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ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Erwin Kawata
City & County of Honolulu
630 South Beretania Street
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Honolulu, Hawaii 96843

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JOB DESCRIPTION

RED-HILL
PFAS: Aiea Gulch Wells P1/P2

JOB NUMBER

380-190973-1

Eurofins 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 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
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Definitions/Glossary

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

Job ID: 380-190973-1
SDG: PFAS: Aiea Gulch Wells P1/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: 380-190973-1

Job ID: 380-190973-1

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Job Narrative 380-190973-1

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 1/7/2026 9:35 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.

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Detection Summary

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

Job ID: 380-190973-1
SDG: PFAS: Aiea Gulch Wells P1/P2

Client Sample ID: AIEA GULCH WELLS P1

Lab Sample ID: 380-190973-1

No Detections.

Client Sample ID: AIEA GULCH WELLS P2

Lab Sample ID: 380-190973-2

No Detections.

Client Sample ID: FB AIEA GULCH WELLS P1

Lab Sample ID: 380-190973-3

No Detections.

Client Sample ID: FB AIEA GULCH WELLS P2

Lab Sample ID: 380-190973-4

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: 380-190973-1
SDG: PFAS: Aiea Gulch Wells P1/P2

Client Sample ID: AIEA GULCH WELLS P1

Lab Sample ID: 380-190973-1

Date Collected: 01/05/26 09:00

Matrix: Water

Date Received: 01/07/26 09:35

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		01/08/26 06:19	01/08/26 17:19	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		01/08/26 06:19	01/08/26 17:19	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		01/08/26 06:19	01/08/26 17:19	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		01/08/26 06:19	01/08/26 17:19	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		01/08/26 06:19	01/08/26 17:19	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		01/08/26 06:19	01/08/26 17:19	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		01/08/26 06:19	01/08/26 17:19	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		01/08/26 06:19	01/08/26 17:19	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		01/08/26 06:19	01/08/26 17:19	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		01/08/26 06:19	01/08/26 17:19	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		01/08/26 06:19	01/08/26 17:19	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		01/08/26 06:19	01/08/26 17:19	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		01/08/26 06:19	01/08/26 17:19	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		01/08/26 06:19	01/08/26 17:19	1
Perfluorobutanoic acid (PFBA)	<2.0		2.0	ng/L		01/08/26 06:19	01/08/26 17:19	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0	ng/L		01/08/26 06:19	01/08/26 17:19	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0	ng/L		01/08/26 06:19	01/08/26 17:19	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0	ng/L		01/08/26 06:19	01/08/26 17:19	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		2.0	ng/L		01/08/26 06:19	01/08/26 17:19	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<2.0		2.0	ng/L		01/08/26 06:19	01/08/26 17:19	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		01/08/26 06:19	01/08/26 17:19	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		01/08/26 06:19	01/08/26 17:19	1
Perfluoropentanoic acid (PFPeA)	<2.0		2.0	ng/L		01/08/26 06:19	01/08/26 17:19	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		01/08/26 06:19	01/08/26 17:19	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		01/08/26 06:19	01/08/26 17:19	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	90		50 - 200	01/08/26 06:19	01/08/26 17:19	1
13C6 PFDA	103		50 - 200	01/08/26 06:19	01/08/26 17:19	1
13C5 PFHxA	93		50 - 200	01/08/26 06:19	01/08/26 17:19	1
13C4 PFHpA	99		50 - 200	01/08/26 06:19	01/08/26 17:19	1
13C8 PFOA	106		50 - 200	01/08/26 06:19	01/08/26 17:19	1
13C9 PFNA	104		50 - 200	01/08/26 06:19	01/08/26 17:19	1
13C7 PFUnA	100		50 - 200	01/08/26 06:19	01/08/26 17:19	1
13C2 PFDoA	104		50 - 200	01/08/26 06:19	01/08/26 17:19	1
13C4 PFBA	105		50 - 200	01/08/26 06:19	01/08/26 17:19	1
13C5 PFPeA	100		50 - 200	01/08/26 06:19	01/08/26 17:19	1
13C3 PFBS	106		50 - 200	01/08/26 06:19	01/08/26 17:19	1
13C3 PFHxS	107		50 - 200	01/08/26 06:19	01/08/26 17:19	1
13C8 PFOS	108		50 - 200	01/08/26 06:19	01/08/26 17:19	1

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Client Sample Results

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

Job ID: 380-190973-1
SDG: PFAS: Aiea Gulch Wells P1/P2

Client Sample ID: AIEA GULCH WELLS P1

Lab Sample ID: 380-190973-1

Date Collected: 01/05/26 09:00

Matrix: Water

Date Received: 01/07/26 09:35

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2-4:2-FTS	117		50 - 200	01/08/26 06:19	01/08/26 17:19	1
13C2-6:2-FTS	115		50 - 200	01/08/26 06:19	01/08/26 17:19	1
13C2-8:2-FTS	113		50 - 200	01/08/26 06:19	01/08/26 17:19	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		01/08/26 03:19	01/08/26 23:50	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		01/08/26 03:19	01/08/26 23:50	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		01/08/26 03:19	01/08/26 23:50	1
N-methylperfluorooctanesulfonamide acetic acid (NMeFOSAA)	<2.0		2.0	ng/L		01/08/26 03:19	01/08/26 23:50	1
N-ethylperfluorooctanesulfonamide acetic acid (NEtFOSAA)	<2.0		2.0	ng/L		01/08/26 03:19	01/08/26 23:50	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		01/08/26 03:19	01/08/26 23:50	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		01/08/26 03:19	01/08/26 23:50	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		01/08/26 03:19	01/08/26 23:50	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		01/08/26 03:19	01/08/26 23:50	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		01/08/26 03:19	01/08/26 23:50	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		01/08/26 03:19	01/08/26 23:50	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		01/08/26 03:19	01/08/26 23:50	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		01/08/26 03:19	01/08/26 23:50	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0	ng/L		01/08/26 03:19	01/08/26 23:50	1
Perfluorotridecanoic acid (PFTrDA)	<2.0		2.0	ng/L		01/08/26 03:19	01/08/26 23:50	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		01/08/26 03:19	01/08/26 23:50	1
11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		01/08/26 03:19	01/08/26 23:50	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		01/08/26 03:19	01/08/26 23:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	93		70 - 130			01/08/26 03:19	01/08/26 23:50	1
13C2 PFHxA	118		70 - 130			01/08/26 03:19	01/08/26 23:50	1
13C2 PFDA	123		70 - 130			01/08/26 03:19	01/08/26 23:50	1
13C3-GenX	99		70 - 130			01/08/26 03:19	01/08/26 23:50	1

Client Sample ID: AIEA GULCH WELLS P2

Lab Sample ID: 380-190973-2

Date Collected: 01/05/26 09:30

Matrix: Water

Date Received: 01/07/26 09:35

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		01/08/26 06:19	01/08/26 20:18	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		01/08/26 06:19	01/08/26 20:18	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		01/08/26 06:19	01/08/26 20:18	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		01/08/26 06:19	01/08/26 20:18	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		01/08/26 06:19	01/08/26 20:18	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		01/08/26 06:19	01/08/26 20:18	1

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Client Sample Results

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

Job ID: 380-190973-1
SDG: PFAS: Aiea Gulch Wells P1/P2

Client Sample ID: AIEA GULCH WELLS P2

Lab Sample ID: 380-190973-2

Date Collected: 01/05/26 09:30

Matrix: Water

Date Received: 01/07/26 09:35

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		01/08/26 06:19	01/08/26 20:18	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		01/08/26 06:19	01/08/26 20:18	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		01/08/26 06:19	01/08/26 20:18	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		01/08/26 06:19	01/08/26 20:18	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		01/08/26 06:19	01/08/26 20:18	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		01/08/26 06:19	01/08/26 20:18	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		01/08/26 06:19	01/08/26 20:18	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		01/08/26 06:19	01/08/26 20:18	1
Perfluorobutanoic acid (PFBA)	<2.0		2.0	ng/L		01/08/26 06:19	01/08/26 20:18	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0	ng/L		01/08/26 06:19	01/08/26 20:18	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0	ng/L		01/08/26 06:19	01/08/26 20:18	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0	ng/L		01/08/26 06:19	01/08/26 20:18	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		2.0	ng/L		01/08/26 06:19	01/08/26 20:18	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<2.0		2.0	ng/L		01/08/26 06:19	01/08/26 20:18	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		01/08/26 06:19	01/08/26 20:18	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		01/08/26 06:19	01/08/26 20:18	1
Perfluoropentanoic acid (PFPeA)	<2.0		2.0	ng/L		01/08/26 06:19	01/08/26 20:18	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		01/08/26 06:19	01/08/26 20:18	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		01/08/26 06:19	01/08/26 20:18	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	91		50 - 200	01/08/26 06:19	01/08/26 20:18	1
13C6 PFDA	99		50 - 200	01/08/26 06:19	01/08/26 20:18	1
13C5 PFHxA	97		50 - 200	01/08/26 06:19	01/08/26 20:18	1
13C4 PFHpA	101		50 - 200	01/08/26 06:19	01/08/26 20:18	1
13C8 PFOA	99		50 - 200	01/08/26 06:19	01/08/26 20:18	1
13C9 PFNA	101		50 - 200	01/08/26 06:19	01/08/26 20:18	1
13C7 PFUnA	100		50 - 200	01/08/26 06:19	01/08/26 20:18	1
13C2 PFDoA	103		50 - 200	01/08/26 06:19	01/08/26 20:18	1
13C4 PFBA	103		50 - 200	01/08/26 06:19	01/08/26 20:18	1
13C5 PFPeA	100		50 - 200	01/08/26 06:19	01/08/26 20:18	1
13C3 PFBS	105		50 - 200	01/08/26 06:19	01/08/26 20:18	1
13C3 PFHxS	103		50 - 200	01/08/26 06:19	01/08/26 20:18	1
13C8 PFOS	104		50 - 200	01/08/26 06:19	01/08/26 20:18	1
13C2-4:2-FTS	116		50 - 200	01/08/26 06:19	01/08/26 20:18	1
13C2-6:2-FTS	116		50 - 200	01/08/26 06:19	01/08/26 20:18	1
13C2-8:2-FTS	112		50 - 200	01/08/26 06:19	01/08/26 20:18	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		01/08/26 03:19	01/09/26 00:00	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		01/08/26 03:19	01/09/26 00:00	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		01/08/26 03:19	01/09/26 00:00	1

Eurofins Pomona

Client Sample Results

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

Job ID: 380-190973-1
SDG: PFAS: Aiea Gulch Wells P1/P2

Client Sample ID: AIEA GULCH WELLS P2

Lab Sample ID: 380-190973-2

Date Collected: 01/05/26 09:30

Matrix: Water

Date Received: 01/07/26 09:35

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		2.0	ng/L		01/08/26 03:19	01/09/26 00:00	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		2.0	ng/L		01/08/26 03:19	01/09/26 00:00	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		01/08/26 03:19	01/09/26 00:00	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		01/08/26 03:19	01/09/26 00:00	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		01/08/26 03:19	01/09/26 00:00	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		01/08/26 03:19	01/09/26 00:00	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		01/08/26 03:19	01/09/26 00:00	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		01/08/26 03:19	01/09/26 00:00	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		01/08/26 03:19	01/09/26 00:00	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		01/08/26 03:19	01/09/26 00:00	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0	ng/L		01/08/26 03:19	01/09/26 00:00	1
Perfluorotridecanoic acid (PFTrDA)	<2.0		2.0	ng/L		01/08/26 03:19	01/09/26 00:00	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		01/08/26 03:19	01/09/26 00:00	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		01/08/26 03:19	01/09/26 00:00	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		01/08/26 03:19	01/09/26 00:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	103		70 - 130			01/08/26 03:19	01/09/26 00:00	1
13C2 PFHxA	109		70 - 130			01/08/26 03:19	01/09/26 00:00	1
13C2 PFDA	113		70 - 130			01/08/26 03:19	01/09/26 00:00	1
13C3-GenX	102		70 - 130			01/08/26 03:19	01/09/26 00:00	1

Client Sample ID: FB AIEA GULCH WELLS P1

Lab Sample ID: 380-190973-3

Date Collected: 01/05/26 09:00

Matrix: Water

Date Received: 01/07/26 09:35

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		01/08/26 06:19	01/08/26 20:28	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		01/08/26 06:19	01/08/26 20:28	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		01/08/26 06:19	01/08/26 20:28	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		01/08/26 06:19	01/08/26 20:28	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		01/08/26 06:19	01/08/26 20:28	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		01/08/26 06:19	01/08/26 20:28	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		01/08/26 06:19	01/08/26 20:28	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		01/08/26 06:19	01/08/26 20:28	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		01/08/26 06:19	01/08/26 20:28	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		01/08/26 06:19	01/08/26 20:28	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		01/08/26 06:19	01/08/26 20:28	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		01/08/26 06:19	01/08/26 20:28	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		01/08/26 06:19	01/08/26 20:28	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		01/08/26 06:19	01/08/26 20:28	1
Perfluorobutanoic acid (PFBA)	<2.0		2.0	ng/L		01/08/26 06:19	01/08/26 20:28	1

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Client Sample Results

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

Job ID: 380-190973-1
SDG: PFAS: Aiea Gulch Wells P1/P2

Client Sample ID: FB AIEA GULCH WELLS P1

Lab Sample ID: 380-190973-3

Date Collected: 01/05/26 09:00

Matrix: Water

Date Received: 01/07/26 09:35

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0	ng/L		01/08/26 06:19	01/08/26 20:28	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0	ng/L		01/08/26 06:19	01/08/26 20:28	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0	ng/L		01/08/26 06:19	01/08/26 20:28	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		2.0	ng/L		01/08/26 06:19	01/08/26 20:28	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<2.0		2.0	ng/L		01/08/26 06:19	01/08/26 20:28	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		01/08/26 06:19	01/08/26 20:28	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		01/08/26 06:19	01/08/26 20:28	1
Perfluoropentanoic acid (PFPeA)	<2.0		2.0	ng/L		01/08/26 06:19	01/08/26 20:28	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		01/08/26 06:19	01/08/26 20:28	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		01/08/26 06:19	01/08/26 20:28	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	96		50 - 200	01/08/26 06:19	01/08/26 20:28	1
13C6 PFDA	106		50 - 200	01/08/26 06:19	01/08/26 20:28	1
13C5 PFHxA	104		50 - 200	01/08/26 06:19	01/08/26 20:28	1
13C4 PFHpA	102		50 - 200	01/08/26 06:19	01/08/26 20:28	1
13C8 PFOA	108		50 - 200	01/08/26 06:19	01/08/26 20:28	1
13C9 PFNA	106		50 - 200	01/08/26 06:19	01/08/26 20:28	1
13C7 PFUnA	108		50 - 200	01/08/26 06:19	01/08/26 20:28	1
13C2 PFDoA	107		50 - 200	01/08/26 06:19	01/08/26 20:28	1
13C4 PFBA	107		50 - 200	01/08/26 06:19	01/08/26 20:28	1
13C5 PFPeA	101		50 - 200	01/08/26 06:19	01/08/26 20:28	1
13C3 PFBS	109		50 - 200	01/08/26 06:19	01/08/26 20:28	1
13C3 PFHxS	111		50 - 200	01/08/26 06:19	01/08/26 20:28	1
13C8 PFOS	109		50 - 200	01/08/26 06:19	01/08/26 20:28	1
13C2-4:2-FTS	121		50 - 200	01/08/26 06:19	01/08/26 20:28	1
13C2-6:2-FTS	121		50 - 200	01/08/26 06:19	01/08/26 20:28	1
13C2-8:2-FTS	120		50 - 200	01/08/26 06:19	01/08/26 20:28	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		01/08/26 03:19	01/09/26 00:09	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		01/08/26 03:19	01/09/26 00:09	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		01/08/26 03:19	01/09/26 00:09	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		2.0	ng/L		01/08/26 03:19	01/09/26 00:09	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		2.0	ng/L		01/08/26 03:19	01/09/26 00:09	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		01/08/26 03:19	01/09/26 00:09	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		01/08/26 03:19	01/09/26 00:09	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		01/08/26 03:19	01/09/26 00:09	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		01/08/26 03:19	01/09/26 00:09	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		01/08/26 03:19	01/09/26 00:09	1

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Client Sample Results

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

Job ID: 380-190973-1
SDG: PFAS: Aiea Gulch Wells P1/P2

Client Sample ID: FB AIEA GULCH WELLS P1

Lab Sample ID: 380-190973-3

Date Collected: 01/05/26 09:00

Matrix: Water

Date Received: 01/07/26 09:35

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		01/08/26 03:19	01/09/26 00:09	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		01/08/26 03:19	01/09/26 00:09	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		01/08/26 03:19	01/09/26 00:09	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0	ng/L		01/08/26 03:19	01/09/26 00:09	1
Perfluorotridecanoic acid (PFTrDA)	<2.0		2.0	ng/L		01/08/26 03:19	01/09/26 00:09	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		01/08/26 03:19	01/09/26 00:09	1
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		01/08/26 03:19	01/09/26 00:09	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		01/08/26 03:19	01/09/26 00:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
d5-NEFOSAA	97		70 - 130			01/08/26 03:19	01/09/26 00:09	1
13C2 PFHxA	109		70 - 130			01/08/26 03:19	01/09/26 00:09	1
13C2 PFDA	113		70 - 130			01/08/26 03:19	01/09/26 00:09	1
13C3-GenX	91		70 - 130			01/08/26 03:19	01/09/26 00:09	1

Client Sample ID: FB AIEA GULCH WELLS P2

Lab Sample ID: 380-190973-4

Date Collected: 01/05/26 09:30

Matrix: Water

Date Received: 01/07/26 09:35

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		01/08/26 06:19	01/08/26 20:37	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		01/08/26 06:19	01/08/26 20:37	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		01/08/26 06:19	01/08/26 20:37	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		01/08/26 06:19	01/08/26 20:37	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		01/08/26 06:19	01/08/26 20:37	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		01/08/26 06:19	01/08/26 20:37	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		01/08/26 06:19	01/08/26 20:37	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		01/08/26 06:19	01/08/26 20:37	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		01/08/26 06:19	01/08/26 20:37	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		01/08/26 06:19	01/08/26 20:37	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		01/08/26 06:19	01/08/26 20:37	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		01/08/26 06:19	01/08/26 20:37	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		01/08/26 06:19	01/08/26 20:37	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		01/08/26 06:19	01/08/26 20:37	1
Perfluorobutanoic acid (PFBA)	<2.0		2.0	ng/L		01/08/26 06:19	01/08/26 20:37	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0	ng/L		01/08/26 06:19	01/08/26 20:37	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0	ng/L		01/08/26 06:19	01/08/26 20:37	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0	ng/L		01/08/26 06:19	01/08/26 20:37	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		2.0	ng/L		01/08/26 06:19	01/08/26 20:37	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<2.0		2.0	ng/L		01/08/26 06:19	01/08/26 20:37	1

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Client Sample Results

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

Job ID: 380-190973-1
SDG: PFAS: Aiea Gulch Wells P1/P2

Client Sample ID: FB AIEA GULCH WELLS P2

Lab Sample ID: 380-190973-4

Date Collected: 01/05/26 09:30

Matrix: Water

Date Received: 01/07/26 09:35

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		01/08/26 06:19	01/08/26 20:37	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		01/08/26 06:19	01/08/26 20:37	1
Perfluoropentanoic acid (PFPeA)	<2.0		2.0	ng/L		01/08/26 06:19	01/08/26 20:37	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		01/08/26 06:19	01/08/26 20:37	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		01/08/26 06:19	01/08/26 20:37	1
Isotope Dilution	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	90		50 - 200			01/08/26 06:19	01/08/26 20:37	1
13C6 PFDA	105		50 - 200			01/08/26 06:19	01/08/26 20:37	1
13C5 PFHxA	98		50 - 200			01/08/26 06:19	01/08/26 20:37	1
13C4 PFHpA	106		50 - 200			01/08/26 06:19	01/08/26 20:37	1
13C8 PFOA	105		50 - 200			01/08/26 06:19	01/08/26 20:37	1
13C9 PFNA	104		50 - 200			01/08/26 06:19	01/08/26 20:37	1
13C7 PFUnA	107		50 - 200			01/08/26 06:19	01/08/26 20:37	1
13C2 PFDoA	106		50 - 200			01/08/26 06:19	01/08/26 20:37	1
13C4 PFBA	103		50 - 200			01/08/26 06:19	01/08/26 20:37	1
13C5 PFPeA	102		50 - 200			01/08/26 06:19	01/08/26 20:37	1
13C3 PFBS	110		50 - 200			01/08/26 06:19	01/08/26 20:37	1
13C3 PFHxS	108		50 - 200			01/08/26 06:19	01/08/26 20:37	1
13C8 PFOS	106		50 - 200			01/08/26 06:19	01/08/26 20:37	1
13C2-4:2-FTS	119		50 - 200			01/08/26 06:19	01/08/26 20:37	1
13C2-6:2-FTS	114		50 - 200			01/08/26 06:19	01/08/26 20:37	1
13C2-8:2-FTS	119		50 - 200			01/08/26 06:19	01/08/26 20:37	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		01/08/26 03:19	01/09/26 00:19	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		01/08/26 03:19	01/09/26 00:19	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		01/08/26 03:19	01/09/26 00:19	1
N-methylperfluorooctanesulfonamide acetic acid (NMeFOSAA)	<2.0		2.0	ng/L		01/08/26 03:19	01/09/26 00:19	1
N-ethylperfluorooctanesulfonamide acetic acid (NEtFOSAA)	<2.0		2.0	ng/L		01/08/26 03:19	01/09/26 00:19	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		01/08/26 03:19	01/09/26 00:19	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		01/08/26 03:19	01/09/26 00:19	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		01/08/26 03:19	01/09/26 00:19	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		01/08/26 03:19	01/09/26 00:19	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		01/08/26 03:19	01/09/26 00:19	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		01/08/26 03:19	01/09/26 00:19	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		01/08/26 03:19	01/09/26 00:19	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		01/08/26 03:19	01/09/26 00:19	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0	ng/L		01/08/26 03:19	01/09/26 00:19	1
Perfluorotridecanoic acid (PFTrDA)	<2.0		2.0	ng/L		01/08/26 03:19	01/09/26 00:19	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		01/08/26 03:19	01/09/26 00:19	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		01/08/26 03:19	01/09/26 00:19	1

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Client Sample Results

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

Job ID: 380-190973-1
 SDG: PFAS: Aiea Gulch Wells P1/P2

Client Sample ID: FB AIEA GULCH WELLS P2

Lab Sample ID: 380-190973-4

Date Collected: 01/05/26 09:30

Matrix: Water

Date Received: 01/07/26 09:35

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		01/08/26 03:19	01/09/26 00:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	102		70 - 130			01/08/26 03:19	01/09/26 00:19	1
13C2 PFHxA	114		70 - 130			01/08/26 03:19	01/09/26 00:19	1
13C2 PFDA	127		70 - 130			01/08/26 03:19	01/09/26 00:19	1
13C3-GenX	103		70 - 130			01/08/26 03:19	01/09/26 00:19	1

Action Limit Summary

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

Job ID: 380-190973-1
SDG: PFAS: Aiea Gulch Wells P1/P2

Client Sample ID: AIEA GULCH WELLS P1

Lab Sample ID: 380-190973-1

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: AIEA GULCH WELLS P2

Lab Sample ID: 380-190973-2

Compliance Check

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

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

Client Sample ID: FB AIEA GULCH WELLS P1

Lab Sample ID: 380-190973-3

Compliance Check

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

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

Action Limit Summary

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

Job ID: 380-190973-1
SDG: PFAS: Aiea Gulch Wells P1/P2

Client Sample ID: FB AIEA GULCH WELLS P1 (Continued)

Lab Sample ID: 380-190973-3

Compliance Check

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

Analyte	Result	Qualifier	Unit	EPAMCL	RL	Method	Prep Type
				Limit			
Perfluorooctanesulfonic acid (PFOS)	<2.0		ng/L	4	2.0	537.1	Total/NA
Perfluorooctanoic acid (PFOA)	<2.0		ng/L	4	2.0	537.1	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	<2.0		ng/L	10	2.0	537.1	Total/NA
Perfluorononanoic acid (PFNA)	<2.0		ng/L	10	2.0	537.1	Total/NA

Client Sample ID: FB AIEA GULCH WELLS P2

Lab Sample ID: 380-190973-4

Compliance Check

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

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

Surrogate Summary

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

Job ID: 380-190973-1
 SDG: PFAS: Aiea Gulch Wells P1/P2

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)
380-190973-1	AIEA GULCH WELLS P1	93	118	123	99
380-190973-2	AIEA GULCH WELLS P2	103	109	113	102
380-190973-3	FB AIEA GULCH WELLS P1	97	109	113	91
380-190973-4	FB AIEA GULCH WELLS P2	102	114	127	103
380-191115-A-1-B MS	Matrix Spike	101	111	116	97
380-191115-A-1-C MSD	Matrix Spike Duplicate	104	118	126	106
LCS 380-196349/23-A	Lab Control Sample	92	109	112	94
MBL 380-196349/21-A	Method Blank	99	108	116	98
MRL 380-196349/22-A	Lab Control Sample	100	109	111	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: 380-190973-1
 SDG: PFAS: Aiea Gulch Wells P1/P2

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)	PFD _o A (50-200)
380-190973-1	AIEA GULCH WELLS P1	90	103	93	99	106	104	100	104
380-190973-1 MS	AIEA GULCH WELLS P1	94	101	95	101	104	103	104	104
380-190973-1 MSD	AIEA GULCH WELLS P1	91	103	95	100	104	96	100	103
380-190973-2	AIEA GULCH WELLS P2	91	99	97	101	99	101	100	103
380-190973-3	FB AIEA GULCH WELLS P1	96	106	104	102	108	106	108	107
380-190973-4	FB AIEA GULCH WELLS P2	90	105	98	106	105	104	107	106
LCS 380-196356/22-A	Lab Control Sample	91	110	99	104	108	110	111	109
MBL 380-196356/20-A	Method Blank	83	94	90	93	95	96	93	97
MRL 380-196356/21-A	Lab Control Sample	90	102	100	102	106	103	103	99

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)
380-190973-1	AIEA GULCH WELLS P1	105	100	106	107	108	117	115	113
380-190973-1 MS	AIEA GULCH WELLS P1	100	101	97	100	101	110	110	111
380-190973-1 MSD	AIEA GULCH WELLS P1	103	102	105	105	102	113	118	112
380-190973-2	AIEA GULCH WELLS P2	103	100	105	103	104	116	116	112
380-190973-3	FB AIEA GULCH WELLS P1	107	101	109	111	109	121	121	120
380-190973-4	FB AIEA GULCH WELLS P2	103	102	110	108	106	119	114	119
LCS 380-196356/22-A	Lab Control Sample	101	97	104	105	103	118	116	113
MBL 380-196356/20-A	Method Blank	96	92	96	95	95	106	104	105
MRL 380-196356/21-A	Lab Control Sample	102	98	104	104	103	112	111	112

Surrogate Legend

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

QC Sample Results

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

Job ID: 380-190973-1
SDG: PFAS: Aiea Gulch Wells P1/P2

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

Lab Sample ID: MBL 380-196356/20-A
Matrix: Water
Analysis Batch: 196471

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 196356

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosfluoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS)	<0.30		2.0	ng/L		01/08/26 06:19	01/08/26 16:50	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS)	<0.30		2.0	ng/L		01/08/26 06:19	01/08/26 16:50	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.60		2.0	ng/L		01/08/26 06:19	01/08/26 16:50	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<1.0		2.0	ng/L		01/08/26 06:19	01/08/26 16:50	1
Perfluorobutanesulfonic acid (PFBS)	<0.37		2.0	ng/L		01/08/26 06:19	01/08/26 16:50	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	ng/L		01/08/26 06:19	01/08/26 16:50	1
Perfluorododecanoic acid (PFDoA)	<0.54		2.0	ng/L		01/08/26 06:19	01/08/26 16:50	1
Perfluoroheptanoic acid (PFHpA)	<0.39		2.0	ng/L		01/08/26 06:19	01/08/26 16:50	1
Perfluorohexanesulfonic acid (PFHxS)	<0.32		2.0	ng/L		01/08/26 06:19	01/08/26 16:50	1
Perfluorohexanoic acid (PFHxA)	<0.46		2.0	ng/L		01/08/26 06:19	01/08/26 16:50	1
Perfluorononanoic acid (PFNA)	<0.40		2.0	ng/L		01/08/26 06:19	01/08/26 16:50	1
Perfluorooctanesulfonic acid (PFOS)	<0.43		2.0	ng/L		01/08/26 06:19	01/08/26 16:50	1
Perfluorooctanoic acid (PFOA)	<0.38		2.0	ng/L		01/08/26 06:19	01/08/26 16:50	1
Perfluoroundecanoic acid (PFUnA)	<0.42		2.0	ng/L		01/08/26 06:19	01/08/26 16:50	1
Perfluorobutanoic acid (PFBA)	<0.69		2.0	ng/L		01/08/26 06:19	01/08/26 16:50	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<0.38		2.0	ng/L		01/08/26 06:19	01/08/26 16:50	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<0.37		2.0	ng/L		01/08/26 06:19	01/08/26 16:50	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<0.48		2.0	ng/L		01/08/26 06:19	01/08/26 16:50	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.47		2.0	ng/L		01/08/26 06:19	01/08/26 16:50	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<0.25		2.0	ng/L		01/08/26 06:19	01/08/26 16:50	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.46		2.0	ng/L		01/08/26 06:19	01/08/26 16:50	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.15		2.0	ng/L		01/08/26 06:19	01/08/26 16:50	1
Perfluoropentanoic acid (PFPeA)	<0.38		2.0	ng/L		01/08/26 06:19	01/08/26 16:50	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.36		2.0	ng/L		01/08/26 06:19	01/08/26 16:50	1
Perfluoropentanesulfonic acid (PFPeS)	<0.39		2.0	ng/L		01/08/26 06:19	01/08/26 16:50	1

Isotope Dilution	MBL %Recovery	MBL Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	83		50 - 200	01/08/26 06:19	01/08/26 16:50	1
13C6 PFDA	94		50 - 200	01/08/26 06:19	01/08/26 16:50	1
13C5 PFHxA	90		50 - 200	01/08/26 06:19	01/08/26 16:50	1
13C4 PFHpA	93		50 - 200	01/08/26 06:19	01/08/26 16:50	1
13C8 PFOA	95		50 - 200	01/08/26 06:19	01/08/26 16:50	1
13C9 PFNA	96		50 - 200	01/08/26 06:19	01/08/26 16:50	1
13C7 PFUnA	93		50 - 200	01/08/26 06:19	01/08/26 16:50	1
13C2 PFDoA	97		50 - 200	01/08/26 06:19	01/08/26 16:50	1
13C4 PFBA	96		50 - 200	01/08/26 06:19	01/08/26 16:50	1
13C5 PFPeA	92		50 - 200	01/08/26 06:19	01/08/26 16:50	1
13C3 PFBS	96		50 - 200	01/08/26 06:19	01/08/26 16:50	1
13C3 PFHxS	95		50 - 200	01/08/26 06:19	01/08/26 16:50	1

Eurofins Pomona

QC Sample Results

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

Job ID: 380-190973-1
SDG: PFAS: Aiea Gulch Wells P1/P2

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

Lab Sample ID: MBL 380-196356/20-A
Matrix: Water
Analysis Batch: 196471

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 196356

<i>Isotope Dilution</i>	<i>MBL %Recovery</i>	<i>MBL Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C8 PFOS	95		50 - 200	01/08/26 06:19	01/08/26 16:50	1
13C2-4:2-FTS	106		50 - 200	01/08/26 06:19	01/08/26 16:50	1
13C2-6:2-FTS	104		50 - 200	01/08/26 06:19	01/08/26 16:50	1
13C2-8:2-FTS	105		50 - 200	01/08/26 06:19	01/08/26 16:50	1

Lab Sample ID: LCS 380-196356/22-A
Matrix: Water
Analysis Batch: 196471

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 196356

<i>Analyte</i>	<i>Spike Added</i>	<i>LCS Result</i>	<i>LCS Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec Limits</i>
11-Chloroeicosfluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	60.2	52.4		ng/L		87	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	60.2	53.4		ng/L		89	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	60.2	56.3		ng/L		93	70 - 130
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	60.2	58.9		ng/L		98	70 - 130
Perfluorobutanesulfonic acid (PFBS)	60.2	58.7		ng/L		98	70 - 130
Perfluorodecanoic acid (PFDA)	60.2	57.8		ng/L		96	70 - 130
Perfluorododecanoic acid (PFDoA)	60.2	56.5		ng/L		94	70 - 130
Perfluoroheptanoic acid (PFHpA)	60.2	56.2		ng/L		93	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	60.2	56.3		ng/L		93	70 - 130
Perfluorohexanoic acid (PFHxA)	60.2	61.4		ng/L		102	70 - 130
Perfluorononanoic acid (PFNA)	60.2	56.2		ng/L		93	70 - 130
Perfluorooctanesulfonic acid (PFOS)	60.2	56.6		ng/L		94	70 - 130
Perfluorooctanoic acid (PFOA)	60.2	56.5		ng/L		94	70 - 130
Perfluoroundecanoic acid (PFUnA)	60.2	57.2		ng/L		95	70 - 130
Perfluorobutanoic acid (PFBA)	60.2	56.1		ng/L		93	70 - 130
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	60.2	59.7		ng/L		99	70 - 130
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	60.2	56.0		ng/L		93	70 - 130
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	60.2	55.3		ng/L		92	70 - 130
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	60.2	55.3		ng/L		92	70 - 130
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	60.2	55.0		ng/L		91	70 - 130
Perfluoro-3-methoxypropanoic acid (PFMPA)	60.2	51.3		ng/L		85	70 - 130
Perfluoro-4-methoxybutanoic acid (PFMBA)	60.2	54.5		ng/L		90	70 - 130
Perfluoropentanoic acid (PFPeA)	60.2	58.5		ng/L		97	70 - 130
Perfluoroheptanesulfonic acid (PFHpS)	60.2	57.6		ng/L		96	70 - 130

QC Sample Results

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

Job ID: 380-190973-1
SDG: PFAS: Aiea Gulch Wells P1/P2

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

Lab Sample ID: LCS 380-196356/22-A
Matrix: Water
Analysis Batch: 196471

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 196356

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoropentanesulfonic acid (PFPeS)	60.2	54.5		ng/L		91	70 - 130
LCS LCS							
Isotope Dilution	%Recovery	Qualifier	Limits				
13C3 HFPO-DA	91		50 - 200				
13C6 PFDA	110		50 - 200				
13C5 PFHxA	99		50 - 200				
13C4 PFHpA	104		50 - 200				
13C8 PFOA	108		50 - 200				
13C9 PFNA	110		50 - 200				
13C7 PFUnA	111		50 - 200				
13C2 PFDoA	109		50 - 200				
13C4 PFBA	101		50 - 200				
13C5 PFPeA	97		50 - 200				
13C3 PFBS	104		50 - 200				
13C3 PFHxS	105		50 - 200				
13C8 PFOS	103		50 - 200				
13C2-4:2-FTS	118		50 - 200				
13C2-6:2-FTS	116		50 - 200				
13C2-8:2-FTS	113		50 - 200				

Lab Sample ID: MRL 380-196356/21-A
Matrix: Water
Analysis Batch: 196471

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 196356

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.02	1.86	J	ng/L		92	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	2.02	1.94	J	ng/L		96	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	2.02	1.93	J	ng/L		96	50 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	2.02	2.13	J	ng/L		106	50 - 150
Perfluorobutanesulfonic acid (PFBS)	2.02	2.14	J	ng/L		106	50 - 150
Perfluorodecanoic acid (PFDA)	2.02	2.16	J	ng/L		107	50 - 150
Perfluorododecanoic acid (PFDoA)	2.02	2.21	J	ng/L		109	50 - 150
Perfluoroheptanoic acid (PFHpA)	2.02	2.04	J	ng/L		101	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	2.02	2.05	J	ng/L		102	50 - 150
Perfluorohexanoic acid (PFHxA)	2.02	2.07	J	ng/L		103	50 - 150
Perfluorononanoic acid (PFNA)	2.02	2.10	J	ng/L		104	50 - 150
Perfluorooctanesulfonic acid (PFOS)	2.02	1.99	J	ng/L		99	50 - 150
Perfluorooctanoic acid (PFOA)	2.02	2.00	J	ng/L		99	50 - 150
Perfluoroundecanoic acid (PFUnA)	2.02	2.07	J	ng/L		103	50 - 150
Perfluorobutanoic acid (PFBA)	2.02	2.11	J	ng/L		105	50 - 150

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QC Sample Results

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

Job ID: 380-190973-1
SDG: PFAS: Aiea Gulch Wells P1/P2

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

Lab Sample ID: MRL 380-196356/21-A
Matrix: Water
Analysis Batch: 196471

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 196356

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	2.02	2.23	J	ng/L		111	50 - 150
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	2.02	2.12	J	ng/L		105	50 - 150
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	2.02	2.43	J	ng/L		121	50 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	2.02	1.87	J	ng/L		93	50 - 150
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	2.02	1.97	J	ng/L		98	50 - 150
Perfluoro-3-methoxypropanoic acid (PFMPA)	2.02	1.88	J	ng/L		93	50 - 150
Perfluoro-4-methoxybutanoic acid (PFMBA)	2.02	1.98	J	ng/L		98	50 - 150
Perfluoropentanoic acid (PFPeA)	2.02	2.02	J	ng/L		100	50 - 150
Perfluoroheptanesulfonic acid (PFHpS)	2.02	1.99	J	ng/L		99	50 - 150
Perfluoropentanesulfonic acid (PFPeS)	2.02	1.98	J	ng/L		98	50 - 150

Isotope Dilution	MRL %Recovery	MRL Qualifier	MRL Limits
13C3 HFPO-DA	90		50 - 200
13C6 PFDA	102		50 - 200
13C5 PFHxA	100		50 - 200
13C4 PFHpA	102		50 - 200
13C8 PFOA	106		50 - 200
13C9 PFNA	103		50 - 200
13C7 PFUnA	103		50 - 200
13C2 PFDoA	99		50 - 200
13C4 PFBA	102		50 - 200
13C5 PFPeA	98		50 - 200
13C3 PFBS	104		50 - 200
13C3 PFHxS	104		50 - 200
13C8 PFOS	103		50 - 200
13C2-4:2-FTS	112		50 - 200
13C2-6:2-FTS	111		50 - 200
13C2-8:2-FTS	112		50 - 200

Lab Sample ID: 380-190973-1 MS
Matrix: Water
Analysis Batch: 196471

Client Sample ID: AIEA GULCH WELLS P1
Prep Type: Total/NA
Prep Batch: 196356

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	55.3		ng/L		92	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		60.4	54.9		ng/L		91	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		60.4	59.3		ng/L		98	70 - 130

QC Sample Results

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

Job ID: 380-190973-1
SDG: PFAS: Aiea Gulch Wells P1/P2

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

Lab Sample ID: 380-190973-1 MS

Client Sample ID: AIEA GULCH WELLS P1

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 196471

Prep Batch: 196356

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Hexafluoropropylene Oxide	<2.0		60.4	62.1		ng/L		103	70 - 130
Dimer Acid (HFPO-DA/GenX)									
Perfluorobutanesulfonic acid (PFBS)	<2.0		60.4	64.2		ng/L		106	70 - 130
Perfluorodecanoic acid (PFDA)	<2.0		60.4	64.4		ng/L		107	70 - 130
Perfluorododecanoic acid (PFDoA)	<2.0		60.4	60.7		ng/L		101	70 - 130
Perfluoroheptanoic acid (PFHpA)	<2.0		60.4	59.6		ng/L		99	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	<2.0		60.4	62.7		ng/L		103	70 - 130
Perfluorohexanoic acid (PFHxA)	<2.0		60.4	67.3		ng/L		110	70 - 130
Perfluorononanoic acid (PFNA)	<2.0		60.4	62.2		ng/L		103	70 - 130
Perfluorooctanesulfonic acid (PFOS)	<2.0		60.4	62.1		ng/L		103	70 - 130
Perfluorooctanoic acid (PFOA)	<2.0		60.4	60.1		ng/L		99	70 - 130
Perfluoroundecanoic acid (PFUnA)	<2.0		60.4	62.4		ng/L		103	70 - 130
Perfluorobutanoic acid (PFBA)	<2.0		60.4	62.8		ng/L		104	70 - 130
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		60.4	61.8		ng/L		102	70 - 130
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		60.4	61.0		ng/L		101	70 - 130
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		60.4	62.4		ng/L		103	70 - 130
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		60.4	55.6		ng/L		92	70 - 130
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<2.0		60.4	61.0		ng/L		101	70 - 130
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		60.4	55.9		ng/L		93	70 - 130
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		60.4	57.8		ng/L		96	70 - 130
Perfluoropentanoic acid (PFPeA)	<2.0		60.4	58.3		ng/L		95	70 - 130
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		60.4	60.9		ng/L		101	70 - 130
Perfluoropentanesulfonic acid (PFPeS)	<2.0		60.4	59.1		ng/L		98	70 - 130

Isotope Dilution	MS MS		Limits
	%Recovery	Qualifier	
13C3 HFPO-DA	94		50 - 200
13C6 PFDA	101		50 - 200
13C5 PFHxA	95		50 - 200
13C4 PFHpA	101		50 - 200
13C8 PFOA	104		50 - 200
13C9 PFNA	103		50 - 200
13C7 PFUnA	104		50 - 200
13C2 PFDoA	104		50 - 200
13C4 PFBA	100		50 - 200
13C5 PFPeA	101		50 - 200
13C3 PFBS	97		50 - 200
13C3 PFHxS	100		50 - 200
13C8 PFOS	101		50 - 200

QC Sample Results

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

Job ID: 380-190973-1
SDG: PFAS: Aiea Gulch Wells P1/P2

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

Lab Sample ID: 380-190973-1 MS
Matrix: Water
Analysis Batch: 196471

Client Sample ID: AIEA GULCH WELLS P1
Prep Type: Total/NA
Prep Batch: 196356

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>MS MS Qualifier</i>	<i>Limits</i>
13C2-4:2-FTS	110		50 - 200
13C2-6:2-FTS	110		50 - 200
13C2-8:2-FTS	111		50 - 200

Lab Sample ID: 380-190973-1 MSD
Matrix: Water
Analysis Batch: 196471

Client Sample ID: AIEA GULCH WELLS P1
Prep Type: Total/NA
Prep Batch: 196356

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
11-Chloroeicosfluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		60.4	54.8		ng/L		91	70 - 130	1	30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		60.4	55.6		ng/L		92	70 - 130	1	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		60.4	58.5		ng/L		97	70 - 130	1	30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		60.4	61.9		ng/L		103	70 - 130	0	30
Perfluorobutanesulfonic acid (PFBS)	<2.0		60.4	59.3		ng/L		98	70 - 130	8	30
Perfluorodecanoic acid (PFDA)	<2.0		60.4	60.8		ng/L		101	70 - 130	6	30
Perfluorododecanoic acid (PFDoA)	<2.0		60.4	57.5		ng/L		95	70 - 130	6	30
Perfluoroheptanoic acid (PFHpA)	<2.0		60.4	61.8		ng/L		102	70 - 130	3	30
Perfluorohexanesulfonic acid (PFHxS)	<2.0		60.4	60.7		ng/L		100	70 - 130	3	30
Perfluorohexanoic acid (PFHxA)	<2.0		60.4	68.1		ng/L		112	70 - 130	1	30
Perfluorononanoic acid (PFNA)	<2.0		60.4	62.8		ng/L		104	70 - 130	1	30
Perfluorooctanesulfonic acid (PFOS)	<2.0		60.4	61.2		ng/L		101	70 - 130	1	30
Perfluorooctanoic acid (PFOA)	<2.0		60.4	58.3		ng/L		97	70 - 130	3	30
Perfluoroundecanoic acid (PFUnA)	<2.0		60.4	63.4		ng/L		105	70 - 130	2	30
Perfluorobutanoic acid (PFBA)	<2.0		60.4	61.0		ng/L		101	70 - 130	3	30
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		60.4	66.0		ng/L		109	70 - 130	7	30
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		60.4	64.0		ng/L		106	70 - 130	5	30
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		60.4	59.9		ng/L		99	70 - 130	4	30
Nonfluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		60.4	59.7		ng/L		99	70 - 130	7	30
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<2.0		60.4	58.5		ng/L		97	70 - 130	4	30
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		60.4	54.3		ng/L		90	70 - 130	3	30
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		60.4	57.8		ng/L		96	70 - 130	0	30
Perfluoropentanoic acid (PFPeA)	<2.0		60.4	61.4		ng/L		101	70 - 130	5	30
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		60.4	61.9		ng/L		102	70 - 130	2	30
Perfluoropentanesulfonic acid (PFPeS)	<2.0		60.4	59.9		ng/L		99	70 - 130	1	30

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QC Sample Results

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

Job ID: 380-190973-1
SDG: PFAS: Aiea Gulch Wells P1/P2

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

Isotope Dilution	MSD MSD		Limits
	%Recovery	Qualifier	
13C3 HFPO-DA	91		50 - 200
13C6 PFDA	103		50 - 200
13C5 PFHxA	95		50 - 200
13C4 PFHpA	100		50 - 200
13C8 PFOA	104		50 - 200
13C9 PFNA	96		50 - 200
13C7 PFUnA	100		50 - 200
13C2 PFDoA	103		50 - 200
13C4 PFBA	103		50 - 200
13C5 PFPeA	102		50 - 200
13C3 PFBS	105		50 - 200
13C3 PFHxS	105		50 - 200
13C8 PFOS	102		50 - 200
13C2-4:2-FTS	113		50 - 200
13C2-6:2-FTS	118		50 - 200
13C2-8:2-FTS	112		50 - 200

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

Lab Sample ID: MBL 380-196349/21-A
Matrix: Water
Analysis Batch: 196500

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 196349

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		01/08/26 03:19	01/08/26 20:49	1
Perfluorooctanesulfonic acid (PFOS)	<0.43		2.0	ng/L		01/08/26 03:19	01/08/26 20:49	1
Perfluoroundecanoic acid (PFUnA)	<0.42		2.0	ng/L		01/08/26 03:19	01/08/26 20:49	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.58		2.0	ng/L		01/08/26 03:19	01/08/26 20:49	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.42		2.0	ng/L		01/08/26 03:19	01/08/26 20:49	1
Perfluorohexanoic acid (PFHxA)	<0.46		2.0	ng/L		01/08/26 03:19	01/08/26 20:49	1
Perfluorododecanoic acid (PFDoA)	<0.54		2.0	ng/L		01/08/26 03:19	01/08/26 20:49	1
Perfluorooctanoic acid (PFOA)	<0.38		2.0	ng/L		01/08/26 03:19	01/08/26 20:49	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	ng/L		01/08/26 03:19	01/08/26 20:49	1
Perfluorohexanesulfonic acid (PFHxS)	<0.32		2.0	ng/L		01/08/26 03:19	01/08/26 20:49	1
Perfluorobutanesulfonic acid (PFBS)	<0.37		2.0	ng/L		01/08/26 03:19	01/08/26 20:49	1
Perfluoroheptanoic acid (PFHpA)	<0.39		2.0	ng/L		01/08/26 03:19	01/08/26 20:49	1
Perfluorononanoic acid (PFNA)	<0.40		2.0	ng/L		01/08/26 03:19	01/08/26 20:49	1
Perfluorotetradecanoic acid (PFTA)	<0.54		2.0	ng/L		01/08/26 03:19	01/08/26 20:49	1
Perfluorotridecanoic acid (PFTrDA)	<0.36		2.0	ng/L		01/08/26 03:19	01/08/26 20:49	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<0.30		2.0	ng/L		01/08/26 03:19	01/08/26 20:49	1
11-Chloroeicosfluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<0.30		2.0	ng/L		01/08/26 03:19	01/08/26 20:49	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.60		2.0	ng/L		01/08/26 03:19	01/08/26 20:49	1
Surrogate	MBL MBL		Limits			Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier						
d5-NEtFOSAA	99		70 - 130			01/08/26 03:19	01/08/26 20:49	1
13C2 PFHxA	108		70 - 130			01/08/26 03:19	01/08/26 20:49	1
13C2 PFDA	116		70 - 130			01/08/26 03:19	01/08/26 20:49	1

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QC Sample Results

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

Job ID: 380-190973-1
SDG: PFAS: Aiea Gulch Wells P1/P2

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

Lab Sample ID: MBL 380-196349/21-A
Matrix: Water
Analysis Batch: 196500

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 196349

<i>Surrogate</i>	<i>MBL</i>	<i>MBL</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C3-GenX	98	Qualifier	70 - 130	01/08/26 03:19	01/08/26 20:49	1

Lab Sample ID: LCS 380-196349/23-A
Matrix: Water
Analysis Batch: 196500

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 196349

<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>Limits</i>
	<i>Added</i>	<i>Result</i>	<i>Qualifier</i>				<i>Limits</i>	
Hexafluoropropylene Oxide	25.1	23.4		ng/L		93	70 - 130	
Dimer Acid (HFPO-DA/GenX)								
Perfluorooctanesulfonic acid (PFOS)	25.1	25.1		ng/L		100	70 - 130	
Perfluoroundecanoic acid (PFUnA)	25.1	23.5		ng/L		94	70 - 130	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	25.1	23.1		ng/L		92	70 - 130	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	25.1	24.6		ng/L		98	70 - 130	
Perfluorohexanoic acid (PFHxA)	25.1	23.9		ng/L		95	70 - 130	
Perfluorododecanoic acid (PFDoA)	25.1	24.5		ng/L		98	70 - 130	
Perfluorooctanoic acid (PFOA)	25.1	25.6		ng/L		102	70 - 130	
Perfluorodecanoic acid (PFDA)	25.1	26.0		ng/L		104	70 - 130	
Perfluorohexanesulfonic acid (PFHxS)	25.1	24.5		ng/L		98	70 - 130	
Perfluorobutanesulfonic acid (PFBS)	25.1	24.8		ng/L		99	70 - 130	
Perfluoroheptanoic acid (PFHpA)	25.1	25.6		ng/L		102	70 - 130	
Perfluorononanoic acid (PFNA)	25.1	24.5		ng/L		98	70 - 130	
Perfluorotetradecanoic acid (PFTA)	25.1	20.3		ng/L		81	70 - 130	
Perfluorotridecanoic acid (PFTrDA)	25.1	27.5		ng/L		110	70 - 130	
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	25.1	25.5		ng/L		102	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	22.8		ng/L		91	70 - 130	

<i>Surrogate</i>	<i>LCS</i>	<i>LCS</i>	<i>Limits</i>
	<i>%Recovery</i>	<i>Qualifier</i>	
d5-NEtFOSAA	92		70 - 130
13C2 PFHxA	109		70 - 130
13C2 PFDA	112		70 - 130
13C3-GenX	94		70 - 130

QC Sample Results

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

Job ID: 380-190973-1
SDG: PFAS: Aiea Gulch Wells P1/P2

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

Lab Sample ID: MRL 380-196349/22-A
Matrix: Water
Analysis Batch: 196500

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 196349

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	2.00	1.77	J	ng/L		88	50 - 150
Perfluorooctanesulfonic acid (PFOS)	2.00	2.10	J	ng/L		105	50 - 150
Perfluoroundecanoic acid (PFUnA)	2.00	1.98	J	ng/L		99	50 - 150
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.00	1.96	J	ng/L		98	50 - 150
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.00	2.04	J	ng/L		102	50 - 150
Perfluorohexanoic acid (PFHxA)	2.00	2.18	J	ng/L		109	50 - 150
Perfluorododecanoic acid (PFDoA)	2.00	2.02	J	ng/L		101	50 - 150
Perfluorooctanoic acid (PFOA)	2.00	2.12	J	ng/L		106	50 - 150
Perfluorodecanoic acid (PFDA)	2.00	2.15	J	ng/L		107	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	2.00	1.98	J	ng/L		99	50 - 150
Perfluorobutanesulfonic acid (PFBS)	2.00	2.08	J	ng/L		104	50 - 150
Perfluoroheptanoic acid (PFHpA)	2.00	2.24	J	ng/L		112	50 - 150
Perfluorononanoic acid (PFNA)	2.00	2.05	J	ng/L		102	50 - 150
Perfluorotetradecanoic acid (PFTA)	2.00	1.60	J	ng/L		80	50 - 150
Perfluorotridecanoic acid (PFTrDA)	2.00	2.34	J	ng/L		117	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	2.00	2.06	J	ng/L		103	50 - 150
11-Chloroeicosfluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.00	2.24	J	ng/L		112	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	2.00	1.81	J	ng/L		90	50 - 150

Surrogate	MRL %Recovery	MRL Qualifier	Limits
d5-NEtFOSAA	100		70 - 130
13C2 PFHxA	109		70 - 130
13C2 PFDA	111		70 - 130
13C3-GenX	98		70 - 130

Lab Sample ID: 380-191115-A-1-B MS
Matrix: Water
Analysis Batch: 196500

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 196349

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		25.2	23.6		ng/L		94	70 - 130
Perfluorooctanesulfonic acid (PFOS)	2.0		25.2	27.0		ng/L		100	70 - 130
Perfluoroundecanoic acid (PFUnA)	<2.0		25.2	24.7		ng/L		98	70 - 130
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		25.2	24.7		ng/L		98	70 - 130

Eurofins Pomona

QC Association Summary

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

Job ID: 380-190973-1
SDG: PFAS: Aiea Gulch Wells P1/P2

LCMS

Prep Batch: 196349

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-190973-1	AIEA GULCH WELLS P1	Total/NA	Water	537.1 DW	
380-190973-2	AIEA GULCH WELLS P2	Total/NA	Water	537.1 DW	
380-190973-3	FB AIEA GULCH WELLS P1	Total/NA	Water	537.1 DW	
380-190973-4	FB AIEA GULCH WELLS P2	Total/NA	Water	537.1 DW	
MBL 380-196349/21-A	Method Blank	Total/NA	Water	537.1 DW	
LCS 380-196349/23-A	Lab Control Sample	Total/NA	Water	537.1 DW	
MRL 380-196349/22-A	Lab Control Sample	Total/NA	Water	537.1 DW	
380-191115-A-1-B MS	Matrix Spike	Total/NA	Water	537.1 DW	
380-191115-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	537.1 DW	

Prep Batch: 196356

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-190973-1	AIEA GULCH WELLS P1	Total/NA	Water	533	
380-190973-2	AIEA GULCH WELLS P2	Total/NA	Water	533	
380-190973-3	FB AIEA GULCH WELLS P1	Total/NA	Water	533	
380-190973-4	FB AIEA GULCH WELLS P2	Total/NA	Water	533	
MBL 380-196356/20-A	Method Blank	Total/NA	Water	533	
LCS 380-196356/22-A	Lab Control Sample	Total/NA	Water	533	
MRL 380-196356/21-A	Lab Control Sample	Total/NA	Water	533	
380-190973-1 MS	AIEA GULCH WELLS P1	Total/NA	Water	533	
380-190973-1 MSD	AIEA GULCH WELLS P1	Total/NA	Water	533	

Analysis Batch: 196471

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-190973-1	AIEA GULCH WELLS P1	Total/NA	Water	533	196356
380-190973-2	AIEA GULCH WELLS P2	Total/NA	Water	533	196356
380-190973-3	FB AIEA GULCH WELLS P1	Total/NA	Water	533	196356
380-190973-4	FB AIEA GULCH WELLS P2	Total/NA	Water	533	196356
MBL 380-196356/20-A	Method Blank	Total/NA	Water	533	196356
LCS 380-196356/22-A	Lab Control Sample	Total/NA	Water	533	196356
MRL 380-196356/21-A	Lab Control Sample	Total/NA	Water	533	196356
380-190973-1 MS	AIEA GULCH WELLS P1	Total/NA	Water	533	196356
380-190973-1 MSD	AIEA GULCH WELLS P1	Total/NA	Water	533	196356

Analysis Batch: 196500

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-190973-1	AIEA GULCH WELLS P1	Total/NA	Water	537.1	196349
380-190973-2	AIEA GULCH WELLS P2	Total/NA	Water	537.1	196349
380-190973-3	FB AIEA GULCH WELLS P1	Total/NA	Water	537.1	196349
380-190973-4	FB AIEA GULCH WELLS P2	Total/NA	Water	537.1	196349
MBL 380-196349/21-A	Method Blank	Total/NA	Water	537.1	196349
LCS 380-196349/23-A	Lab Control Sample	Total/NA	Water	537.1	196349
MRL 380-196349/22-A	Lab Control Sample	Total/NA	Water	537.1	196349
380-191115-A-1-B MS	Matrix Spike	Total/NA	Water	537.1	196349
380-191115-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	537.1	196349

Lab Chronicle

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

Job ID: 380-190973-1
SDG: PFAS: Aiea Gulch Wells P1/P2

Client Sample ID: AIEA GULCH WELLS P1

Lab Sample ID: 380-190973-1

Date Collected: 01/05/26 09:00

Matrix: Water

Date Received: 01/07/26 09:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			196356	XTD8	EA POM	01/08/26 06:19
Total/NA	Analysis	533		1	196471	Y5FM	EA POM	01/08/26 17:19
Total/NA	Prep	537.1 DW			196349	G9MN	EA POM	01/08/26 03:19
Total/NA	Analysis	537.1		1	196500	SZ9R	EA POM	01/08/26 23:50

Client Sample ID: AIEA GULCH WELLS P2

Lab Sample ID: 380-190973-2

Date Collected: 01/05/26 09:30

Matrix: Water

Date Received: 01/07/26 09:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			196356	XTD8	EA POM	01/08/26 06:19
Total/NA	Analysis	533		1	196471	Y5FM	EA POM	01/08/26 20:18
Total/NA	Prep	537.1 DW			196349	G9MN	EA POM	01/08/26 03:19
Total/NA	Analysis	537.1		1	196500	SZ9R	EA POM	01/09/26 00:00

Client Sample ID: FB AIEA GULCH WELLS P1

Lab Sample ID: 380-190973-3

Date Collected: 01/05/26 09:00

Matrix: Water

Date Received: 01/07/26 09:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			196356	XTD8	EA POM	01/08/26 06:19
Total/NA	Analysis	533		1	196471	Y5FM	EA POM	01/08/26 20:28
Total/NA	Prep	537.1 DW			196349	G9MN	EA POM	01/08/26 03:19
Total/NA	Analysis	537.1		1	196500	SZ9R	EA POM	01/09/26 00:09

Client Sample ID: FB AIEA GULCH WELLS P2

Lab Sample ID: 380-190973-4

Date Collected: 01/05/26 09:30

Matrix: Water

Date Received: 01/07/26 09:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			196356	XTD8	EA POM	01/08/26 06:19
Total/NA	Analysis	533		1	196471	Y5FM	EA POM	01/08/26 20:37
Total/NA	Prep	537.1 DW			196349	G9MN	EA POM	01/08/26 03:19
Total/NA	Analysis	537.1		1	196500	SZ9R	EA POM	01/09/26 00:19

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: 380-190973-1
SDG: PFAS: Aiea Gulch Wells P1/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
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Method Summary

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

Job ID: 380-190973-1
SDG: PFAS: Aiea Gulch Wells P1/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: 380-190973-1
SDG: PFAS: Aiea Gulch Wells P1/P2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
380-190973-1	AIEA GULCH WELLS P1	Water	01/05/26 09:00	01/07/26 09:35	Hawaii
380-190973-2	AIEA GULCH WELLS P2	Water	01/05/26 09:30	01/07/26 09:35	Hawaii
380-190973-3	FB AIEA GULCH WELLS P1	Water	01/05/26 09:00	01/07/26 09:35	Hawaii
380-190973-4	FB AIEA GULCH WELLS P2	Water	01/05/26 09:30	01/07/26 09:35	Hawaii

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- 6
- 7
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- 17

ORIGIN ID:HIKA (808) 748-5840
BWS CHEMLAB
HONOLULU BOARD OF WATER SUPPLY
630 S. BERETANIA ST
CHEMICAL LABORATORY
HONOLULU, HI 96843
UNITED STATES US

SHIP DATE: 06JAN26
ACTWGT: 75.00 LB
CAD: 258050552/INET4535

TO
EUROFINS RECEIVING DEPARTMENT
EUROFINS DRINKING WATER TESTING
941 CORPORATE CENTER DR

BILL RECIPIENT

58HJ3/JA83/59F2

POMONA CA 91768

(626) 386-1100 REF

INV

PC:

DEPT.



WED - 07 JAN 10:30A

PRIORITY OVERNIGHT

91768

CA-US ONT

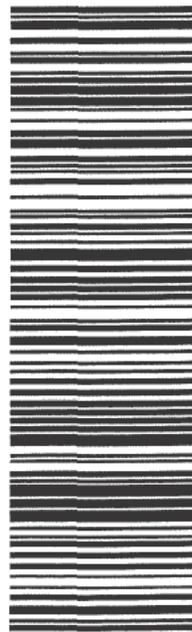
4 of 4

MPS# 8876 7443 4148

Mstr# 8876 7443 4115

WM ONTA

0263



After printing this label
1 Fold the printed page along the horizontal line
2 Place label in shipping pouch and affix it to your shipment.

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Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-190973-1
SDG Number: PFAS: Aiea Gulch Wells P1/P2

Login Number: 190973
List Number: 1
Creator: Edrosa, Rey

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

