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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 Units 1&2 P2
RUSH Weekly Red Hill

JOB NUMBER

380-194002-1

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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 Drinking Water and Wastewater West, 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: 380-194002-1
SDG: PFAS: Aiea Wells Units 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: 380-194002-1

Job ID: 380-194002-1

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Job Narrative 380-194002-1

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 1/22/2026 9:55 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 3.1°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: 380-194002-1
SDG: PFAS: Aiea Wells Units 1&2 P2

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

Lab Sample ID: 380-194002-1

No Detections.

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

Lab Sample ID: 380-194002-2

No Detections.

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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: 380-194002-1
SDG: PFAS: Aiea Wells Units 1&2 P2

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

Lab Sample ID: 380-194002-1

Date Collected: 01/20/26 11:10

Matrix: Drinking Water

Date Received: 01/22/26 09:55

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		01/24/26 15:04	01/25/26 16:41	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		01/24/26 15:04	01/25/26 16:41	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		01/24/26 15:04	01/25/26 16:41	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		01/24/26 15:04	01/25/26 16:41	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		01/24/26 15:04	01/25/26 16:41	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		01/24/26 15:04	01/25/26 16:41	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		01/24/26 15:04	01/25/26 16:41	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		01/24/26 15:04	01/25/26 16:41	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		01/24/26 15:04	01/25/26 16:41	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		01/24/26 15:04	01/25/26 16:41	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		01/24/26 15:04	01/25/26 16:41	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		01/24/26 15:04	01/25/26 16:41	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		01/24/26 15:04	01/25/26 16:41	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		01/24/26 15:04	01/25/26 16:41	1
Perfluorobutanoic acid (PFBA)	<2.0		2.0	ng/L		01/24/26 15:04	01/25/26 16:41	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0	ng/L		01/24/26 15:04	01/25/26 16:41	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0	ng/L		01/24/26 15:04	01/25/26 16:41	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0	ng/L		01/24/26 15:04	01/25/26 16:41	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		2.0	ng/L		01/24/26 15:04	01/25/26 16:41	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<2.0		2.0	ng/L		01/24/26 15:04	01/25/26 16:41	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		01/24/26 15:04	01/25/26 16:41	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		01/24/26 15:04	01/25/26 16:41	1
Perfluoropentanoic acid (PFPeA)	<2.0		2.0	ng/L		01/24/26 15:04	01/25/26 16:41	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		01/24/26 15:04	01/25/26 16:41	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		01/24/26 15:04	01/25/26 16:41	1
Isotope Dilution	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	92		50 - 200			01/24/26 15:04	01/25/26 16:41	1
13C6 PFDA	115		50 - 200			01/24/26 15:04	01/25/26 16:41	1
13C5 PFHxA	104		50 - 200			01/24/26 15:04	01/25/26 16:41	1
13C4 PFHpA	105		50 - 200			01/24/26 15:04	01/25/26 16:41	1
13C8 PFOA	106		50 - 200			01/24/26 15:04	01/25/26 16:41	1
13C9 PFNA	115		50 - 200			01/24/26 15:04	01/25/26 16:41	1
13C7 PFUnA	116		50 - 200			01/24/26 15:04	01/25/26 16:41	1
13C2 PFDoA	120		50 - 200			01/24/26 15:04	01/25/26 16:41	1
13C4 PFBA	110		50 - 200			01/24/26 15:04	01/25/26 16:41	1
13C5 PFPeA	121		50 - 200			01/24/26 15:04	01/25/26 16:41	1
13C3 PFBS	108		50 - 200			01/24/26 15:04	01/25/26 16:41	1
13C3 PFHxS	105		50 - 200			01/24/26 15:04	01/25/26 16:41	1

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Client Sample Results

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

Job ID: 380-194002-1
SDG: PFAS: Aiea Wells Units 1&2 P2

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

Lab Sample ID: 380-194002-1

Date Collected: 01/20/26 11:10

Matrix: Drinking Water

Date Received: 01/22/26 09:55

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	112		50 - 200	01/24/26 15:04	01/25/26 16:41	1
13C2-4:2-FTS	129		50 - 200	01/24/26 15:04	01/25/26 16:41	1
13C2-6:2-FTS	140		50 - 200	01/24/26 15:04	01/25/26 16:41	1
13C2-8:2-FTS	141		50 - 200	01/24/26 15:04	01/25/26 16:41	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		01/23/26 16:18	01/24/26 19:26	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		01/23/26 16:18	01/24/26 19:26	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		01/23/26 16:18	01/24/26 19:26	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		2.0	ng/L		01/23/26 16:18	01/24/26 19:26	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		2.0	ng/L		01/23/26 16:18	01/24/26 19:26	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		01/23/26 16:18	01/24/26 19:26	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		01/23/26 16:18	01/24/26 19:26	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		01/23/26 16:18	01/24/26 19:26	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		01/23/26 16:18	01/24/26 19:26	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		01/23/26 16:18	01/24/26 19:26	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		01/23/26 16:18	01/24/26 19:26	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		01/23/26 16:18	01/24/26 19:26	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		01/23/26 16:18	01/24/26 19:26	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0	ng/L		01/23/26 16:18	01/24/26 19:26	1
Perfluorotridecanoic acid (PFTrDA)	<2.0		2.0	ng/L		01/23/26 16:18	01/24/26 19:26	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		01/23/26 16:18	01/24/26 19:26	1
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		01/23/26 16:18	01/24/26 19:26	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		01/23/26 16:18	01/24/26 19:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	108		70 - 130	01/23/26 16:18	01/24/26 19:26	1
13C2 PFHxA	113		70 - 130	01/23/26 16:18	01/24/26 19:26	1
13C2 PFDA	113		70 - 130	01/23/26 16:18	01/24/26 19:26	1
13C3-GenX	104		70 - 130	01/23/26 16:18	01/24/26 19:26	1

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

Lab Sample ID: 380-194002-2

Date Collected: 01/20/26 11:10

Matrix: Water

Date Received: 01/22/26 09:55

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		01/24/26 15:04	01/25/26 16:50	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		01/24/26 15:04	01/25/26 16:50	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		01/24/26 15:04	01/25/26 16:50	1

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Client Sample Results

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

Job ID: 380-194002-1
SDG: PFAS: Aiea Wells Units 1&2 P2

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

Lab Sample ID: 380-194002-2

Date Collected: 01/20/26 11:10

Matrix: Water

Date Received: 01/22/26 09:55

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
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		01/24/26 15:04	01/25/26 16:50	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		01/24/26 15:04	01/25/26 16:50	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		01/24/26 15:04	01/25/26 16:50	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		01/24/26 15:04	01/25/26 16:50	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		01/24/26 15:04	01/25/26 16:50	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		01/24/26 15:04	01/25/26 16:50	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		01/24/26 15:04	01/25/26 16:50	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		01/24/26 15:04	01/25/26 16:50	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		01/24/26 15:04	01/25/26 16:50	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		01/24/26 15:04	01/25/26 16:50	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		01/24/26 15:04	01/25/26 16:50	1
Perfluorobutanoic acid (PFBA)	<2.0		2.0	ng/L		01/24/26 15:04	01/25/26 16:50	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0	ng/L		01/24/26 15:04	01/25/26 16:50	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0	ng/L		01/24/26 15:04	01/25/26 16:50	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0	ng/L		01/24/26 15:04	01/25/26 16:50	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		2.0	ng/L		01/24/26 15:04	01/25/26 16:50	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<2.0		2.0	ng/L		01/24/26 15:04	01/25/26 16:50	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		01/24/26 15:04	01/25/26 16:50	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		01/24/26 15:04	01/25/26 16:50	1
Perfluoropentanoic acid (PFPeA)	<2.0		2.0	ng/L		01/24/26 15:04	01/25/26 16:50	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		01/24/26 15:04	01/25/26 16:50	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		01/24/26 15:04	01/25/26 16:50	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	103		50 - 200	01/24/26 15:04	01/25/26 16:50	1
13C6 PFDA	119		50 - 200	01/24/26 15:04	01/25/26 16:50	1
13C5 PFHxA	112		50 - 200	01/24/26 15:04	01/25/26 16:50	1
13C4 PFHpA	109		50 - 200	01/24/26 15:04	01/25/26 16:50	1
13C8 PFOA	115		50 - 200	01/24/26 15:04	01/25/26 16:50	1
13C9 PFNA	122		50 - 200	01/24/26 15:04	01/25/26 16:50	1
13C7 PFUnA	122		50 - 200	01/24/26 15:04	01/25/26 16:50	1
13C2 PFDoA	128		50 - 200	01/24/26 15:04	01/25/26 16:50	1
13C4 PFBA	109		50 - 200	01/24/26 15:04	01/25/26 16:50	1
13C5 PFPeA	122		50 - 200	01/24/26 15:04	01/25/26 16:50	1
13C3 PFBS	107		50 - 200	01/24/26 15:04	01/25/26 16:50	1
13C3 PFHxS	109		50 - 200	01/24/26 15:04	01/25/26 16:50	1
13C8 PFOS	112		50 - 200	01/24/26 15:04	01/25/26 16:50	1
13C2-4:2-FTS	119		50 - 200	01/24/26 15:04	01/25/26 16:50	1
13C2-6:2-FTS	135		50 - 200	01/24/26 15:04	01/25/26 16:50	1
13C2-8:2-FTS	138		50 - 200	01/24/26 15:04	01/25/26 16:50	1

Client Sample Results

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

Job ID: 380-194002-1
SDG: PFAS: Aiea Wells Units 1&2 P2

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

Lab Sample ID: 380-194002-2

Date Collected: 01/20/26 11:10

Matrix: Water

Date Received: 01/22/26 09:55

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		01/23/26 16:18	01/24/26 21:47	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		01/23/26 16:18	01/24/26 21:47	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		01/23/26 16:18	01/24/26 21:47	1
N-methylperfluorooctanesulfonamide cetic acid (NMeFOSAA)	<2.0		2.0	ng/L		01/23/26 16:18	01/24/26 21:47	1
N-ethylperfluorooctanesulfonamide cetic acid (NEtFOSAA)	<2.0		2.0	ng/L		01/23/26 16:18	01/24/26 21:47	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		01/23/26 16:18	01/24/26 21:47	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		01/23/26 16:18	01/24/26 21:47	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		01/23/26 16:18	01/24/26 21:47	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		01/23/26 16:18	01/24/26 21:47	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		01/23/26 16:18	01/24/26 21:47	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		01/23/26 16:18	01/24/26 21:47	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		01/23/26 16:18	01/24/26 21:47	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		01/23/26 16:18	01/24/26 21:47	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0	ng/L		01/23/26 16:18	01/24/26 21:47	1
Perfluorotridecanoic acid (PFTTrDA)	<2.0		2.0	ng/L		01/23/26 16:18	01/24/26 21:47	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		01/23/26 16:18	01/24/26 21:47	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		01/23/26 16:18	01/24/26 21:47	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		01/23/26 16:18	01/24/26 21:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	110		70 - 130			01/23/26 16:18	01/24/26 21:47	1
13C2 PFHxA	105		70 - 130			01/23/26 16:18	01/24/26 21:47	1
13C2 PFDA	106		70 - 130			01/23/26 16:18	01/24/26 21:47	1
13C3-GenX	100		70 - 130			01/23/26 16:18	01/24/26 21:47	1

Action Limit Summary

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

Job ID: 380-194002-1
SDG: PFAS: Aiea Wells Units 1&2 P2

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

Lab Sample ID: 380-194002-1

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)
PWSID Number: HI0000331

Lab Sample ID: 380-194002-2

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: 380-194002-1
 SDG: PFAS: Aiea Wells Units 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)
380-194002-1	AIEA WELLS PUMPS 1&2 (260) P2	108	113	113	104
380-194002-1 MS	AIEA WELLS PUMPS 1&2 (260) P2 (331-203-TP400)	108	111	110	104
380-194002-1 MSD	AIEA WELLS PUMPS 1&2 (260) P2 (331-203-TP400)	109	110	111	106

Surrogate Legend

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

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		d5NEFOS (70-130)	PFHxA (70-130)	PFDA (70-130)	GenX (70-130)
380-194002-2	FB: AIEA WELLS PUMPS 1&2 (260)	110	105	106	100
LCS 380-200589/21-A	Lab Control Sample	101	107	114	100
MBL 380-200589/19-A	Method Blank	101	106	113	94
MRL 380-200589/20-A	Lab Control Sample	109	111	114	105

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: 380-194002-1
SDG: PFAS: Aiea Wells Units 1&2 P2

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

Matrix: Drinking Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)							
		HFPODA (50-200)	C6PFDA (50-200)	13C5PHA (50-200)	C4PFHA (50-200)	C8PFOA (50-200)	C9PFNA (50-200)	13C7PUA (50-200)	PFDoA (50-200)
380-194002-1	AIEA WELLS PUMPS 1&2 (260) P2	92	115	104	105	106	115	116	120

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)							
		PFBA (50-200)	PFPeA (50-200)	C3PFBS (50-200)	C3PFHS (50-200)	C8PFOS (50-200)	42FTS (50-200)	62FTS (50-200)	82FTS (50-200)
380-194002-1	AIEA WELLS PUMPS 1&2 (260) P2	110	121	108	105	112	129	140	141

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

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)							
		HFPODA (50-200)	C6PFDA (50-200)	13C5PHA (50-200)	C4PFHA (50-200)	C8PFOA (50-200)	C9PFNA (50-200)	13C7PUA (50-200)	PFDoA (50-200)
380-194002-2	FB: AIEA WELLS PUMPS 1&2 (260)	103	119	112	109	115	122	122	128
380-194205-A-1-B MS	Matrix Spike	111	125	117	114	116	124	129	132
380-194205-A-1-C MSD	Matrix Spike Duplicate	93	114	102	97	104	110	118	123
LCS 380-200675/24-A	Lab Control Sample	116	128	117	112	114	123	130	139
MBL 380-200675/22-A	Method Blank	100	116	107	110	112	113	114	127
MRL 380-200675/23-A	Lab Control Sample	98	118	112	113	114	120	120	125

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)							
		PFBA (50-200)	PFPeA (50-200)	C3PFBS (50-200)	C3PFHS (50-200)	C8PFOS (50-200)	42FTS (50-200)	62FTS (50-200)	82FTS (50-200)
380-194002-2	FB: AIEA WELLS PUMPS 1&2 (260)	109	122	107	109	112	119	135	138
380-194205-A-1-B MS	Matrix Spike	113	122	109	116	117	124	130	131
380-194205-A-1-C MSD	Matrix Spike Duplicate	103	113	117	109	118	120	129	142
LCS 380-200675/24-A	Lab Control Sample	113	121	121	113	117	123	133	137
MBL 380-200675/22-A	Method Blank	112	120	105	105	111	116	130	139
MRL 380-200675/23-A	Lab Control Sample	116	124	114	110	116	125	138	144

Surrogate Legend

- HFPODA = 13C3 HFPO-DA
- C6PFDA = 13C6 PFDA
- 13C5PHA = 13C5 PFHxA

Isotope Dilution Summary

Client: City & County of Honolulu

Project/Site: RED-HILL

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: 380-194002-1
SDG: PFAS: Aiea Wells Units 1&2 P2

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

QC Sample Results

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

Job ID: 380-194002-1
SDG: PFAS: Aiea Wells Units 1&2 P2

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

Lab Sample ID: MBL 380-200675/22-A
Matrix: Water
Analysis Batch: 200723

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 200675

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<0.30		2.0	ng/L		01/24/26 15:04	01/25/26 14:36	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<0.30		2.0	ng/L		01/24/26 15:04	01/25/26 14:36	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.60		2.0	ng/L		01/24/26 15:04	01/25/26 14:36	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<1.0		2.0	ng/L		01/24/26 15:04	01/25/26 14:36	1
Perfluorobutanesulfonic acid (PFBS)	<0.37		2.0	ng/L		01/24/26 15:04	01/25/26 14:36	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	ng/L		01/24/26 15:04	01/25/26 14:36	1
Perfluorododecanoic acid (PFDoA)	<0.54		2.0	ng/L		01/24/26 15:04	01/25/26 14:36	1
Perfluoroheptanoic acid (PFHpA)	<0.39		2.0	ng/L		01/24/26 15:04	01/25/26 14:36	1
Perfluorohexanesulfonic acid (PFHxS)	<0.32		2.0	ng/L		01/24/26 15:04	01/25/26 14:36	1
Perfluorohexanoic acid (PFHxA)	<0.46		2.0	ng/L		01/24/26 15:04	01/25/26 14:36	1
Perfluorononanoic acid (PFNA)	<0.40		2.0	ng/L		01/24/26 15:04	01/25/26 14:36	1
Perfluorooctanesulfonic acid (PFOS)	<0.43		2.0	ng/L		01/24/26 15:04	01/25/26 14:36	1
Perfluorooctanoic acid (PFOA)	<0.38		2.0	ng/L		01/24/26 15:04	01/25/26 14:36	1
Perfluoroundecanoic acid (PFUnA)	<0.42		2.0	ng/L		01/24/26 15:04	01/25/26 14:36	1
Perfluorobutanoic acid (PFBA)	<0.69		2.0	ng/L		01/24/26 15:04	01/25/26 14:36	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<0.38		2.0	ng/L		01/24/26 15:04	01/25/26 14:36	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<0.37		2.0	ng/L		01/24/26 15:04	01/25/26 14:36	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<0.48		2.0	ng/L		01/24/26 15:04	01/25/26 14:36	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.47		2.0	ng/L		01/24/26 15:04	01/25/26 14:36	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<0.25		2.0	ng/L		01/24/26 15:04	01/25/26 14:36	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.46		2.0	ng/L		01/24/26 15:04	01/25/26 14:36	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.15		2.0	ng/L		01/24/26 15:04	01/25/26 14:36	1
Perfluoropentanoic acid (PFPeA)	<0.38		2.0	ng/L		01/24/26 15:04	01/25/26 14:36	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.36		2.0	ng/L		01/24/26 15:04	01/25/26 14:36	1
Perfluoropentanesulfonic acid (PFPeS)	<0.39		2.0	ng/L		01/24/26 15:04	01/25/26 14:36	1

Isotope Dilution	MBL %Recovery	MBL Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	100		50 - 200	01/24/26 15:04	01/25/26 14:36	1
13C6 PFDA	116		50 - 200	01/24/26 15:04	01/25/26 14:36	1
13C5 PFHxA	107		50 - 200	01/24/26 15:04	01/25/26 14:36	1
13C4 PFHpA	110		50 - 200	01/24/26 15:04	01/25/26 14:36	1
13C8 PFOA	112		50 - 200	01/24/26 15:04	01/25/26 14:36	1
13C9 PFNA	113		50 - 200	01/24/26 15:04	01/25/26 14:36	1
13C7 PFUnA	114		50 - 200	01/24/26 15:04	01/25/26 14:36	1
13C2 PFDoA	127		50 - 200	01/24/26 15:04	01/25/26 14:36	1
13C4 PFBA	112		50 - 200	01/24/26 15:04	01/25/26 14:36	1
13C5 PFPeA	120		50 - 200	01/24/26 15:04	01/25/26 14:36	1
13C3 PFBS	105		50 - 200	01/24/26 15:04	01/25/26 14:36	1
13C3 PFHxS	105		50 - 200	01/24/26 15:04	01/25/26 14:36	1

Eurofins Pomona

QC Sample Results

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

Job ID: 380-194002-1
SDG: PFAS: Aiea Wells Units 1&2 P2

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

Lab Sample ID: MBL 380-200675/22-A
Matrix: Water
Analysis Batch: 200723

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 200675

<i>Isotope Dilution</i>	<i>MBL</i>	<i>MBL</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
	<i>%Recovery</i>	<i>Qualifier</i>				
13C8 PFOS	111		50 - 200	01/24/26 15:04	01/25/26 14:36	1
13C2-4:2-FTS	116		50 - 200	01/24/26 15:04	01/25/26 14:36	1
13C2-6:2-FTS	130		50 - 200	01/24/26 15:04	01/25/26 14:36	1
13C2-8:2-FTS	139		50 - 200	01/24/26 15:04	01/25/26 14:36	1

Lab Sample ID: LCS 380-200675/24-A
Matrix: Water
Analysis Batch: 200723

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 200675

<i>Analyte</i>	<i>Spike</i>	<i>LCS</i>	<i>LCS</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec</i>
	<i>Added</i>	<i>Result</i>	<i>Qualifier</i>			<i>Limits</i>	
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	120	116		ng/L		96	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	120	109		ng/L		90	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	120	114		ng/L		95	70 - 130
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	120	115		ng/L		95	70 - 130
Perfluorobutanesulfonic acid (PFBS)	120	108		ng/L		90	70 - 130
Perfluorodecanoic acid (PFDA)	120	110		ng/L		91	70 - 130
Perfluorododecanoic acid (PFDoA)	120	111		ng/L		92	70 - 130
Perfluoroheptanoic acid (PFHpA)	120	119		ng/L		99	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	120	116		ng/L		96	70 - 130
Perfluorohexanoic acid (PFHxA)	120	114		ng/L		95	70 - 130
Perfluorononanoic acid (PFNA)	120	111		ng/L		92	70 - 130
Perfluorooctanesulfonic acid (PFOS)	120	114		ng/L		95	70 - 130
Perfluorooctanoic acid (PFOA)	120	111		ng/L		92	70 - 130
Perfluoroundecanoic acid (PFUnA)	120	111		ng/L		92	70 - 130
Perfluorobutanoic acid (PFBA)	120	115		ng/L		95	70 - 130
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	120	119		ng/L		99	70 - 130
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	120	117		ng/L		97	70 - 130
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	120	112		ng/L		93	70 - 130
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	120	111		ng/L		92	70 - 130
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	120	111		ng/L		93	70 - 130
Perfluoro-3-methoxypropanoic acid (PFMPA)	120	119		ng/L		99	70 - 130
Perfluoro-4-methoxybutanoic acid (PFMBA)	120	105		ng/L		87	70 - 130
Perfluoropentanoic acid (PFPeA)	120	111		ng/L		92	70 - 130
Perfluoroheptanesulfonic acid (PFHpS)	120	108		ng/L		90	70 - 130

QC Sample Results

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

Job ID: 380-194002-1
SDG: PFAS: Aiea Wells Units 1&2 P2

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

Lab Sample ID: LCS 380-200675/24-A
Matrix: Water
Analysis Batch: 200723

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 200675

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Perfluoropentanesulfonic acid (PFPeS)	120	117		ng/L		97	70 - 130
LCS LCS							
Isotope Dilution	%Recovery	Qualifier	Limits				
13C3 HFPO-DA	116		50 - 200				
13C6 PFDA	128		50 - 200				
13C5 PFHxA	117		50 - 200				
13C4 PFHpA	112		50 - 200				
13C8 PFOA	114		50 - 200				
13C9 PFNA	123		50 - 200				
13C7 PFUnA	130		50 - 200				
13C2 PFDoA	139		50 - 200				
13C4 PFBA	113		50 - 200				
13C5 PFPeA	121		50 - 200				
13C3 PFBS	121		50 - 200				
13C3 PFHxS	113		50 - 200				
13C8 PFOS	117		50 - 200				
13C2-4:2-FTS	123		50 - 200				
13C2-6:2-FTS	133		50 - 200				
13C2-8:2-FTS	137		50 - 200				

Lab Sample ID: MRL 380-200675/23-A
Matrix: Water
Analysis Batch: 200723

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 200675

Analyte	Spike Added	MRL	MRL	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.01	2.01	J	ng/L		100	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	2.01	2.02	J	ng/L		100	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	2.01	1.86	J	ng/L		93	50 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	2.01	2.11	J	ng/L		105	50 - 150
Perfluorobutanesulfonic acid (PFBS)	2.01	1.95	J	ng/L		97	50 - 150
Perfluorodecanoic acid (PFDA)	2.01	2.03	J	ng/L		101	50 - 150
Perfluorododecanoic acid (PFDoA)	2.01	2.10	J	ng/L		104	50 - 150
Perfluoroheptanoic acid (PFHpA)	2.01	2.14	J	ng/L		106	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	2.01	2.00	J	ng/L		99	50 - 150
Perfluorohexanoic acid (PFHxA)	2.01	2.02	J	ng/L		101	50 - 150
Perfluorononanoic acid (PFNA)	2.01	1.96	J	ng/L		98	50 - 150
Perfluorooctanesulfonic acid (PFOS)	2.01	2.03	J	ng/L		101	50 - 150
Perfluorooctanoic acid (PFOA)	2.01	2.01	J	ng/L		100	50 - 150
Perfluoroundecanoic acid (PFUnA)	2.01	2.02	J	ng/L		101	50 - 150
Perfluorobutanoic acid (PFBA)	2.01	1.98	J	ng/L		99	50 - 150

Eurofins Pomona

QC Sample Results

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

Job ID: 380-194002-1
SDG: PFAS: Aiea Wells Units 1&2 P2

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

Lab Sample ID: MRL 380-200675/23-A
Matrix: Water
Analysis Batch: 200723

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 200675

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	2.01	2.12	J	ng/L		106	50 - 150
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	2.01	2.24	J	ng/L		112	50 - 150
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	2.01	2.56	J	ng/L		128	50 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	2.01	1.80	J	ng/L		90	50 - 150
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	2.01	2.17	J	ng/L		108	50 - 150
Perfluoro-3-methoxypropanoic acid (PFMPA)	2.01	2.00	J	ng/L		100	50 - 150
Perfluoro-4-methoxybutanoic acid (PFMBA)	2.01	1.91	J	ng/L		95	50 - 150
Perfluoropentanoic acid (PFPeA)	2.01	1.93	J	ng/L		96	50 - 150
Perfluoroheptanesulfonic acid (PFHpS)	2.01	1.81	J	ng/L		90	50 - 150
Perfluoropentanesulfonic acid (PFPeS)	2.01	1.99	J	ng/L		99	50 - 150

Isotope Dilution	MRL %Recovery	MRL Qualifier	MRL Limits
13C3 HFPO-DA	98		50 - 200
13C6 PFDA	118		50 - 200
13C5 PFHxA	112		50 - 200
13C4 PFHpA	113		50 - 200
13C8 PFOA	114		50 - 200
13C9 PFNA	120		50 - 200
13C7 PFUnA	120		50 - 200
13C2 PFDoA	125		50 - 200
13C4 PFBA	116		50 - 200
13C5 PFPeA	124		50 - 200
13C3 PFBS	114		50 - 200
13C3 PFHxS	110		50 - 200
13C8 PFOS	116		50 - 200
13C2-4:2-FTS	125		50 - 200
13C2-6:2-FTS	138		50 - 200
13C2-8:2-FTS	144		50 - 200

Lab Sample ID: 380-194205-A-1-B MS
Matrix: Water
Analysis Batch: 200723

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 200675

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		60.4	57.5		ng/L		95	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		60.4	57.2		ng/L		95	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		60.4	56.9		ng/L		94	70 - 130

QC Sample Results

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

Job ID: 380-194002-1
SDG: PFAS: Aiea Wells Units 1&2 P2

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

Lab Sample ID: 380-194205-A-1-B MS

Client Sample ID: Matrix Spike

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 200723

Prep Batch: 200675

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier	Added	Result	Qualifier				
Hexafluoropropylene Oxide	<2.0		60.4	55.5		ng/L		92	70 - 130
Dimer Acid (HFPO-DA/GenX)									
Perfluorobutanesulfonic acid (PFBS)	<2.0		60.4	62.1		ng/L		102	70 - 130
Perfluorodecanoic acid (PFDA)	<2.0		60.4	58.6		ng/L		97	70 - 130
Perfluorododecanoic acid (PFDoA)	<2.0		60.4	58.6		ng/L		97	70 - 130
Perfluoroheptanoic acid (PFHpA)	<2.0		60.4	60.3		ng/L		100	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	<2.0		60.4	59.5		ng/L		97	70 - 130
Perfluorohexanoic acid (PFHxA)	<2.0		60.4	56.7		ng/L		92	70 - 130
Perfluorononanoic acid (PFNA)	<2.0		60.4	56.1		ng/L		93	70 - 130
Perfluorooctanesulfonic acid (PFOS)	<2.0		60.4	56.6		ng/L		94	70 - 130
Perfluorooctanoic acid (PFOA)	<2.0		60.4	56.3		ng/L		92	70 - 130
Perfluoroundecanoic acid (PFUnA)	<2.0		60.4	56.1		ng/L		93	70 - 130
Perfluorobutanoic acid (PFBA)	<2.0		60.4	57.8		ng/L		96	70 - 130
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		60.4	63.9		ng/L		106	70 - 130
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		60.4	59.7		ng/L		99	70 - 130
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		60.4	59.8		ng/L		98	70 - 130
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		60.4	47.9		ng/L		79	70 - 130
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<2.0		60.4	65.6		ng/L		109	70 - 130
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		60.4	60.7		ng/L		101	70 - 130
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		60.4	56.6		ng/L		94	70 - 130
Perfluoropentanoic acid (PFPeA)	<2.0		60.4	57.6		ng/L		94	70 - 130
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		60.4	56.6		ng/L		94	70 - 130
Perfluoropentanesulfonic acid (PFPeS)	<2.0		60.4	59.8		ng/L		99	70 - 130

Isotope Dilution	MS MS		Limits
	%Recovery	Qualifier	
13C3 HFPO-DA	111		50 - 200
13C6 PFDA	125		50 - 200
13C5 PFHxA	117		50 - 200
13C4 PFHpA	114		50 - 200
13C8 PFOA	116		50 - 200
13C9 PFNA	124		50 - 200
13C7 PFUnA	129		50 - 200
13C2 PFDoA	132		50 - 200
13C4 PFBA	113		50 - 200
13C5 PFPeA	122		50 - 200
13C3 PFBS	109		50 - 200
13C3 PFHxS	116		50 - 200
13C8 PFOS	117		50 - 200

QC Sample Results

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

Job ID: 380-194002-1
SDG: PFAS: Aiea Wells Units 1&2 P2

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

Lab Sample ID: 380-194205-A-1-B MS
Matrix: Water
Analysis Batch: 200723

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 200675

<i>Isotope Dilution</i>	<i>MS MS</i>	<i>Limits</i>
<i>%Recovery</i>	<i>Qualifier</i>	
13C2-4:2-FTS	124	50 - 200
13C2-6:2-FTS	130	50 - 200
13C2-8:2-FTS	131	50 - 200

Lab Sample ID: 380-194205-A-1-C MSD
Matrix: Water
Analysis Batch: 200723

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 200675

<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		60.4	57.9		ng/L		96	70 - 130	1	30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		60.4	55.7		ng/L		92	70 - 130	3	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		60.4	56.7		ng/L		94	70 - 130	0	30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		60.4	54.3		ng/L		90	70 - 130	2	30
Perfluorobutanesulfonic acid (PFBS)	<2.0		60.4	57.2		ng/L		94	70 - 130	8	30
Perfluorodecanoic acid (PFDA)	<2.0		60.4	59.7		ng/L		99	70 - 130	2	30
Perfluorododecanoic acid (PFDoA)	<2.0		60.4	59.3		ng/L		98	70 - 130	1	30
Perfluoroheptanoic acid (PFHpA)	<2.0		60.4	63.6		ng/L		105	70 - 130	5	30
Perfluorohexanesulfonic acid (PFHxS)	<2.0		60.4	63.0		ng/L		102	70 - 130	6	30
Perfluorohexanoic acid (PFHxA)	<2.0		60.4	59.6		ng/L		97	70 - 130	5	30
Perfluorononanoic acid (PFNA)	<2.0		60.4	58.5		ng/L		97	70 - 130	4	30
Perfluorooctanesulfonic acid (PFOS)	<2.0		60.4	56.1		ng/L		93	70 - 130	1	30
Perfluorooctanoic acid (PFOA)	<2.0		60.4	55.5		ng/L		91	70 - 130	1	30
Perfluoroundecanoic acid (PFUnA)	<2.0		60.4	58.4		ng/L		97	70 - 130	4	30
Perfluorobutanoic acid (PFBA)	<2.0		60.4	58.5		ng/L		97	70 - 130	1	30
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		60.4	59.2		ng/L		98	70 - 130	8	30
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		60.4	63.3		ng/L		105	70 - 130	6	30
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		60.4	58.7		ng/L		96	70 - 130	2	30
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		60.4	50.1		ng/L		83	70 - 130	5	30
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<2.0		60.4	61.1		ng/L		101	70 - 130	7	30
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		60.4	60.5		ng/L		100	70 - 130	0	30
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		60.4	55.3		ng/L		92	70 - 130	2	30
Perfluoropentanoic acid (PFPeA)	<2.0		60.4	54.9		ng/L		90	70 - 130	5	30
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		60.4	56.5		ng/L		94	70 - 130	0	30
Perfluoropentanesulfonic acid (PFPeS)	<2.0		60.4	60.8		ng/L		101	70 - 130	2	30

QC Sample Results

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

Job ID: 380-194002-1
SDG: PFAS: Aiea Wells Units 1&2 P2

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

Isotope Dilution	MSD MSD		Limits
	%Recovery	Qualifier	
13C3 HFPO-DA	93		50 - 200
13C6 PFDA	114		50 - 200
13C5 PFHxA	102		50 - 200
13C4 PFHpA	97		50 - 200
13C8 PFOA	104		50 - 200
13C9 PFNA	110		50 - 200
13C7 PFUnA	118		50 - 200
13C2 PFDoA	123		50 - 200
13C4 PFBA	103		50 - 200
13C5 PFPeA	113		50 - 200
13C3 PFBS	117		50 - 200
13C3 PFHxS	109		50 - 200
13C8 PFOS	118		50 - 200
13C2-4:2-FTS	120		50 - 200
13C2-6:2-FTS	129		50 - 200
13C2-8:2-FTS	142		50 - 200

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

Lab Sample ID: MBL 380-200589/19-A
Matrix: Water
Analysis Batch: 200706

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 200589

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		01/23/26 16:18	01/24/26 18:57	1
Perfluorooctanesulfonic acid (PFOS)	<0.43		2.0	ng/L		01/23/26 16:18	01/24/26 18:57	1
Perfluoroundecanoic acid (PFUnA)	<0.42		2.0	ng/L		01/23/26 16:18	01/24/26 18:57	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.58		2.0	ng/L		01/23/26 16:18	01/24/26 18:57	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.42		2.0	ng/L		01/23/26 16:18	01/24/26 18:57	1
Perfluorohexanoic acid (PFHxA)	<0.46		2.0	ng/L		01/23/26 16:18	01/24/26 18:57	1
Perfluorododecanoic acid (PFDoA)	<0.54		2.0	ng/L		01/23/26 16:18	01/24/26 18:57	1
Perfluorooctanoic acid (PFOA)	<0.38		2.0	ng/L		01/23/26 16:18	01/24/26 18:57	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	ng/L		01/23/26 16:18	01/24/26 18:57	1
Perfluorohexanesulfonic acid (PFHxS)	<0.32		2.0	ng/L		01/23/26 16:18	01/24/26 18:57	1
Perfluorobutanesulfonic acid (PFBS)	<0.37		2.0	ng/L		01/23/26 16:18	01/24/26 18:57	1
Perfluoroheptanoic acid (PFHpA)	<0.39		2.0	ng/L		01/23/26 16:18	01/24/26 18:57	1
Perfluorononanoic acid (PFNA)	<0.40		2.0	ng/L		01/23/26 16:18	01/24/26 18:57	1
Perfluorotetradecanoic acid (PFTA)	<0.54		2.0	ng/L		01/23/26 16:18	01/24/26 18:57	1
Perfluorotridecanoic acid (PFTTrDA)	<0.36		2.0	ng/L		01/23/26 16:18	01/24/26 18:57	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<0.30		2.0	ng/L		01/23/26 16:18	01/24/26 18:57	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<0.30		2.0	ng/L		01/23/26 16:18	01/24/26 18:57	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.60		2.0	ng/L		01/23/26 16:18	01/24/26 18:57	1
Surrogate	MBL MBL		Limits			Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier						
d5-NEtFOSAA	101		70 - 130			01/23/26 16:18	01/24/26 18:57	1
13C2 PFHxA	106		70 - 130			01/23/26 16:18	01/24/26 18:57	1
13C2 PFDA	113		70 - 130			01/23/26 16:18	01/24/26 18:57	1

Eurofins Pomona

QC Sample Results

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

Job ID: 380-194002-1
SDG: PFAS: Aiea Wells Units 1&2 P2

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

Lab Sample ID: MBL 380-200589/19-A
Matrix: Water
Analysis Batch: 200706

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 200589

<i>Surrogate</i>	<i>MBL</i>	<i>MBL</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C3-GenX	94	Qualifier	70 - 130	01/23/26 16:18	01/24/26 18:57	1

Lab Sample ID: LCS 380-200589/21-A
Matrix: Water
Analysis Batch: 200706

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 200589

<i>Analyte</i>	<i>Spike</i>	<i>LCS</i>	<i>LCS</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec</i>
<i>Analyte</i>	<i>Added</i>	<i>Result</i>	<i>Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>Limits</i>
Hexafluoropropylene Oxide	50.2	45.4		ng/L		90	70 - 130
Dimer Acid (HFPO-DA/GenX)							
Perfluorooctanesulfonic acid (PFOS)	50.2	53.1		ng/L		106	70 - 130
Perfluoroundecanoic acid (PFUnA)	50.2	51.1		ng/L		102	70 - 130
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	50.2	49.0		ng/L		98	70 - 130
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	50.2	48.7		ng/L		97	70 - 130
Perfluorohexanoic acid (PFHxA)	50.2	48.6		ng/L		97	70 - 130
Perfluorododecanoic acid (PFDoA)	50.2	51.0		ng/L		102	70 - 130
Perfluorooctanoic acid (PFOA)	50.2	50.9		ng/L		101	70 - 130
Perfluorodecanoic acid (PFDA)	50.2	53.8		ng/L		107	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	50.2	52.6		ng/L		105	70 - 130
Perfluorobutanesulfonic acid (PFBS)	50.2	51.5		ng/L		103	70 - 130
Perfluoroheptanoic acid (PFHpA)	50.2	51.0		ng/L		102	70 - 130
Perfluorononanoic acid (PFNA)	50.2	51.3		ng/L		102	70 - 130
Perfluorotetradecanoic acid (PFTA)	50.2	40.5		ng/L		81	70 - 130
Perfluorotridecanoic acid (PFTrDA)	50.2	53.5		ng/L		107	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	50.2	51.3		ng/L		102	70 - 130
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	50.2	48.7		ng/L		97	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	50.2	49.6		ng/L		99	70 - 130

<i>Surrogate</i>	<i>LCS</i>	<i>LCS</i>	<i>Limits</i>
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
d5-NEtFOSAA	101		70 - 130
13C2 PFHxA	107		70 - 130
13C2 PFDA	114		70 - 130
13C3-GenX	100		70 - 130

QC Sample Results

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

Job ID: 380-194002-1
SDG: PFAS: Aiea Wells Units 1&2 P2

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

Lab Sample ID: MRL 380-200589/20-A
Matrix: Water
Analysis Batch: 200706

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 200589

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	2.00	1.99	J	ng/L		99	50 - 150
Perfluorooctanesulfonic acid (PFOS)	2.00	2.20	J	ng/L		110	50 - 150
Perfluoroundecanoic acid (PFUnA)	2.00	2.18	J	ng/L		109	50 - 150
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.00	2.13	J	ng/L		106	50 - 150
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.00	2.27	J	ng/L		113	50 - 150
Perfluorohexanoic acid (PFHxA)	2.00	2.30	J	ng/L		115	50 - 150
Perfluorododecanoic acid (PFDoA)	2.00	2.10	J	ng/L		105	50 - 150
Perfluorooctanoic acid (PFOA)	2.00	2.22	J	ng/L		111	50 - 150
Perfluorodecanoic acid (PFDA)	2.00	2.24	J	ng/L		112	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	2.00	2.14	J	ng/L		107	50 - 150
Perfluorobutanesulfonic acid (PFBS)	2.00	2.25	J	ng/L		112	50 - 150
Perfluoroheptanoic acid (PFHpA)	2.00	2.20	J	ng/L		110	50 - 150
Perfluorononanoic acid (PFNA)	2.00	2.47	J	ng/L		123	50 - 150
Perfluorotetradecanoic acid (PFTA)	2.00	1.55	J	ng/L		77	50 - 150
Perfluorotridecanoic acid (PFTrDA)	2.00	2.09	J	ng/L		105	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	2.00	2.12	J	ng/L		106	50 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.00	1.89	J	ng/L		94	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	2.00	2.16	J	ng/L		108	50 - 150

Surrogate	MRL %Recovery	MRL Qualifier	Limits
d5-NEtFOSAA	109		70 - 130
13C2 PFHxA	111		70 - 130
13C2 PFDA	114		70 - 130
13C3-GenX	105		70 - 130

Lab Sample ID: 380-194002-1 MS
Matrix: Drinking Water
Analysis Batch: 200706

Client Sample ID: AIEA WELLS PUMPS 1&2 (260) P2 (331-203-TP400)
Prep Type: Total/NA
Prep Batch: 200589

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		25.1	24.7		ng/L		99	70 - 130
Perfluorooctanesulfonic acid (PFOS)	<2.0		25.1	28.6		ng/L		110	70 - 130
Perfluoroundecanoic acid (PFUnA)	<2.0		25.1	27.1		ng/L		108	70 - 130
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		25.1	26.6		ng/L		106	70 - 130

QC Association Summary

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

Job ID: 380-194002-1
 SDG: PFAS: Aiea Wells Units 1&2 P2

LCMS

Prep Batch: 200589

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-194002-1	AIEA WELLS PUMPS 1&2 (260) P2 (331-203-TP400)	Total/NA	Drinking Water	537.1 DW	
380-194002-2	FB: AIEA WELLS PUMPS 1&2 (260) (331-203-TP400)	Total/NA	Water	537.1 DW	
MBL 380-200589/19-A	Method Blank	Total/NA	Water	537.1 DW	
LCS 380-200589/21-A	Lab Control Sample	Total/NA	Water	537.1 DW	
MRL 380-200589/20-A	Lab Control Sample	Total/NA	Water	537.1 DW	
380-194002-1 MS	AIEA WELLS PUMPS 1&2 (260) P2 (331-203-TP400)	Total/NA	Drinking Water	537.1 DW	
380-194002-1 MSD	AIEA WELLS PUMPS 1&2 (260) P2 (331-203-TP400)	Total/NA	Drinking Water	537.1 DW	

Prep Batch: 200675

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-194002-1	AIEA WELLS PUMPS 1&2 (260) P2 (331-203-TP400)	Total/NA	Drinking Water	533	
380-194002-2	FB: AIEA WELLS PUMPS 1&2 (260) (331-203-TP400)	Total/NA	Water	533	
MBL 380-200675/22-A	Method Blank	Total/NA	Water	533	
LCS 380-200675/24-A	Lab Control Sample	Total/NA	Water	533	
MRL 380-200675/23-A	Lab Control Sample	Total/NA	Water	533	
380-194205-A-1-B MS	Matrix Spike	Total/NA	Water	533	
380-194205-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	533	

Analysis Batch: 200706

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-194002-1	AIEA WELLS PUMPS 1&2 (260) P2 (331-203-TP400)	Total/NA	Drinking Water	537.1	200589
380-194002-2	FB: AIEA WELLS PUMPS 1&2 (260) (331-203-TP400)	Total/NA	Water	537.1	200589
MBL 380-200589/19-A	Method Blank	Total/NA	Water	537.1	200589
LCS 380-200589/21-A	Lab Control Sample	Total/NA	Water	537.1	200589
MRL 380-200589/20-A	Lab Control Sample	Total/NA	Water	537.1	200589
380-194002-1 MS	AIEA WELLS PUMPS 1&2 (260) P2 (331-203-TP400)	Total/NA	Drinking Water	537.1	200589
380-194002-1 MSD	AIEA WELLS PUMPS 1&2 (260) P2 (331-203-TP400)	Total/NA	Drinking Water	537.1	200589

Analysis Batch: 200723

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-194002-1	AIEA WELLS PUMPS 1&2 (260) P2 (331-203-TP400)	Total/NA	Drinking Water	533	200675
380-194002-2	FB: AIEA WELLS PUMPS 1&2 (260) (331-203-TP400)	Total/NA	Water	533	200675
MBL 380-200675/22-A	Method Blank	Total/NA	Water	533	200675
LCS 380-200675/24-A	Lab Control Sample	Total/NA	Water	533	200675
MRL 380-200675/23-A	Lab Control Sample	Total/NA	Water	533	200675
380-194205-A-1-B MS	Matrix Spike	Total/NA	Water	533	200675
380-194205-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	533	200675

Lab Chronicle

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

Job ID: 380-194002-1
SDG: PFAS: Aiea Wells Units 1&2 P2

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

Lab Sample ID: 380-194002-1

Date Collected: 01/20/26 11:10

Matrix: Drinking Water

Date Received: 01/22/26 09:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			200675	E9PK	EA POM	01/24/26 15:04
Total/NA	Analysis	533		1	200723	SZ9R	EA POM	01/25/26 16:41
Total/NA	Prep	537.1 DW			200589	N8NE	EA POM	01/23/26 16:18
Total/NA	Analysis	537.1		1	200706	SZ9R	EA POM	01/24/26 19:26

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

Lab Sample ID: 380-194002-2

Date Collected: 01/20/26 11:10

Matrix: Water

Date Received: 01/22/26 09:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			200675	E9PK	EA POM	01/24/26 15:04
Total/NA	Analysis	533		1	200723	SZ9R	EA POM	01/25/26 16:50
Total/NA	Prep	537.1 DW			200589	N8NE	EA POM	01/23/26 16:18
Total/NA	Analysis	537.1		1	200706	SZ9R	EA POM	01/24/26 21:47

Laboratory References:

EA POM = Eurofins 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: 380-194002-1
SDG: PFAS: Aiea Wells Units 1&2 P2

Laboratory: Eurofins 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
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Method Summary

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

Job ID: 380-194002-1
SDG: PFAS: Aiea Wells Units 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 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: 380-194002-1
SDG: PFAS: Aiea Wells Units 1&2 P2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	PWSID Number
380-194002-1	AIEA WELLS PUMPS 1&2 (260) P2 (331-203-TP400)	Drinking Water	01/20/26 11:10	01/22/26 09:55	HI0000331
380-194002-2	FB: AIEA WELLS PUMPS 1&2 (260) (331-203-TP400)	Water	01/20/26 11:10	01/22/26 09:55	HI0000331

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- 17

Chain of Custody Record

Client Information Client Contact: Kirk Iwamoto City & County of Honolulu Address: 630 South Beretania Street; Chemistry Lab City: Honolulu State Zip: HI, 96843 Phone: 808-748-5840 (tel) Email: kiwamoto@hbws.org Project Name: RED-HILL/HBWS sites Event Desc: RUSH Weekly Red Hill Site:		Lab Pk# Arada, Rachelle E-Mail: Rachelle.Arada@et.eurofins.com PWSID:		Carrier Tracking No(s) State of Origin:		COC No: 380-27941-2757.2 Page: Page 2 of 2 Job #:			
Due Date Requested TAT Requested (days): Compliance Project: Δ No PO #: C20525101 exp 05312023 WO #:		Sample Date Sample Time Sample Type (C=Comp, G=grab) Matrix (W=water, S=solid, O=soil, BT=Tissue, A=ur) Preservation Code:		Analysis Requested SUBCONTRACT - 625 PAH Physis LL (EAL) + TICs Reform MS/MSD (Yes or No) 8015B_GRO_LL - (MOD) GRO 8015B_DRO_LL_CS - HNL Ranges C10-C24/C24-C36/C8-C18 626.2_PREC - (MOD) 625plus PLUS TICs 537.1_DM_PREC - 537.1 Full List 533 - All Analytes		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify)		Special Instructions/Note: chlorinated chlorinated chlorinated 380-194002 COC	
Possible Hazard Identification <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		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months		Method of Shipment:		Date/Time: 01-21-26 12:00 Date/Time: 01-21-26 12:00 Date/Time:			
Empty Kit Relinquished by Relinquished by Relinquished by Relinquished by		Received by Received by Received by		Date/Time: 01-21-26 12:00 Date/Time: 01-21-26 12:00 Date/Time:		Cooler Temperature(s) °C and Other Remarks: 6/2/3.1 = 3.1 GR			
Custody Seals Intact: Δ Yes Δ No		Custody Seal No.		Ver 01/16/2019		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: 380-194002-1
SDG Number: PFAS: Aiea Wells Units 1&2 P2

Login Number: 194002

List Number: 1

Creator: Segura, Ryan

List Source: Eurofins 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).	True	
Samples do not require splitting or compositing.	True	
Container provided by EEA	True	

