-TP400)	Total/NA	Drinking Water	537.1	193380
380-188442-2	FB AIEA WELLS PUMPS 1&2 (260) (331-203-TP400)	Total/NA	Water	537.1	193380
MBL 380-193380/21-A	Method Blank	Total/NA	Water	537.1	193380
LCS 380-193380/23-A	Lab Control Sample	Total/NA	Water	537.1	193380
MRL 380-193380/22-A	Lab Control Sample	Total/NA	Water	537.1	193380
380-188442-1 MS	AIEA WELLS PUMPS 1&2 P2 (260) (331-203-TP400)	Total/NA	Drinking Water	537.1	193380
380-188442-1 MSD	AIEA WELLS PUMPS 1&2 P2 (260) (331-203-TP400)	Total/NA	Drinking Water	537.1	193380

Prep Batch: 195023

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-188442-1	AIEA WELLS PUMPS 1&2 P2 (260) (331-203-TP400)	Total/NA	Drinking Water	533	
380-188442-2	FB AIEA WELLS PUMPS 1&2 (260) (331-203-TP400)	Total/NA	Water	533	
MBL 380-195023/22-A	Method Blank	Total/NA	Water	533	
LCS 380-195023/24-A	Lab Control Sample	Total/NA	Water	533	
MRL 380-195023/23-A	Lab Control Sample	Total/NA	Water	533	
380-188442-1 MS	AIEA WELLS PUMPS 1&2 P2 (260) (331-203-TP400)	Total/NA	Drinking Water	533	
380-188442-1 MSD	AIEA WELLS PUMPS 1&2 P2 (260) (331-203-TP400)	Total/NA	Drinking Water	533	

Analysis Batch: 195213

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-188442-1	AIEA WELLS PUMPS 1&2 P2 (260) (331-203-TP400)	Total/NA	Drinking Water	533	195023
380-188442-2	FB AIEA WELLS PUMPS 1&2 (260) (331-203-TP400)	Total/NA	Water	533	195023
MBL 380-195023/22-A	Method Blank	Total/NA	Water	533	195023
LCS 380-195023/24-A	Lab Control Sample	Total/NA	Water	533	195023
MRL 380-195023/23-A	Lab Control Sample	Total/NA	Water	533	195023
380-188442-1 MS	AIEA WELLS PUMPS 1&2 P2 (260) (331-203-TP400)	Total/NA	Drinking Water	533	195023
380-188442-1 MSD	AIEA WELLS PUMPS 1&2 P2 (260) (331-203-TP400)	Total/NA	Drinking Water	533	195023

Lab Chronicle

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

Job ID: 380-188442-1
 SDG: PFAS: Aiea Wells Pumps 1&2 P2

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

Lab Sample ID: 380-188442-1

Date Collected: 12/15/25 11:43

Matrix: Drinking Water

Date Received: 12/17/25 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			195023	X5FS	EA POM	12/30/25 10:50
Total/NA	Analysis	533		1	195213	SZ9R	EA POM	12/31/25 07:06
Total/NA	Prep	537.1 DW			193380	N8NE	EA POM	12/18/25 18:54
Total/NA	Analysis	537.1		1	193644	Y5FM	EA POM	12/19/25 19:47

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

Lab Sample ID: 380-188442-2

Date Collected: 12/15/25 11:43

Matrix: Water

Date Received: 12/17/25 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			195023	X5FS	EA POM	12/30/25 10:50
Total/NA	Analysis	533		1	195213	SZ9R	EA POM	12/31/25 07:34
Total/NA	Prep	537.1 DW			193380	N8NE	EA POM	12/18/25 18:54
Total/NA	Analysis	537.1		1	193644	Y5FM	EA POM	12/19/25 21:34

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: 380-188442-1
SDG: PFAS: Aiea Wells Pumps 1&2 P2

Laboratory: Eurofins Eaton Analytical Pomona

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

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

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

Method Summary

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

Job ID: 380-188442-1
SDG: PFAS: Aiea Wells Pumps 1&2 P2

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: 380-188442-1
SDG: PFAS: Aiea Wells Pumps 1&2 P2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
380-188442-1	AIEA WELLS PUMPS 1&2 P2 (260) (331-203-TP400)	Drinking Water	12/15/25 11:43	12/17/25 10:30	Hawaii
380-188442-2	FB AIEA WELLS PUMPS 1&2 (260) (331-203-TP400)	Water	12/15/25 11:43	12/17/25 10:30	Hawaii

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

Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-188442-1

SDG Number: PFAS: Aiea Wells Pumps 1&2 P2

Login Number: 188442

List Number: 1

Creator: Ngo, Theodore

List Source: Eurofins Eaton Analytical Pomona

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

