

ANALYTICAL REPORT

PREPARED FOR

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JOB DESCRIPTION

RED-HILL

PFAS: Moanalua Wells P3/Aiea Wells P2/Aiea Gulch Wells P1/P2/ Halawa Wellls P1
RUSH Weekly Red Hill

JOB NUMBER

380-154977-1

Eurofins Eaton Analytical Pomona

Job Notes

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

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

Compliance Statement

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

Authorization



Authorized for release by
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Definitions/Glossary

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

Job ID: 380-154977-1
SDG: PFAS: Moanalua Wells P3/Aiea Wells P2/Aiea Gulch
Wells P1/P2/ Halawa Wells P1

Qualifiers

LCMS

Qualifier	Qualifier Description
B1	Analyte was found in the field reagent blank.
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: 380-154977-1

Job ID: 380-154977-1

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Job Narrative 380-154977-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 6/11/2025 9:30 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 5 coolers at receipt time were 1.9°C, 2.5°C, 3.4°C, 3.5°C and 3.9°C.

PFAS

Method 537.1_DW_PREC: The following QC issue in was observed in preparation batch 380-157752 and analytical batch 380-157857: Analyte Perfluorohexanoic acid (PFHxA) was detected greater than 1/3 MRL in the field reagent blank FB: AIEA GULCH WELLS PUMP 2 (331-202-TP072) (380-154977-9). Associated naive sample is ND for all target analytes. No impact on data.

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: 380-154977-1
SDG: PFAS: Moanalua Wells P3/Aiea Wells P2/Aiea Gulch
Wells P1/P2/ Halawa Wells P1

Client Sample ID: MOANALUA WELLS P3 (331-223-TP202)

Lab Sample ID: 380-154977-1

PWSID Number: HI0000331

☐ No Detections.

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

Lab Sample ID: 380-154977-2

(331-203-TP400)

PWSID Number: HI0000331

☐ No Detections.

Client Sample ID: AIEA GULCH WELLS PUMP 1

Lab Sample ID: 380-154977-3

(331-201-TP071)

PWSID Number: HI0000331

☐ No Detections.

Client Sample ID: AIEA GULCH WELLS PUMP 2

Lab Sample ID: 380-154977-4

(331-202-TP072)

PWSID Number: HI0000331

☐ No Detections.

Client Sample ID: HALAWA WELLS P1 (331-023-WL065)

Lab Sample ID: 380-154977-5

PWSID Number: HI0000331

☐ No Detections.

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

Lab Sample ID: 380-154977-6

PWSID Number: HI0000331

☐ No Detections.

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

Lab Sample ID: 380-154977-7

(331-203-TP400)

PWSID Number: HI0000331

☐ No Detections.

Client Sample ID: FB: AIEA GULCH WELLS PUMP 1

Lab Sample ID: 380-154977-8

(331-201-TP071)

PWSID Number: HI0000331

☐ No Detections.

Client Sample ID: FB: AIEA GULCH WELLS PUMP 2

Lab Sample ID: 380-154977-9

(331-202-TP072)

PWSID Number: HI0000331

☐ No Detections.

Client Sample ID: FB: HALAWA WELLS P1 (331-023-WL065)

Lab Sample ID: 380-154977-10

PWSID Number: HI0000331

☐ No Detections.

This Detection Summary does not include radiochemical test results.

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Client Sample Results

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

Job ID: 380-154977-1
SDG: PFAS: Moanalua Wells P3/Aiea Wells P2/Aiea Gulch
Wells P1/P2/ Halawa Wells P1

Client Sample ID: MOANALUA WELLS P3 (331-223-TP202)

Lab Sample ID: 380-154977-1

Date Collected: 06/09/25 09:20

Matrix: Drinking Water

Date Received: 06/11/25 09:30

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 (11CI-PF3OUdS)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 09:29	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9CI-PF3ONS)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 09:29	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 09:29	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 09:29	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 09:29	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 09:29	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 09:29	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 09:29	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 09:29	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 09:29	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 09:29	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 09:29	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 09:29	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 09:29	1
Perfluorobutanoic acid (PFBA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 09:29	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 09:29	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 09:29	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 09:29	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 09:29	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 09:29	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 09:29	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 09:29	1
Perfluoropentanoic acid (PFPeA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 09:29	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 09:29	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 09:29	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	99		50 - 200	06/12/25 16:30	06/13/25 09:29	1
13C6 PFDA	97		50 - 200	06/12/25 16:30	06/13/25 09:29	1
13C5 PFHxA	111		50 - 200	06/12/25 16:30	06/13/25 09:29	1
13C4 PFHpA	101		50 - 200	06/12/25 16:30	06/13/25 09:29	1
13C8 PFOA	106		50 - 200	06/12/25 16:30	06/13/25 09:29	1
13C9 PFNA	108		50 - 200	06/12/25 16:30	06/13/25 09:29	1
13C7 PFUnA	97		50 - 200	06/12/25 16:30	06/13/25 09:29	1
13C2 PFDoA	96		50 - 200	06/12/25 16:30	06/13/25 09:29	1
13C4 PFBA	105		50 - 200	06/12/25 16:30	06/13/25 09:29	1
13C5 PFPeA	113		50 - 200	06/12/25 16:30	06/13/25 09:29	1
13C3 PFBS	96		50 - 200	06/12/25 16:30	06/13/25 09:29	1
13C3 PFHxS	102		50 - 200	06/12/25 16:30	06/13/25 09:29	1

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Client Sample Results

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

Job ID: 380-154977-1
SDG: PFAS: Moanalua Wells P3/Aiea Wells P2/Aiea Gulch
Wells P1/P2/ Halawa Wells P1

Client Sample ID: MOANALUA WELLS P3 (331-223-TP202)

Lab Sample ID: 380-154977-1

Date Collected: 06/09/25 09:20

Matrix: Drinking Water

Date Received: 06/11/25 09:30

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	100		50 - 200	06/12/25 16:30	06/13/25 09:29	1
13C2-4:2-FTS	93		50 - 200	06/12/25 16:30	06/13/25 09:29	1
13C2-6:2-FTS	86		50 - 200	06/12/25 16:30	06/13/25 09:29	1
13C2-8:2-FTS	87		50 - 200	06/12/25 16:30	06/13/25 09:29	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		06/13/25 02:08	06/13/25 15:11	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 15:11	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 15:11	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 15:11	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 15:11	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 15:11	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 15:11	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 15:11	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 15:11	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 15:11	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 15:11	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 15:11	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 15:11	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 15:11	1
Perfluorotridecanoic acid (PFTrDA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 15:11	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 15:11	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 15:11	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 15:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	97		70 - 130			06/13/25 02:08	06/13/25 15:11	1
13C2 PFHxA	99		70 - 130			06/13/25 02:08	06/13/25 15:11	1
13C2 PFDA	109		70 - 130			06/13/25 02:08	06/13/25 15:11	1
13C3-GenX	96		70 - 130			06/13/25 02:08	06/13/25 15:11	1

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

Lab Sample ID: 380-154977-2

Date Collected: 06/09/25 10:40

Matrix: Drinking Water

Date Received: 06/11/25 09:30

PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:08	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:08	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:08	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-154977-1
SDG: PFAS: Moanalua Wells P3/Aiea Wells P2/Aiea Gulch
Wells P1/P2/ Halawa Wells P1

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

Lab Sample ID: 380-154977-2

Date Collected: 06/09/25 10:40
Date Received: 06/11/25 09:30

Matrix: Drinking Water
PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:08	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:08	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:08	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:08	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:08	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:08	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:08	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:08	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:08	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:08	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:08	1
Perfluorobutanoic acid (PFBA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:08	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:08	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:08	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:08	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:08	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:08	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:08	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:08	1
Perfluoropentanoic acid (PFPeA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:08	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:08	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:08	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	101		50 - 200	06/12/25 16:30	06/13/25 10:08	1
13C6 PFDA	101		50 - 200	06/12/25 16:30	06/13/25 10:08	1
13C5 PFHxA	105		50 - 200	06/12/25 16:30	06/13/25 10:08	1
13C4 PFHpA	104		50 - 200	06/12/25 16:30	06/13/25 10:08	1
13C8 PFOA	109		50 - 200	06/12/25 16:30	06/13/25 10:08	1
13C9 PFNA	107		50 - 200	06/12/25 16:30	06/13/25 10:08	1
13C7 PFUnA	101		50 - 200	06/12/25 16:30	06/13/25 10:08	1
13C2 PFDoA	99		50 - 200	06/12/25 16:30	06/13/25 10:08	1
13C4 PFBA	106		50 - 200	06/12/25 16:30	06/13/25 10:08	1
13C5 PFPeA	112		50 - 200	06/12/25 16:30	06/13/25 10:08	1
13C3 PFBS	98		50 - 200	06/12/25 16:30	06/13/25 10:08	1
13C3 PFHxS	106		50 - 200	06/12/25 16:30	06/13/25 10:08	1
13C8 PFOS	99		50 - 200	06/12/25 16:30	06/13/25 10:08	1
13C2-4:2-FTS	103		50 - 200	06/12/25 16:30	06/13/25 10:08	1
13C2-6:2-FTS	91		50 - 200	06/12/25 16:30	06/13/25 10:08	1
13C2-8:2-FTS	92		50 - 200	06/12/25 16:30	06/13/25 10:08	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-154977-1
SDG: PFAS: Moanalua Wells P3/Aiea Wells P2/Aiea Gulch
Wells P1/P2/ Halawa Wells P1

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

Lab Sample ID: 380-154977-2

Date Collected: 06/09/25 10:40
Date Received: 06/11/25 09:30

Matrix: Drinking Water
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		06/13/25 02:08	06/13/25 16:26	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 16:26	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 16:26	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 16:26	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 16:26	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 16:26	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 16:26	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 16:26	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 16:26	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 16:26	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 16:26	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 16:26	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 16:26	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 16:26	1
Perfluorotridecanoic acid (PFTTrDA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 16:26	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 16:26	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 16:26	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 16:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	103		70 - 130			06/13/25 02:08	06/13/25 16:26	1
13C2 PFHxA	103		70 - 130			06/13/25 02:08	06/13/25 16:26	1
13C2 PFDA	109		70 - 130			06/13/25 02:08	06/13/25 16:26	1
13C3-GenX	99		70 - 130			06/13/25 02:08	06/13/25 16:26	1

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

Lab Sample ID: 380-154977-3

Date Collected: 06/09/25 10:30
Date Received: 06/11/25 09:30

Matrix: Drinking Water
PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:17	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:17	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:17	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:17	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:17	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:17	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:17	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:17	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-154977-1
SDG: PFAS: Moanalua Wells P3/Aiea Wells P2/Aiea Gulch
Wells P1/P2/ Halawa Wells P1

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

Lab Sample ID: 380-154977-3

Date Collected: 06/09/25 10:30

Matrix: Drinking Water

Date Received: 06/11/25 09:30

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
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:17	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:17	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:17	1
Perfluorooctanesulfonic acid (PFOS)	2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:17	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:17	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:17	1
Perfluorobutanoic acid (PFBA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:17	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:17	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:17	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:17	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:17	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:17	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:17	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:17	1
Perfluoropentanoic acid (PFPeA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:17	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:17	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:17	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	99		50 - 200	06/12/25 16:30	06/13/25 10:17	1
13C6 PFDA	95		50 - 200	06/12/25 16:30	06/13/25 10:17	1
13C5 PFHxA	105		50 - 200	06/12/25 16:30	06/13/25 10:17	1
13C4 PFHpA	101		50 - 200	06/12/25 16:30	06/13/25 10:17	1
13C8 PFOA	107		50 - 200	06/12/25 16:30	06/13/25 10:17	1
13C9 PFNA	108		50 - 200	06/12/25 16:30	06/13/25 10:17	1
13C7 PFUnA	97		50 - 200	06/12/25 16:30	06/13/25 10:17	1
13C2 PFDoA	94		50 - 200	06/12/25 16:30	06/13/25 10:17	1
13C4 PFBA	104		50 - 200	06/12/25 16:30	06/13/25 10:17	1
13C5 PFPeA	107		50 - 200	06/12/25 16:30	06/13/25 10:17	1
13C3 PFBS	99		50 - 200	06/12/25 16:30	06/13/25 10:17	1
13C3 PFHxS	102		50 - 200	06/12/25 16:30	06/13/25 10:17	1
13C8 PFOS	98		50 - 200	06/12/25 16:30	06/13/25 10:17	1
13C2-4:2-FTS	101		50 - 200	06/12/25 16:30	06/13/25 10:17	1
13C2-6:2-FTS	86		50 - 200	06/12/25 16:30	06/13/25 10:17	1
13C2-8:2-FTS	89		50 - 200	06/12/25 16:30	06/13/25 10:17	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		06/13/25 02:08	06/13/25 16:37	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 16:37	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 16:37	1

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Client Sample Results

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

Job ID: 380-154977-1
SDG: PFAS: Moanalua Wells P3/Aiea Wells P2/Aiea Gulch
Wells P1/P2/ Halawa Wells P1

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

Lab Sample ID: 380-154977-3

Date Collected: 06/09/25 10:30

Matrix: Drinking Water

Date Received: 06/11/25 09:30

PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 16:37	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 16:37	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 16:37	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 16:37	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 16:37	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 16:37	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 16:37	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 16:37	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 16:37	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 16:37	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 16:37	1
Perfluorotridecanoic acid (PFTrDA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 16:37	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 16:37	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 16:37	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 16:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	92		70 - 130			06/13/25 02:08	06/13/25 16:37	1
13C2 PFHxA	91		70 - 130			06/13/25 02:08	06/13/25 16:37	1
13C2 PFDA	98		70 - 130			06/13/25 02:08	06/13/25 16:37	1
13C3-GenX	93		70 - 130			06/13/25 02:08	06/13/25 16:37	1

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

Lab Sample ID: 380-154977-4

Date Collected: 06/09/25 10:20

Matrix: Drinking Water

Date Received: 06/11/25 09:30

PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:27	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:27	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:27	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:27	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:27	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:27	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:27	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:27	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:27	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:27	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:27	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:27	1

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Client Sample Results

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

Job ID: 380-154977-1
SDG: PFAS: Moanalua Wells P3/Aiea Wells P2/Aiea Gulch
Wells P1/P2/ Halawa Wells P1

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

Lab Sample ID: 380-154977-4

Date Collected: 06/09/25 10:20
Date Received: 06/11/25 09:30

Matrix: Drinking Water
PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:27	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:27	1
Perfluorobutanoic acid (PFBA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:27	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:27	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:27	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:27	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:27	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:27	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:27	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:27	1
Perfluoropentanoic acid (PFPeA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:27	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:27	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:27	1
Isotope Dilution	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	100		50 - 200			06/12/25 16:30	06/13/25 10:27	1
13C6 PFDA	96		50 - 200			06/12/25 16:30	06/13/25 10:27	1
13C5 PFHxA	106		50 - 200			06/12/25 16:30	06/13/25 10:27	1
13C4 PFHpA	99		50 - 200			06/12/25 16:30	06/13/25 10:27	1
13C8 PFOA	106		50 - 200			06/12/25 16:30	06/13/25 10:27	1
13C9 PFNA	107		50 - 200			06/12/25 16:30	06/13/25 10:27	1
13C7 PFUnA	102		50 - 200			06/12/25 16:30	06/13/25 10:27	1
13C2 PFDoA	95		50 - 200			06/12/25 16:30	06/13/25 10:27	1
13C4 PFBA	104		50 - 200			06/12/25 16:30	06/13/25 10:27	1
13C5 PFPeA	108		50 - 200			06/12/25 16:30	06/13/25 10:27	1
13C3 PFBS	98		50 - 200			06/12/25 16:30	06/13/25 10:27	1
13C3 PFHxS	103		50 - 200			06/12/25 16:30	06/13/25 10:27	1
13C8 PFOS	102		50 - 200			06/12/25 16:30	06/13/25 10:27	1
13C2-4:2-FTS	96		50 - 200			06/12/25 16:30	06/13/25 10:27	1
13C2-6:2-FTS	87		50 - 200			06/12/25 16:30	06/13/25 10:27	1
13C2-8:2-FTS	86		50 - 200			06/12/25 16:30	06/13/25 10:27	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		06/13/25 02:08	06/13/25 16:48	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 16:48	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 16:48	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 16:48	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 16:48	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-154977-1
SDG: PFAS: Moanalua Wells P3/Aiea Wells P2/Aiea Gulch
Wells P1/P2/ Halawa Wells P1

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

Lab Sample ID: 380-154977-4

Date Collected: 06/09/25 10:20
Date Received: 06/11/25 09:30

Matrix: Drinking Water
PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 16:48	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 16:48	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 16:48	1
Perfluorodecanoic acid (PFDA)	2.0		2.0	ng/L		06/13/25 02:08	06/13/25 16:48	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 16:48	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 16:48	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 16:48	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 16:48	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 16:48	1
Perfluorotridecanoic acid (PFTrDA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 16:48	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 16:48	1
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 16:48	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 16:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	98		70 - 130			06/13/25 02:08	06/13/25 16:48	1
13C2 PFHxA	101		70 - 130			06/13/25 02:08	06/13/25 16:48	1
13C2 PFDA	109		70 - 130			06/13/25 02:08	06/13/25 16:48	1
13C3-GenX	100		70 - 130			06/13/25 02:08	06/13/25 16:48	1

Client Sample ID: HALAWA WELLS P1 (331-023-WL065)

Lab Sample ID: 380-154977-5

Date Collected: 06/09/25 09:50
Date Received: 06/11/25 09:30

Matrix: Drinking Water
PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:37	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:37	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:37	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:37	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:37	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:37	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:37	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:37	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:37	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:37	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:37	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:37	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:37	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:37	1
Perfluorobutanoic acid (PFBA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:37	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:37	1

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Client Sample Results

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

Job ID: 380-154977-1
SDG: PFAS: Moanalua Wells P3/Aiea Wells P2/Aiea Gulch
Wells P1/P2/ Halawa Wells P1

Client Sample ID: HALAWA WELLS P1 (331-023-WL065)

Lab Sample ID: 380-154977-5

Date Collected: 06/09/25 09:50

Matrix: Drinking Water

Date Received: 06/11/25 09:30

PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:37	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:37	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:37	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:37	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:37	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:37	1
Perfluoropentanoic acid (PFPeA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:37	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:37	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:37	1
Isotope Dilution	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	98		50 - 200			06/12/25 16:30	06/13/25 10:37	1
13C6 PFDA	93		50 - 200			06/12/25 16:30	06/13/25 10:37	1
13C5 PFHxA	103		50 - 200			06/12/25 16:30	06/13/25 10:37	1
13C4 PFHpA	100		50 - 200			06/12/25 16:30	06/13/25 10:37	1
13C8 PFOA	105		50 - 200			06/12/25 16:30	06/13/25 10:37	1
13C9 PFNA	107		50 - 200			06/12/25 16:30	06/13/25 10:37	1
13C7 PFUnA	93		50 - 200			06/12/25 16:30	06/13/25 10:37	1
13C2 PFDoA	88		50 - 200			06/12/25 16:30	06/13/25 10:37	1
13C4 PFBA	105		50 - 200			06/12/25 16:30	06/13/25 10:37	1
13C5 PFPeA	109		50 - 200			06/12/25 16:30	06/13/25 10:37	1
13C3 PFBS	93		50 - 200			06/12/25 16:30	06/13/25 10:37	1
13C3 PFHxS	96		50 - 200			06/12/25 16:30	06/13/25 10:37	1
13C8 PFOS	96		50 - 200			06/12/25 16:30	06/13/25 10:37	1
13C2-4:2-FTS	95		50 - 200			06/12/25 16:30	06/13/25 10:37	1
13C2-6:2-FTS	85		50 - 200			06/12/25 16:30	06/13/25 10:37	1
13C2-8:2-FTS	83		50 - 200			06/12/25 16:30	06/13/25 10:37	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		06/13/25 02:08	06/13/25 16:58	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 16:58	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 16:58	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 16:58	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 16:58	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 16:58	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 16:58	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 16:58	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 16:58	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 16:58	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 16:58	1

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Client Sample Results

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

Job ID: 380-154977-1
SDG: PFAS: Moanalua Wells P3/Aiea Wells P2/Aiea Gulch
Wells P1/P2/ Halawa Wells P1

Client Sample ID: HALAWA WELLS P1 (331-023-WL065)

Lab Sample ID: 380-154977-5

Date Collected: 06/09/25 09:50

Matrix: Drinking Water

Date Received: 06/11/25 09:30

PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 16:58	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 16:58	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 16:58	1
Perfluorotridecanoic acid (PFTrDA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 16:58	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 16:58	1
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 16:58	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 16:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	99		70 - 130			06/13/25 02:08	06/13/25 16:58	1
13C2 PFHxA	102		70 - 130			06/13/25 02:08	06/13/25 16:58	1
13C2 PFDA	105		70 - 130			06/13/25 02:08	06/13/25 16:58	1
13C3-GenX	100		70 - 130			06/13/25 02:08	06/13/25 16:58	1

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

Lab Sample ID: 380-154977-6

Date Collected: 06/09/25 09:20

Matrix: Water

Date Received: 06/11/25 09:30

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		06/12/25 16:30	06/13/25 10:46	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:46	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:46	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:46	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:46	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:46	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:46	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:46	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:46	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:46	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:46	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:46	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:46	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:46	1
Perfluorobutanoic acid (PFBA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:46	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:46	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:46	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:46	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:46	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:46	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-154977-1
SDG: PFAS: Moanalua Wells P3/Aiea Wells P2/Aiea Gulch
Wells P1/P2/ Halawa Wells P1

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

Lab Sample ID: 380-154977-6

Date Collected: 06/09/25 09:20

Matrix: Water

Date Received: 06/11/25 09:30

PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:46	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:46	1
Perfluoropentanoic acid (PFPeA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:46	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:46	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:46	1
Isotope Dilution	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	99		50 - 200			06/12/25 16:30	06/13/25 10:46	1
13C6 PFDA	97		50 - 200			06/12/25 16:30	06/13/25 10:46	1
13C5 PFHxA	102		50 - 200			06/12/25 16:30	06/13/25 10:46	1
13C4 PFHpA	99		50 - 200			06/12/25 16:30	06/13/25 10:46	1
13C8 PFOA	107		50 - 200			06/12/25 16:30	06/13/25 10:46	1
13C9 PFNA	105		50 - 200			06/12/25 16:30	06/13/25 10:46	1
13C7 PFUnA	97		50 - 200			06/12/25 16:30	06/13/25 10:46	1
13C2 PFDoA	98		50 - 200			06/12/25 16:30	06/13/25 10:46	1
13C4 PFBA	104		50 - 200			06/12/25 16:30	06/13/25 10:46	1
13C5 PFPeA	109		50 - 200			06/12/25 16:30	06/13/25 10:46	1
13C3 PFBS	93		50 - 200			06/12/25 16:30	06/13/25 10:46	1
13C3 PFHxS	98		50 - 200			06/12/25 16:30	06/13/25 10:46	1
13C8 PFOS	96		50 - 200			06/12/25 16:30	06/13/25 10:46	1
13C2-4:2-FTS	94		50 - 200			06/12/25 16:30	06/13/25 10:46	1
13C2-6:2-FTS	83		50 - 200			06/12/25 16:30	06/13/25 10:46	1
13C2-8:2-FTS	87		50 - 200			06/12/25 16:30	06/13/25 10:46	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		06/13/25 02:08	06/13/25 17:09	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 17:09	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 17:09	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 17:09	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 17:09	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 17:09	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 17:09	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 17:09	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 17:09	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 17:09	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 17:09	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 17:09	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 17:09	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 17:09	1
Perfluorotridecanoic acid (PFTrDA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 17:09	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 17:09	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 17:09	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-154977-1
SDG: PFAS: Moanalua Wells P3/Aiea Wells P2/Aiea Gulch
Wells P1/P2/ Halawa Wells P1

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

Lab Sample ID: 380-154977-6

Date Collected: 06/09/25 09:20

Matrix: Water

Date Received: 06/11/25 09:30

PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 17:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	96		70 - 130			06/13/25 02:08	06/13/25 17:09	1
13C2 PFHxA	102		70 - 130			06/13/25 02:08	06/13/25 17:09	1
13C2 PFDA	107		70 - 130			06/13/25 02:08	06/13/25 17:09	1
13C3-GenX	95		70 - 130			06/13/25 02:08	06/13/25 17:09	1

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

Lab Sample ID: 380-154977-7

Date Collected: 06/09/25 10:40

Matrix: Water

Date Received: 06/11/25 09:30

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	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:56	1
e-1-sulfonic acid (11Cl-PF3OUdS)								
9-Chlorohexadecafluoro-3-oxanonan	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:56	1
e-1-sulfonic acid(9Cl-PF3ONS)								
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:56	1
Hexafluoropropylene Oxide Dimer	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:56	1
Acid (HFPO-DA/GenX)								
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:56	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:56	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:56	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:56	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:56	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:56	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:56	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:56	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:56	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:56	1
Perfluorobutanoic acid (PFBA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:56	1
1H,1H,2H,2H-Perfluorodecane	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:56	1
sulfonic acid (8:2 FTS)								
1H,1H,2H,2H-Perfluorohexane	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:56	1
sulfonic acid (4:2 FTS)								
1H,1H,2H,2H-Perfluorooctane sulfonic	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:56	1
acid (6:2 FTS)								
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:56	1
Perfluoro (2-ethoxyethane) sulfonic	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:56	1
acid (PFEESA)								
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:56	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:56	1
Perfluoropentanoic acid (PFPeA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:56	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:56	1

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Client Sample Results

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

Job ID: 380-154977-1
SDG: PFAS: Moanalua Wells P3/Aiea Wells P2/Aiea Gulch
Wells P1/P2/ Halawa Wells P1

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

Lab Sample ID: 380-154977-7

Date Collected: 06/09/25 10:40
Date Received: 06/11/25 09:30

Matrix: Water
PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 10:56	1
Isotope Dilution	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	98		50 - 200			06/12/25 16:30	06/13/25 10:56	1
13C6 PFDA	97		50 - 200			06/12/25 16:30	06/13/25 10:56	1
13C5 PFHxA	108		50 - 200			06/12/25 16:30	06/13/25 10:56	1
13C4 PFHpA	99		50 - 200			06/12/25 16:30	06/13/25 10:56	1
13C8 PFOA	108		50 - 200			06/12/25 16:30	06/13/25 10:56	1
13C9 PFNA	109		50 - 200			06/12/25 16:30	06/13/25 10:56	1
13C7 PFUnA	100		50 - 200			06/12/25 16:30	06/13/25 10:56	1
13C2 PFDoA	95		50 - 200			06/12/25 16:30	06/13/25 10:56	1
13C4 PFBA	107		50 - 200			06/12/25 16:30	06/13/25 10:56	1
13C5 PFPeA	112		50 - 200			06/12/25 16:30	06/13/25 10:56	1
13C3 PFBS	99		50 - 200			06/12/25 16:30	06/13/25 10:56	1
13C3 PFHxS	103		50 - 200			06/12/25 16:30	06/13/25 10:56	1
13C8 PFOS	100		50 - 200			06/12/25 16:30	06/13/25 10:56	1
13C2-4:2-FTS	99		50 - 200			06/12/25 16:30	06/13/25 10:56	1
13C2-6:2-FTS	90		50 - 200			06/12/25 16:30	06/13/25 10:56	1
13C2-8:2-FTS	90		50 - 200			06/12/25 16:30	06/13/25 10:56	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		06/13/25 02:08	06/13/25 17:31	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 17:31	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 17:31	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 17:31	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 17:31	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 17:31	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 17:31	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 17:31	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 17:31	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 17:31	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 17:31	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 17:31	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 17:31	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 17:31	1
Perfluorotridecanoic acid (PFTrDA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 17:31	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 17:31	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUS)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 17:31	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 17:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	95		70 - 130			06/13/25 02:08	06/13/25 17:31	1

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Client Sample Results

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

Job ID: 380-154977-1
SDG: PFAS: Moanalua Wells P3/Aiea Wells P2/Aiea Gulch
Wells P1/P2/ Halawa Wells P1

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

Lab Sample ID: 380-154977-7

Date Collected: 06/09/25 10:40
Date Received: 06/11/25 09:30

Matrix: Water
PWSID Number: HI0000331

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	103		70 - 130	06/13/25 02:08	06/13/25 17:31	1
13C2 PFDA	112		70 - 130	06/13/25 02:08	06/13/25 17:31	1
13C3-GenX	102		70 - 130	06/13/25 02:08	06/13/25 17:31	1

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

Lab Sample ID: 380-154977-8

Date Collected: 06/09/25 10:30
Date Received: 06/11/25 09:30

Matrix: Water
PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 11:06	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 11:06	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 11:06	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 11:06	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 11:06	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 11:06	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 11:06	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 11:06	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 11:06	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 11:06	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 11:06	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 11:06	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 11:06	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 11:06	1
Perfluorobutanoic acid (PFBA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 11:06	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 11:06	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 11:06	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 11:06	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 11:06	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 11:06	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 11:06	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 11:06	1
Perfluoropentanoic acid (PFPeA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 11:06	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 11:06	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 11:06	1

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Client Sample Results

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

Job ID: 380-154977-1
SDG: PFAS: Moanalua Wells P3/Aiea Wells P2/Aiea Gulch
Wells P1/P2/ Halawa Wells P1

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

Lab Sample ID: 380-154977-8

Date Collected: 06/09/25 10:30

Matrix: Water

Date Received: 06/11/25 09:30

PWSID Number: HI0000331

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	100		50 - 200	06/12/25 16:30	06/13/25 11:06	1
13C6 PFDA	98		50 - 200	06/12/25 16:30	06/13/25 11:06	1
13C5 PFHxA	107		50 - 200	06/12/25 16:30	06/13/25 11:06	1
13C4 PFHpA	103		50 - 200	06/12/25 16:30	06/13/25 11:06	1
13C8 PFOA	108		50 - 200	06/12/25 16 30	06/13/25 11 06	1
13C9 PFNA	111		50 - 200	06/12/25 16:30	06/13/25 11:06	1
13C7 PFUnA	104		50 - 200	06/12/25 16:30	06/13/25 11:06	1
13C2 PFDoA	97		50 - 200	06/12/25 16:30	06/13/25 11:06	1
13C4 PFBA	104		50 - 200	06/12/25 16:30	06/13/25 11:06	1
13C5 PFPeA	110		50 - 200	06/12/25 16:30	06/13/25 11:06	1
13C3 PFBS	95		50 - 200	06/12/25 16:30	06/13/25 11:06	1
13C3 PFHxS	101		50 - 200	06/12/25 16:30	06/13/25 11:06	1
13C8 PFOS	99		50 - 200	06/12/25 16:30	06/13/25 11:06	1
13C2-4:2-FTS	96		50 - 200	06/12/25 16:30	06/13/25 11:06	1
13C2-6:2-FTS	83		50 - 200	06/12/25 16:30	06/13/25 11:06	1
13C2-8:2-FTS	88		50 - 200	06/12/25 16:30	06/13/25 11:06	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 17:41	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 17:41	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 17:41	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 17:41	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 17:41	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 17:41	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 17:41	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 17:41	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 17:41	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 17:41	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 17:41	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 17:41	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 17:41	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 17:41	1
Perfluorotridecanoic acid (PFTrDA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 17:41	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 17:41	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 17:41	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 17:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	95		70 - 130			06/13/25 02:08	06/13/25 17:41	1
13C2 PFHxA	97		70 - 130			06/13/25 02:08	06/13/25 17:41	1
13C2 PFDA	105		70 - 130			06/13/25 02:08	06/13/25 17:41	1
13C3-GenX	95		70 - 130			06/13/25 02:08	06/13/25 17:41	1

Eurofins Eaton Analytical Pomona

Client Sample Results

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

Job ID: 380-154977-1
SDG: PFAS: Moanalua Wells P3/Aiea Wells P2/Aiea Gulch
Wells P1/P2/ Halawa Wells P1

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

Lab Sample ID: 380-154977-9

Date Collected: 06/09/25 10:20

Matrix: Water

Date Received: 06/11/25 09:30

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		06/12/25 16:30	06/13/25 11:15	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 11:15	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 11:15	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 11:15	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 11:15	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 11:15	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 11:15	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 11:15	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 11:15	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 11:15	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 11:15	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 11:15	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 11:15	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 11:15	1
Perfluorobutanoic acid (PFBA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 11:15	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 11:15	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 11:15	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 11:15	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 11:15	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 11:15	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 11:15	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 11:15	1
Perfluoropentanoic acid (PFPeA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 11:15	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 11:15	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 11:15	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	99		50 - 200	06/12/25 16:30	06/13/25 11:15	1
13C6 PFDA	102		50 - 200	06/12/25 16:30	06/13/25 11:15	1
13C5 PFHxA	108		50 - 200	06/12/25 16:30	06/13/25 11:15	1
13C4 PFHpA	104		50 - 200	06/12/25 16:30	06/13/25 11:15	1
13C8 PFOA	110		50 - 200	06/12/25 16:30	06/13/25 11:15	1
13C9 PFNA	111		50 - 200	06/12/25 16:30	06/13/25 11:15	1
13C7 PFUnA	104		50 - 200	06/12/25 16:30	06/13/25 11:15	1
13C2 PFDoA	101		50 - 200	06/12/25 16:30	06/13/25 11:15	1
13C4 PFBA	107		50 - 200	06/12/25 16:30	06/13/25 11:15	1
13C5 PFPeA	107		50 - 200	06/12/25 16:30	06/13/25 11:15	1
13C3 PFBS	98		50 - 200	06/12/25 16:30	06/13/25 11:15	1

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Client Sample Results

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

Job ID: 380-154977-1
SDG: PFAS: Moanalua Wells P3/Aiea Wells P2/Aiea Gulch
Wells P1/P2/ Halawa Wells P1

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

Lab Sample ID: 380-154977-9

Date Collected: 06/09/25 10:20
Date Received: 06/11/25 09:30

Matrix: Water
PWSID Number: HI0000331

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 PFHxS	100		50 - 200	06/12/25 16:30	06/13/25 11:15	1
13C8 PFOS	101		50 - 200	06/12/25 16:30	06/13/25 11:15	1
13C2-4:2-FTS	94		50 - 200	06/12/25 16:30	06/13/25 11:15	1
13C2 6 2 FTS	88		50 - 200	06/12/25 16 30	06/13/25 11 15	1
13C2-8:2-FTS	90		50 - 200	06/12/25 16:30	06/13/25 11:15	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 17:52	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 17:52	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 17:52	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 17:52	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 17:52	1
Perfluorohexanoic acid (PFHxA)	<2.0	B1	2.0	ng/L		06/13/25 02:08	06/13/25 17:52	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 17:52	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 17:52	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 17:52	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 17:52	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 17:52	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 17:52	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 17:52	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 17:52	1
Perfluorotridecanoic acid (PFTrDA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 17:52	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 17:52	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 17:52	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 17:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	96		70 - 130	06/13/25 02:08	06/13/25 17:52	1
13C2 PFHxA	98		70 - 130	06/13/25 02:08	06/13/25 17:52	1
13C2 PFDA	104		70 - 130	06/13/25 02:08	06/13/25 17:52	1
13C3-GenX	98		70 - 130	06/13/25 02:08	06/13/25 17:52	1

Client Sample ID: FB: HALAWA WELLS P1 (331-023-WL065)

Lab Sample ID: 380-154977-10

Date Collected: 06/09/25 09:50
Date Received: 06/11/25 09:30

Matrix: Water
PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 11:36	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 11:36	1

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Client Sample Results

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

Job ID: 380-154977-1
SDG: PFAS: Moanalua Wells P3/Aiea Wells P2/Aiea Gulch
Wells P1/P2/ Halawa Wells P1

Client Sample ID: FB: HALAWA WELLS P1 (331-023-WL065)

Lab Sample ID: 380-154977-10

Date Collected: 06/09/25 09:50

Matrix: Water

Date Received: 06/11/25 09:30

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
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 11:36	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 11:36	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 11:36	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 11:36	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 11:36	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 11:36	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 11:36	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 11:36	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 11:36	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 11:36	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 11:36	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 11:36	1
Perfluorobutanoic acid (PFBA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 11:36	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 11:36	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 11:36	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 11:36	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 11:36	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 11:36	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 11:36	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 11:36	1
Perfluoropentanoic acid (PFPeA)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 11:36	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 11:36	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		06/12/25 16:30	06/13/25 11:36	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	100		50 - 200	06/12/25 16:30	06/13/25 11:36	1
13C6 PFDA	100		50 - 200	06/12/25 16:30	06/13/25 11:36	1
13C5 PFHxA	106		50 - 200	06/12/25 16:30	06/13/25 11:36	1
13C4 PFHpA	102		50 - 200	06/12/25 16:30	06/13/25 11:36	1
13C8 PFOA	104		50 - 200	06/12/25 16:30	06/13/25 11:36	1
13C9 PFNA	106		50 - 200	06/12/25 16:30	06/13/25 11:36	1
13C7 PFUnA	100		50 - 200	06/12/25 16:30	06/13/25 11:36	1
13C2 PFDoA	98		50 - 200	06/12/25 16:30	06/13/25 11:36	1
13C4 PFBA	105		50 - 200	06/12/25 16:30	06/13/25 11:36	1
13C5 PFPeA	110		50 - 200	06/12/25 16:30	06/13/25 11:36	1
13C3 PFBS	98		50 - 200	06/12/25 16:30	06/13/25 11:36	1
13C3 PFHxS	103		50 - 200	06/12/25 16:30	06/13/25 11:36	1
13C8 PFOS	100		50 - 200	06/12/25 16:30	06/13/25 11:36	1
13C2-4:2-FTS	100		50 - 200	06/12/25 16:30	06/13/25 11:36	1
13C2-6:2-FTS	91		50 - 200	06/12/25 16:30	06/13/25 11:36	1
13C2-8:2-FTS	91		50 - 200	06/12/25 16:30	06/13/25 11:36	1

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Client Sample Results

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

Job ID: 380-154977-1
SDG: PFAS: Moanalua Wells P3/Aiea Wells P2/Aiea Gulch
Wells P1/P2/ Halawa Wells P1

Client Sample ID: FB: HALAWA WELLS P1 (331-023-WL065)

Lab Sample ID: 380-154977-10

Date Collected: 06/09/25 09:50

Matrix: Water

Date Received: 06/11/25 09:30

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		06/13/25 02:08	06/13/25 18:03	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 18:03	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 18:03	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 18:03	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 18:03	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 18:03	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 18:03	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 18:03	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 18:03	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 18:03	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 18:03	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 18:03	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 18:03	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 18:03	1
Perfluorotridecanoic acid (PFTrDA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 18:03	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 18:03	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 18:03	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		06/13/25 02:08	06/13/25 18:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	98		70 - 130	06/13/25 02:08	06/13/25 18:03	1
13C2 PFHxA	91		70 - 130	06/13/25 02:08	06/13/25 18:03	1
13C2 PFDA	102		70 - 130	06/13/25 02:08	06/13/25 18:03	1
13C3-GenX	92		70 - 130	06/13/25 02:08	06/13/25 18:03	1

Action Limit Summary

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

Job ID: 380-154977-1
SDG: PFAS: Moanalua Wells P3/Aiea Wells P2/Aiea Gulch
Wells P1/P2/ Halawa Wells P1

Client Sample ID: MOANALUA WELLS P3 (331-223-TP202)

Lab Sample ID: 380-154977-1

PWSID Number: HI0000331

Compliance Check

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

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

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

Lab Sample ID: 380-154977-2

(331-203-TP400)

PWSID Number: HI0000331

Compliance Check

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

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

Client Sample ID: AIEA GULCH WELLS PUMP 1

Lab Sample ID: 380-154977-3

(331-201-TP071)

PWSID Number: HI0000331

Compliance Check

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

Analyte	Result	Qualifier	Unit	EPAMCL Limit	RL	Method	Prep Type
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		ng/L	10	2.0	533	Total/NA

Eurofins Eaton Analytical Pomona

Action Limit Summary

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

Job ID: 380-154977-1
SDG: PFAS: Moanalua Wells P3/Aiea Wells P2/Aiea Gulch
Wells P1/P2/ Halawa Wells P1

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

Lab Sample ID: 380-154977-3

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

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

Lab Sample ID: 380-154977-4

Compliance Check

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

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

Client Sample ID: HALAWA WELLS P1 (331-023-WL065)
PWSID Number: HI0000331

Lab Sample ID: 380-154977-5

Compliance Check

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

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

Eurofins Eaton Analytical Pomona

Action Limit Summary

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

Job ID: 380-154977-1
SDG: PFAS: Moanalua Wells P3/Aiea Wells P2/Aiea Gulch
Wells P1/P2/ Halawa Wells P1

Client Sample ID: HALAWA WELLS P1 (331-023-WL065)

Lab Sample ID: 380-154977-5

(Continued)

PWSID Number: HI0000331

Compliance Check

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

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

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

Lab Sample ID: 380-154977-6

PWSID Number: HI0000331

Compliance Check

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

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

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

Lab Sample ID: 380-154977-7

(331-203-TP400)

PWSID Number: HI0000331

Compliance Check

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

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

Eurofins Eaton Analytical Pomona

Action Limit Summary

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

Job ID: 380-154977-1
SDG: PFAS: Moanalua Wells P3/Aiea Wells P2/Aiea Gulch
Wells P1/P2/ Halawa Wells P1

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

Lab Sample ID: 380-154977-7

Compliance Check

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

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

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

Lab Sample ID: 380-154977-8

Compliance Check

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

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

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

Lab Sample ID: 380-154977-9

Compliance Check

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

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

Eurofins Eaton Analytical Pomona

Action Limit Summary

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

Job ID: 380-154977-1
SDG: PFAS: Moanalua Wells P3/Aiea Wells P2/Aiea Gulch
Wells P1/P2/ Halawa Wells P1

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

Lab Sample ID: 380-154977-9

Compliance Check

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

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

Client Sample ID: FB: HALAWA WELLS P1 (331-023-WL065)
PWSID Number: HI0000331

Lab Sample ID: 380-154977-10

Compliance Check

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

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

Surrogate Summary

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

Job ID: 380-154977-1
SDG: PFAS: Moanalua Wells P3/Aiea Wells P2/Aiea Gulch
Wells P1/P2/ Halawa Wells P1

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)
380-154977-1	MOANALUA WELLS P3 (331-223-TP202)	97	99	109	96
380-154977-1 MS	MOANALUA WELLS P3 (331-223-TP202)	101	99	105	102
380-154977-1 MSD	MOANALUA WELLS P3 (331-223-TP202)	93	104	105	97
380-154977-2	AIEA WELLS PUMPS 1&2 P2 (260) (331-203-TP400)	103	103	109	99
380-154977-3	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	92	91	98	93
380-154977-4	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	98	101	109	100
380-154977-5	HALAWA WELLS P1 (331-023-WL065)	99	102	105	100
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)
380-154977-6	FB: MOANALUA WELLS (331-223-TP202)	96	102	107	95
380-154977-7	FB: AIEA WELLS PUMPS 1&2 (260) (331-203-TP400)	95	103	112	102
380-154977-8	FB: AIEA GULCH WELLS PUMP 1 (331 201 TP071)	95	97	105	95
380-154977-9	FB: AIEA GULCH WELLS PUMP 2 (331-202-TP072)	96	98	104	98
380-154977-10	FB: HALAWA WELLS P1 (331-023-WL065)	98	91	102	92
LCS 380-157752/22-A	Lab Control Sample	89	91	102	89
MBL 380-157752/20-A	Method Blank	95	98	103	95
MRL 380-157752/21-A	Lab Control Sample	98	98	103	99
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: 380-154977-1
SDG: PFAS: Moanalua Wells P3/Aiea Wells P2/Aiea Gulch
Wells P1/P2/ Halawa Wells P1

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

Matrix: Drinking Water

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	HFPODA (50-200)	C6PFDA (50-200)	13C5PHA (50-200)	C4PFHA (50-200)	C8PFOA (50-200)	C9PFNA (50-200)	13C7PUA (50-200)	PFDaA (50-200)
380-154977-1	MOANALUA WELLS P3 (331-223-TP202)	99	97	111	101	106	108	97	96
380-154977-1 MS	MOANALUA WELLS P3 (331-223-TP202)	101	96	102	99	104	105	100	93
380-154977-1 MSD	MOANALUA WELLS P3 (331-223-TP202)	103	98	101	97	106	107	99	91
380-154977-2	AIEA WELLS PUMPS 1&2 P2 (260) (331-203-TP400)	101	101	105	104	109	107	101	99
380-154977-3	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	99	95	105	101	107	108	97	94
380-154977-4	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	100	96	106	99	106	107	102	95
380-154977-5	HALAWA WELLS P1 (331-023-WL065)	98	93	103	100	105	107	93	88

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)
380-154977-1	MOANALUA WELLS P3 (331-223-TP202)	105	113	96	102	100	93	86	87
380-154977-1 MS	MOANALUA WELLS P3 (331-223-TP202)	101	107	97	99	96	92	85	87
380-154977-1 MSD	MOANALUA WELLS P3 (331-223-TP202)	103	109	99	100	98	101	90	90
380-154977-2	AIEA WELLS PUMPS 1&2 P2 (260) (331-203-TP400)	106	112	98	106	99	103	91	92
380-154977-3	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	104	107	99	102	98	101	86	89
380-154977-4	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	104	108	98	103	102	96	87	86
380-154977-5	HALAWA WELLS P1 (331-023-WL065)	105	109	93	96	96	95	85	83

Surrogate Legend

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

Isotope Dilution Summary

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

Job ID: 380-154977-1
SDG: PFAS: Moanalua Wells P3/Aiea Wells P2/Aiea Gulch
Wells P1/P2/ Halawa Wells P1

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

Matrix: Water

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	HFPODA (50-200)	C6PFDA (50-200)	13C5PHA (50-200)	C4PFHA (50-200)	C8PFOA (50-200)	C9PFNA (50-200)	13C7PUA (50-200)	PFDaA (50-200)
380-154977-6	FB: MOANALUA WELLS (331-2	99	97	102	99	107	105	97	98
380-154977-7	FB: AIEA WELLS PUMPS 1&2 (260) (331-203-TP400)	98	97	108	99	108	109	100	95
380-154977-8	FB: AIEA GULCH WELLS PUMF 1 (331-201-TP071)	100	98	107	103	108	111	104	97
380-154977-9	FB: AIEA GULCH WELLS PUMF 2 (331-202-TP072)	99	102	108	104	110	111	104	101
380-154977-10	FB: HALAWA WELLS P1 (331-023-WL065)	100	100	106	102	104	106	100	98
LCS 380-157634/14-A	Lab Control Sample	104	96	107	102	105	108	99	94
MBL 380-157634/12-A	Method Blank	99	96	107	102	111	106	96	96
MRL 380-157634/13-A	Lab Control Sample	99	96	102	99	108	105	95	94

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)
380-154977-6	FB: MOANALUA WELLS (331-2	104	109	93	98	96	94	83	87
380-154977-7	FB: AIEA WELLS PUMPS 1&2 (260) (331-203-TP400)	107	112	99	103	100	99	90	90
380-154977-8	FB: AIEA GULCH WELLS PUMF 1 (331-201-TP071)	104	110	95	101	99	96	83	88
380-154977-9	FB: AIEA GULCH WELLS PUMF 2 (331-202-TP072)	107	107	98	100	101	94	88	90
380-154977-10	FB: HALAWA WELLS P1 (331-023-WL065)	105	110	98	103	100	100	91	91
LCS 380-157634/14-A	Lab Control Sample	103	107	94	101	96	90	84	84
MBL 380-157634/12-A	Method Blank	109	113	100	103	101	102	95	85
MRL 380-157634/13-A	Lab Control Sample	103	110	97	102	99	96	90	89

Surrogate Legend

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

QC Sample Results

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

Job ID: 380-154977-1
SDG: PFAS: Moanalua Wells P3/Aiea Wells P2/Aiea Gulch
Wells P1/P2/ Halawa Wells P1

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

Lab Sample ID: MBL 380-157634/12-A

Matrix: Water

Analysis Batch: 157759

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 157634

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS)	<0.30		2.0	ng/L		06/12/25 16:30	06/13/25 08:59	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS)	<0.30		2.0	ng/L		06/12/25 16:30	06/13/25 08:59	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.60		2.0	ng/L		06/12/25 16:30	06/13/25 08:59	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<1.0		2.0	ng/L		06/12/25 16:30	06/13/25 08:59	1
Perfluorobutanesulfonic acid (PFBS)	<0.37		2.0	ng/L		06/12/25 16:30	06/13/25 08:59	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	ng/L		06/12/25 16:30	06/13/25 08:59	1
Perfluorododecanoic acid (PFDoA)	<0.54		2.0	ng/L		06/12/25 16:30	06/13/25 08:59	1
Perfluoroheptanoic acid (PFHpA)	<0.39		2.0	ng/L		06/12/25 16:30	06/13/25 08:59	1
Perfluorohexanesulfonic acid (PFHxS)	<0.32		2.0	ng/L		06/12/25 16:30	06/13/25 08:59	1
Perfluorohexanoic acid (PFHxA)	<0.46		2.0	ng/L		06/12/25 16:30	06/13/25 08:59	1
Perfluorononanoic acid (PFNA)	<0.40		2.0	ng/L		06/12/25 16:30	06/13/25 08:59	1
Perfluorooctanesulfonic acid (PFOS)	<0.43		2.0	ng/L		06/12/25 16:30	06/13/25 08:59	1
Perfluorooctanoic acid (PFOA)	<0.38		2.0	ng/L		06/12/25 16:30	06/13/25 08:59	1
Perfluoroundecanoic acid (PFUnA)	<0.42		2.0	ng/L		06/12/25 16:30	06/13/25 08:59	1
Perfluorobutanoic acid (PFBA)	<0.69		2.0	ng/L		06/12/25 16:30	06/13/25 08:59	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<0.38		2.0	ng/L		06/12/25 16:30	06/13/25 08:59	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<0.37		2.0	ng/L		06/12/25 16:30	06/13/25 08:59	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<0.48		2.0	ng/L		06/12/25 16:30	06/13/25 08:59	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.47		2.0	ng/L		06/12/25 16:30	06/13/25 08:59	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<0.25		2.0	ng/L		06/12/25 16:30	06/13/25 08:59	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.46		2.0	ng/L		06/12/25 16:30	06/13/25 08:59	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.15		2.0	ng/L		06/12/25 16:30	06/13/25 08:59	1
Perfluoropentanoic acid (PFPeA)	<0.38		2.0	ng/L		06/12/25 16:30	06/13/25 08:59	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.36		2.0	ng/L		06/12/25 16:30	06/13/25 08:59	1
Perfluoropentanesulfonic acid (PFPeS)	<0.39		2.0	ng/L		06/12/25 16:30	06/13/25 08:59	1

Isotope Dilution	MBL %Recovery	MBL Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	99		50 - 200	06/12/25 16:30	06/13/25 08:59	1
13C6 PFDA	96		50 - 200	06/12/25 16:30	06/13/25 08:59	1
13C5 PFHxA	107		50 - 200	06/12/25 16:30	06/13/25 08:59	1
13C4 PFHpA	102		50 - 200	06/12/25 16:30	06/13/25 08:59	1
13C8 PFOA	111		50 - 200	06/12/25 16:30	06/13/25 08:59	1
13C9 PFNA	106		50 - 200	06/12/25 16:30	06/13/25 08:59	1
13C7 PFUnA	96		50 - 200	06/12/25 16:30	06/13/25 08:59	1
13C2 PFDoA	96		50 - 200	06/12/25 16:30	06/13/25 08:59	1
13C4 PFBA	109		50 - 200	06/12/25 16:30	06/13/25 08:59	1
13C5 PFPeA	113		50 - 200	06/12/25 16:30	06/13/25 08:59	1
13C3 PFBS	100		50 - 200	06/12/25 16:30	06/13/25 08:59	1

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-154977-1
SDG: PFAS: Moanalua Wells P3/Aiea Wells P2/Aiea Gulch
Wells P1/P2/ Halawa Wells P1

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

Lab Sample ID: MBL 380-157634/12-A

Matrix: Water

Analysis Batch: 157759

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 157634

Isotope Dilution	MBL %Recovery	MBL Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 PFHxS	103		50 - 200	06/12/25 16:30	06/13/25 08:59	1
13C8 PFOS	101		50 - 200	06/12/25 16:30	06/13/25 08:59	1
13C2-4:2-FTS	102		50 - 200	06/12/25 16:30	06/13/25 08:59	1
13C2-6:2-FTS	95		50 - 200	06/12/25 16:30	06/13/25 08:59	1
13C2-8:2-FTS	85		50 - 200	06/12/25 16:30	06/13/25 08:59	1

Lab Sample ID: LCS 380-157634/14-A

Matrix: Water

Analysis Batch: 157759

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 157634

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
11-Chloroeicosfluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	120	107		ng/L		89	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	120	117		ng/L		97	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	120	122		ng/L		102	70 - 130
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	120	116		ng/L		97	70 - 130
Perfluorobutanesulfonic acid (PFBS)	120	120		ng/L		100	70 - 130
Perfluorodecanoic acid (PFDA)	120	125		ng/L		104	70 - 130
Perfluorododecanoic acid (PFDoA)	120	121		ng/L		101	70 - 130
Perfluoroheptanoic acid (PFHpA)	120	117		ng/L		98	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	120	117		ng/L		98	70 - 130
Perfluorohexanoic acid (PFHxA)	120	106		ng/L		88	70 - 130
Perfluorononanoic acid (PFNA)	120	119		ng/L		99	70 - 130
Perfluorooctanesulfonic acid (PFOS)	120	123		ng/L		102	70 - 130
Perfluorooctanoic acid (PFOA)	120	120		ng/L		100	70 - 130
Perfluoroundecanoic acid (PFUnA)	120	122		ng/L		102	70 - 130
Perfluorobutanoic acid (PFBA)	120	120		ng/L		100	70 - 130
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	120	122		ng/L		102	70 - 130
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	120	124		ng/L		103	70 - 130
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	120	118		ng/L		98	70 - 130
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	120	108		ng/L		90	70 - 130
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	120	119		ng/L		99	70 - 130
Perfluoro 3 methoxypropanoic acid (PFMPA)	120	122		ng/L		102	70 - 130
Perfluoro-4-methoxybutanoic acid (PFMBA)	120	124		ng/L		103	70 - 130
Perfluoropentanoic acid (PFPeA)	120	121		ng/L		101	70 - 130

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-154977-1
SDG: PFAS: Moanalua Wells P3/Aiea Wells P2/Aiea Gulch
Wells P1/P2/ Halawa Wells P1

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

Lab Sample ID: LCS 380-157634/14-A

Matrix: Water

Analysis Batch: 157759

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 157634

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoroheptanesulfonic acid (PFHpS)	120	124		ng/L		103	70 - 130
Perfluoropentanesulfonic acid (PFPeS)	120	115		ng/L		96	70 - 130
Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits				
13C3 HFPO-DA	104		50 - 200				
13C6 PFDA	96		50 - 200				
13C5 PFHxA	107		50 - 200				
13C4 PFHpA	102		50 - 200				
13C8 PFOA	105		50 - 200				
13C9 PFNA	108		50 - 200				
13C7 PFUnA	99		50 - 200				
13C2 PFDoA	94		50 - 200				
13C4 PFBA	103		50 - 200				
13C5 PFPeA	107		50 - 200				
13C3 PFBS	94		50 - 200				
13C3 PFHxS	101		50 - 200				
13C8 PFOS	96		50 - 200				
13C2-4:2-FTS	90		50 - 200				
13C2-6:2-FTS	84		50 - 200				
13C2-8:2-FTS	84		50 - 200				

Lab Sample ID: MRL 380-157634/13-A

Matrix: Water

Analysis Batch: 157759

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 157634

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
11-Chloroeicosfluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.00	2.27	J	ng/L		113	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.00	2.28	J	ng/L		114	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	2.00	2.32	J	ng/L		116	50 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	2.00	2.14	J	ng/L		107	50 - 150
Perfluorobutanesulfonic acid (PFBS)	2.00	2.25	J	ng/L		112	50 - 150
Perfluorodecanoic acid (PFDA)	2.00	2.40	J	ng/L		120	50 - 150
Perfluorododecanoic acid (PFDoA)	2.00	2.26	J	ng/L		113	50 - 150
Perfluoroheptanoic acid (PFHpA)	2.00	2.18	J	ng/L		109	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	2.00	2.25	J	ng/L		112	50 - 150
Perfluorohexanoic acid (PFHxA)	2.00	2.09	J	ng/L		104	50 - 150
Perfluorononanoic acid (PFNA)	2.00	2.12	J	ng/L		106	50 - 150
Perfluorooctanesulfonic acid (PFOS)	2.00	2.43	J	ng/L		121	50 - 150
Perfluorooctanoic acid (PFOA)	2.00	2.25	J	ng/L		112	50 - 150

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-154977-1
SDG: PFAS: Moanalua Wells P3/Aiea Wells P2/Aiea Gulch
Wells P1/P2/ Halawa Wells P1

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

Lab Sample ID: MRL 380-157634/13-A

Matrix: Water

Analysis Batch: 157759

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 157634

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoroundecanoic acid (PFUnA)	2.00	2.39	J	ng/L		119	50 - 150
Perfluorobutanoic acid (PFBA)	2.00	2.30	J	ng/L		115	50 - 150
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	2.00	2.32	J	ng/L		116	50 - 150
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	2.00	2.37	J	ng/L		118	50 - 150
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	2.00	2.27	J	ng/L		113	50 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	2.00	2.06	J	ng/L		103	50 - 150
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	2.00	2.12	J	ng/L		106	50 - 150
Perfluoro-3-methoxypropanoic acid (PFMPA)	2.00	2.31	J	ng/L		115	50 - 150
Perfluoro-4-methoxybutanoic acid (PFMBA)	2.00	2.10	J	ng/L		105	50 - 150
Perfluoropentanoic acid (PFPeA)	2.00	2.12	J	ng/L		106	50 - 150
Perfluoroheptanesulfonic acid (PFHpS)	2.00	2.18	J	ng/L		109	50 - 150
Perfluoropentanesulfonic acid (PFPeS)	2.00	2.16	J	ng/L		108	50 - 150

Isotope Dilution	MRL %Recovery	MRL Qualifier	Limits
13C3 HFPO-DA	99		50 - 200
13C6 PFDA	96		50 - 200
13C5 PFHxA	102		50 - 200
13C4 PFHpA	99		50 - 200
13C8 PFOA	108		50 - 200
13C9 PFNA	105		50 - 200
13C7 PFUnA	95		50 - 200
13C2 PFDoA	94		50 - 200
13C4 PFBA	103		50 - 200
13C5 PFPeA	110		50 - 200
13C3 PFBS	97		50 - 200
13C3 PFHxS	102		50 - 200
13C8 PFOS	99		50 - 200
13C2-4:2-FTS	96		50 - 200
13C2-6:2-FTS	90		50 - 200
13C2-8:2-FTS	89		50 - 200

Lab Sample ID: 380-154977-1 MS

Matrix: Drinking Water

Analysis Batch: 157759

Client Sample ID: MOANALUA WELLS P3 (331-223-TP202)

Prep Type: Total/NA

Prep Batch: 157634

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS)	<2.0		120	109		ng/L		91	70 - 130

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QC Sample Results

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

Job ID: 380-154977-1
SDG: PFAS: Moanalua Wells P3/Aiea Wells P2/Aiea Gulch
Wells P1/P2/ Halawa Wells P1

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

Lab Sample ID: 380-154977-1 MS

Client Sample ID: MOANALUA WELLS P3 (331-223-TP202)

Matrix: Drinking Water

Prep Type: Total/NA

Analysis Batch: 157759

Prep Batch: 157634

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
9-Chlorohexadecafluoro-3-oxanone-1-sulfonic acid(9Cl-PF3ONS)	<2.0		120	121		ng/L		101	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		120	124		ng/L		103	70 - 130
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		120	120		ng/L		100	70 - 130
Perfluorobutanesulfonic acid (PFBS)	<2.0		120	119		ng/L		100	70 - 130
Perfluorodecanoic acid (PFDA)	<2.0		120	126		ng/L		105	70 - 130
Perfluorododecanoic acid (PFDoA)	<2.0		120	119		ng/L		100	70 - 130
Perfluoroheptanoic acid (PFHpA)	<2.0		120	120		ng/L		100	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	<2.0		120	123		ng/L		102	70 - 130
Perfluorohexanoic acid (PFHxA)	<2.0		120	117		ng/L		98	70 - 130
Perfluorononanoic acid (PFNA)	<2.0		120	124		ng/L		103	70 - 130
Perfluorooctanesulfonic acid (PFOS)	<2.0		120	126		ng/L		104	70 - 130
Perfluorooctanoic acid (PFOA)	<2.0		120	119		ng/L		100	70 - 130
Perfluoroundecanoic acid (PFUnA)	<2.0		120	118		ng/L		98	70 - 130
Perfluorobutanoic acid (PFBA)	<2.0		120	121		ng/L		101	70 - 130
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		120	119		ng/L		99	70 - 130
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		120	126		ng/L		105	70 - 130
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		120	119		ng/L		99	70 - 130
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		120	114		ng/L		95	70 - 130
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEA)	<2.0		120	117		ng/L		98	70 - 130
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		120	125		ng/L		104	70 - 130
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		120	127		ng/L		106	70 - 130
Perfluoropentanoic acid (PFPeA)	<2.0		120	120		ng/L		100	70 - 130
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		120	122		ng/L		102	70 - 130
Perfluoropentanesulfonic acid (PFPeS)	<2.0		120	119		ng/L		99	70 - 130

Isotope Dilution	MS %Recovery	MS Qualifier	Limits
13C3 HFPO-DA	101		50 - 200
13C6 PFDA	96		50 - 200
13C5 PFHxA	102		50 - 200
13C4 PFHpA	99		50 - 200
13C8 PFOA	104		50 - 200
13C9 PFNA	105		50 - 200
13C7 PFUnA	100		50 - 200
13C2 PFDoA	93		50 - 200

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QC Sample Results

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

Job ID: 380-154977-1
SDG: PFAS: Moanalua Wells P3/Aiea Wells P2/Aiea Gulch
Wells P1/P2/ Halawa Wells P1

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

Lab Sample ID: 380-154977-1 MS

Matrix: Drinking Water

Analysis Batch: 157759

Client Sample ID: MOANALUA WELLS P3 (331-223-TP202)

Prep Type: Total/NA

Prep Batch: 157634

Isotope Dilution	MS %Recovery	MS Qualifier	Limits
13C4 PFBA	101		50 - 200
13C5 PFPeA	107		50 - 200
13C3 PFBS	97		50 - 200
13C3 PFHxS	99		50 - 200
13C8 PFOS	96		50 - 200
13C2-4:2-FTS	92		50 - 200
13C2-6:2-FTS	85		50 - 200
13C2-8:2-FTS	87		50 - 200

Lab Sample ID: 380-154977-1 MSD

Matrix: Drinking Water

Analysis Batch: 157759

Client Sample ID: MOANALUA WELLS P3 (331-223-TP202)

Prep Type: Total/NA

Prep Batch: 157634

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		120	112		ng/L		94	70 - 130	3	30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	<2.0		120	121		ng/L		101	70 - 130	0	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		120	123		ng/L		103	70 - 130	0	30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		120	115		ng/L		96	70 - 130	5	30
Perfluorobutanesulfonic acid (PFBS)	<2.0		120	119		ng/L		99	70 - 130	0	30
Perfluorodecanoic acid (PFDA)	<2.0		120	125		ng/L		104	70 - 130	1	30
Perfluorododecanoic acid (PFDoA)	<2.0		120	126		ng/L		105	70 - 130	5	30
Perfluoroheptanoic acid (PFHpA)	<2.0		120	122		ng/L		102	70 - 130	2	30
Perfluorohexanesulfonic acid (PFHxS)	<2.0		120	122		ng/L		101	70 - 130	0	30
Perfluorohexanoic acid (PFHxA)	<2.0		120	118		ng/L		98	70 - 130	1	30
Perfluorononanoic acid (PFNA)	<2.0		120	120		ng/L		100	70 - 130	3	30
Perfluorooctanesulfonic acid (PFOS)	<2.0		120	128		ng/L		106	70 - 130	2	30
Perfluorooctanoic acid (PFOA)	<2.0		120	118		ng/L		99	70 - 130	1	30
Perfluoroundecanoic acid (PFUnA)	<2.0		120	121		ng/L		101	70 - 130	2	30
Perfluorobutanoic acid (PFBA)	<2.0		120	119		ng/L		100	70 - 130	1	30
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		120	119		ng/L		99	70 - 130	0	30
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		120	115		ng/L		96	70 - 130	9	30
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		120	120		ng/L		100	70 - 130	1	30
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		120	117		ng/L		98	70 - 130	2	30
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEA)	<2.0		120	118		ng/L		98	70 - 130	1	30
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		120	125		ng/L		105	70 - 130	0	30

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-154977-1
SDG: PFAS: Moanalua Wells P3/Aiea Wells P2/Aiea Gulch
Wells P1/P2/ Halawa Wells P1

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

Lab Sample ID: 380-154977-1 MSD

Client Sample ID: MOANALUA WELLS P3 (331-223-TP202)

Matrix: Drinking Water

Prep Type: Total/NA

Analysis Batch: 157759

Prep Batch: 157634

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		120	121		ng/L		101	70 - 130	5	30
Perfluoropentanoic acid (PFPeA)	<2.0		120	118		ng/L		98	70 - 130	2	30
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		120	126		ng/L		105	70 - 130	3	30
Perfluoropentanesulfonic acid (PFPeS)	<2.0		120	119		ng/L		100	70 - 130	0	30
Isotope Dilution	MSD %Recovery	MSD Qualifier	Limits								
13C3 HFPO-DA	103		50 - 200								
13C6 PFDA	98		50 - 200								
13C5 PFHxA	101		50 - 200								
13C4 PFHpA	97		50 - 200								
13C8 PFOA	106		50 - 200								
13C9 PFNA	107		50 - 200								
13C7 PFUnA	99		50 - 200								
13C2 PFDoA	91		50 - 200								
13C4 PFBA	103		50 - 200								
13C5 PFPeA	109		50 - 200								
13C3 PFBS	99		50 - 200								
13C3 PFHxS	100		50 - 200								
13C8 PFOS	98		50 - 200								
13C2-4:2-FTS	101		50 - 200								
13C2-6:2-FTS	90		50 - 200								
13C2-8:2-FTS	90		50 - 200								

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

Lab Sample ID: MBL 380-157752/20-A

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 157857

Prep Batch: 157752

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<1.0		2.0	ng/L		06/13/25 02:08	06/13/25 14:39	1
Perfluorooctanesulfonic acid (PFOS)	<0.43		2.0	ng/L		06/13/25 02:08	06/13/25 14:39	1
Perfluoroundecanoic acid (PFUnA)	<0.42		2.0	ng/L		06/13/25 02:08	06/13/25 14:39	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.58		2.0	ng/L		06/13/25 02:08	06/13/25 14:39	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.42		2.0	ng/L		06/13/25 02:08	06/13/25 14:39	1
Perfluorohexanoic acid (PFHxA)	<0.46		2.0	ng/L		06/13/25 02:08	06/13/25 14:39	1
Perfluorododecanoic acid (PFDoA)	<0.54		2.0	ng/L		06/13/25 02:08	06/13/25 14:39	1
Perfluorooctanoic acid (PFOA)	<0.38		2.0	ng/L		06/13/25 02:08	06/13/25 14:39	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	ng/L		06/13/25 02:08	06/13/25 14:39	1
Perfluorohexanesulfonic acid (PFHxS)	<0.32		2.0	ng/L		06/13/25 02:08	06/13/25 14:39	1
Perfluorobutanesulfonic acid (PFBS)	<0.37		2.0	ng/L		06/13/25 02:08	06/13/25 14:39	1
Perfluoroheptanoic acid (PFHpA)	<0.39		2.0	ng/L		06/13/25 02:08	06/13/25 14:39	1
Perfluorononanoic acid (PFNA)	<0.40		2.0	ng/L		06/13/25 02:08	06/13/25 14:39	1
Perfluorotetradecanoic acid (PFTA)	<0.54		2.0	ng/L		06/13/25 02:08	06/13/25 14:39	1

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QC Sample Results

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

Job ID: 380-154977-1
SDG: PFAS: Moanalua Wells P3/Aiea Wells P2/Aiea Gulch
Wells P1/P2/ Halawa Wells P1

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

Lab Sample ID: MBL 380-157752/20-A

Matrix: Water

Analysis Batch: 157857

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 157752

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorotridecanoic acid (PFTTrDA)	<0.36		2.0	ng/L		06/13/25 02:08	06/13/25 14:39	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<0.30		2.0	ng/L		06/13/25 02:08	06/13/25 14:39	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<0.30		2.0	ng/L		06/13/25 02:08	06/13/25 14:39	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.60		2.0	ng/L		06/13/25 02:08	06/13/25 14:39	1
Surrogate	MBL %Recovery	MBL Qualifier	Limits			Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	95		70 - 130			06/13/25 02:08	06/13/25 14:39	1
13C2 PFHxA	98		70 - 130			06/13/25 02:08	06/13/25 14:39	1
13C2 PFDA	103		70 - 130			06/13/25 02:08	06/13/25 14:39	1
13C3-GenX	95		70 - 130			06/13/25 02:08	06/13/25 14:39	1

Lab Sample ID: LCS 380-157752/22-A

Matrix: Water

Analysis Batch: 157857

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 157752

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	50.1	42.9		ng/L		86	70 - 130
Perfluorooctanesulfonic acid (PFOS)	50.1	51.4		ng/L		103	70 - 130
Perfluoroundecanoic acid (PFUnA)	50.1	51.2		ng/L		102	70 - 130
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	50.1	46.6		ng/L		93	70 - 130
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	50.1	47.1		ng/L		94	70 - 130
Perfluorohexanoic acid (PFHxA)	50.1	44.2		ng/L		88	70 - 130
Perfluorododecanoic acid (PFDoA)	50.1	49.4		ng/L		99	70 - 130
Perfluorooctanoic acid (PFOA)	50.1	47.9		ng/L		96	70 - 130
Perfluorodecanoic acid (PFDA)	50.1	51.4		ng/L		103	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	50.1	52.6		ng/L		105	70 - 130
Perfluorobutanesulfonic acid (PFBS)	50.1	49.4		ng/L		99	70 - 130
Perfluoroheptanoic acid (PFHpA)	50.1	45.9		ng/L		92	70 - 130
Perfluorononanoic acid (PFNA)	50.1	51.5		ng/L		103	70 - 130
Perfluorotetradecanoic acid (PFTA)	50.1	45.1		ng/L		90	70 - 130
Perfluorotridecanoic acid (PFTTrDA)	50.1	48.4		ng/L		97	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	50.1	52.7		ng/L		105	70 - 130
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	50.1	49.9		ng/L		100	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	50.1	43.9		ng/L		88	70 - 130

Eurofins Eaton Analytical Pomona

QC Sample Results

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

Job ID: 380-154977-1
SDG: PFAS: Moanalua Wells P3/Aiea Wells P2/Aiea Gulch
Wells P1/P2/ Halawa Wells P1

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

Surrogate	LCS		Limits
	%Recovery	Qualifier	
d5-NEtFOSAA	89		70 - 130
13C2 PFHxA	91		70 - 130
13C2 PFDA	102		70 - 130
13C3-GenX	89		70 - 130

Lab Sample ID: MRL 380-157752/21-A				Client Sample ID: Lab Control Sample			
Matrix: Water				Prep Type: Total/NA			
Analysis Batch: 157857				Prep Batch: 157752			

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Hexafluoropropylene Oxide	2.00	1.90	J	ng/L		95	50 - 150
Dimer Acid (HFPO-DA/GenX)							
Perfluorooctanesulfonic acid (PFOS)	2.00	2.28	J	ng/L		114	50 - 150
Perfluoroundecanoic acid (PFUnA)	2.00	2.11	J	ng/L		105	50 - 150
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.00	2.02	J	ng/L		101	50 - 150
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.00	2.09	J	ng/L		105	50 - 150
Perfluorohexanoic acid (PFHxA)	2.00	2.04	J	ng/L		102	50 - 150
Perfluorododecanoic acid (PFDoA)	2.00	1.93	J	ng/L		97	50 - 150
Perfluorooctanoic acid (PFOA)	2.00	1.93	J	ng/L		97	50 - 150
Perfluorodecanoic acid (PFDA)	2.00	2.15	J	ng/L		107	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	2.00	2.19	J	ng/L		109	50 - 150
Perfluorobutanesulfonic acid (PFBS)	2.00	1.98	J	ng/L		99	50 - 150
Perfluoroheptanoic acid (PFHpA)	2.00	2.05	J	ng/L		102	50 - 150
Perfluorononanoic acid (PFNA)	2.00	2.11	J	ng/L		106	50 - 150
Perfluorotetradecanoic acid (PFTA)	2.00	1.63	J	ng/L		82	50 - 150
Perfluorotridecanoic acid (PFTrDA)	2.00	2.01	J	ng/L		101	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	2.00	2.10	J	ng/L		105	50 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.00	2.06	J	ng/L		103	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	2.00	1.98	J	ng/L		99	50 - 150

Surrogate	MRL		Limits
	%Recovery	Qualifier	
d5-NEtFOSAA	98		70 - 130
13C2 PFHxA	98		70 - 130
13C2 PFDA	103		70 - 130
13C3-GenX	99		70 - 130

QC Sample Results

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

Job ID: 380-154977-1
SDG: PFAS: Moanalua Wells P3/Aiea Wells P2/Aiea Gulch
Wells P1/P2/ Halawa Wells P1

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

Lab Sample ID: 380-154977-1 MS

Matrix: Drinking Water

Analysis Batch: 157857

Client Sample ID: MOANALUA WELLS P3 (331-223-TP202)

Prep Type: Total/NA

Prep Batch: 157752

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		50.2	46.8		ng/L		93	70 - 130
Perfluorooctanesulfonic acid (PFOS)	<2.0		50.2	51.9		ng/L		103	70 - 130
Perfluoroundecanoic acid (PFUnA)	<2.0		50.2	49.4		ng/L		98	70 - 130
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		50.2	50.6		ng/L		101	70 - 130
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		50.2	48.8		ng/L		97	70 - 130
Perfluorohexanoic acid (PFHxA)	<2.0		50.2	46.4		ng/L		93	70 - 130
Perfluorododecanoic acid (PFDoA)	<2.0		50.2	47.1		ng/L		94	70 - 130
Perfluorooctanoic acid (PFOA)	<2.0		50.2	48.2		ng/L		96	70 - 130
Perfluorodecanoic acid (PFDA)	<2.0		50.2	51.1		ng/L		102	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	<2.0		50.2	51.9		ng/L		103	70 - 130
Perfluorobutanesulfonic acid (PFBS)	<2.0		50.2	50.0		ng/L		100	70 - 130
Perfluoroheptanoic acid (PFHpA)	<2.0		50.2	48.5		ng/L		97	70 - 130
Perfluorononanoic acid (PFNA)	<2.0		50.2	51.3		ng/L		102	70 - 130
Perfluorotetradecanoic acid (PFTA)	<2.0		50.2	36.9		ng/L		73	70 - 130
Perfluorotridecanoic acid (PFTrDA)	<2.0		50.2	48.9		ng/L		97	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		50.2	52.1		ng/L		104	70 - 130
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		50.2	49.4		ng/L		98	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		50.2	46.0		ng/L		92	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
d5-NEtFOSAA	101		70 - 130
13C2 PFHxA	99		70 - 130
13C2 PFDA	105		70 - 130
13C3-GenX	102		70 - 130

Lab Sample ID: 380-154977-1 MSD

Matrix: Drinking Water

Analysis Batch: 157857

Client Sample ID: MOANALUA WELLS P3 (331-223-TP202)

Prep Type: Total/NA

Prep Batch: 157752

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		50.2	49.0		ng/L		98	70 - 130	5	30
Perfluorooctanesulfonic acid (PFOS)	<2.0		50.2	53.6		ng/L		107	70 - 130	3	30
Perfluoroundecanoic acid (PFUnA)	<2.0		50.2	51.1		ng/L		102	70 - 130	3	30

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QC Sample Results

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

Job ID: 380-154977-1
SDG: PFAS: Moanalua Wells P3/Aiea Wells P2/Aiea Gulch
Wells P1/P2/ Halawa Wells P1

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

Lab Sample ID: 380-154977-1 MSD

Client Sample ID: MOANALUA WELLS P3 (331-223-TP202)

Matrix: Drinking Water

Prep Type: Total/NA

Analysis Batch: 157857

Prep Batch: 157752

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		50.2	48.9		ng/L		97	70 - 130	3	30
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		50.2	49.3		ng/L		98	70 - 130	1	30
Perfluorohexanoic acid (PFHxA)	<2.0		50.2	50.6		ng/L		101	70 - 130	9	30
Perfluorododecanoic acid (PFDoA)	<2.0		50.2	50.3		ng/L		100	70 - 130	7	30
Perfluorooctanoic acid (PFOA)	<2.0		50.2	50.4		ng/L		100	70 - 130	5	30
Perfluorodecanoic acid (PFDA)	<2.0		50.2	53.8		ng/L		107	70 - 130	5	30
Perfluorohexanesulfonic acid (PFHxS)	<2.0		50.2	54.4		ng/L		108	70 - 130	5	30
Perfluorobutanesulfonic acid (PFBS)	<2.0		50.2	52.5		ng/L		105	70 - 130	5	30
Perfluoroheptanoic acid (PFHpA)	<2.0		50.2	50.6		ng/L		101	70 - 130	4	30
Perfluorononanoic acid (PFNA)	<2.0		50.2	52.7		ng/L		105	70 - 130	3	30
Perfluorotetradecanoic acid (PFTA)	<2.0		50.2	39.0		ng/L		78	70 - 130	6	30
Perfluorotridecanoic acid (PFTrDA)	<2.0		50.2	51.2		ng/L		102	70 - 130	4	30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		50.2	53.6		ng/L		107	70 - 130	3	30
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		50.2	50.4		ng/L		100	70 - 130	2	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		50.2	48.2		ng/L		96	70 - 130	5	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
d5-NEtFOSAA	93		70 - 130
13C2 PFHxA	104		70 - 130
13C2 PFDA	105		70 - 130
13C3-GenX	97		70 - 130

QC Association Summary

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

Job ID: 380-154977-1
SDG: PFAS: Moanalua Wells P3/Aiea Wells P2/Aiea Gulch
Wells P1/P2/ Halawa Wells P1

LCMS

Prep Batch: 157634

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-154977-1	MOANALUA WELLS P3 (331-223-TP202)	Total/NA	Drinking Water	533	
380-154977-2	AIEA WELLS PUMPS 1&2 P2 (260) (331-203-TP	Total/NA	Drinking Water	533	
380-154977-3	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	533	
380-154977-4	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	533	
380-154977-5	HALAWA WELLS P1 (331-023-WL065)	Total/NA	Drinking Water	533	
380-154977-6	FB: MOANALUA WELLS (331-223-TP202)	Total/NA	Water	533	
380-154977-7	FB: AIEA WELLS PUMPS 1&2 (260) (331-203-TF	Total/NA	Water	533	
380-154977-8	FB: AIEA GULCH WELLS PUMP 1 (331-201-TPC	Total/NA	Water	533	
380-154977-9	FB: AIEA GULCH WELLS PUMP 2 (331-202-TPC	Total/NA	Water	533	
380-154977-10	FB: HALAWA WELLS P1 (331-023-WL065)	Total/NA	Water	533	
MBL 380-157634/12-A	Method Blank	Total/NA	Water	533	
LCS 380-157634/14-A	Lab Control Sample	Total/NA	Water	533	
MRL 380-157634/13-A	Lab Control Sample	Total/NA	Water	533	
380-154977-1 MS	MOANALUA WELLS P3 (331-223-TP202)	Total/NA	Drinking Water	533	
380-154977-1 MSD	MOANALUA WELLS P3 (331-223-TP202)	Total/NA	Drinking Water	533	

Prep Batch: 157752

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-154977-1	MOANALUA WELLS P3 (331-223-TP202)	Total/NA	Drinking Water	537.1 DW	
380-154977-2	AIEA WELLS PUMPS 1&2 P2 (260) (331-203-TP	Total/NA	Drinking Water	537.1 DW	
380-154977-3	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	537.1 DW	
380-154977-4	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	537.1 DW	
380-154977-5	HALAWA WELLS P1 (331-023-WL065)	Total/NA	Drinking Water	537.1 DW	
380-154977-6	FB: MOANALUA WELLS (331-223-TP202)	Total/NA	Water	537.1 DW	
380-154977-7	FB: AIEA WELLS PUMPS 1&2 (260) (331-203-TF	Total/NA	Water	537.1 DW	
380-154977-8	FB: AIEA GULCH WELLS PUMP 1 (331-201-TPC	Total/NA	Water	537.1 DW	
380-154977-9	FB: AIEA GULCH WELLS PUMP 2 (331-202-TPC	Total/NA	Water	537.1 DW	
380-154977-10	FB: HALAWA WELLS P1 (331-023-WL065)	Total/NA	Water	537.1 DW	
MBL 380-157752/20-A	Method Blank	Total/NA	Water	537.1 DW	
LCS 380-157752/22-A	Lab Control Sample	Total/NA	Water	537.1 DW	
MRL 380-157752/21-A	Lab Control Sample	Total/NA	Water	537.1 DW	
380-154977-1 MS	MOANALUA WELLS P3 (331-223-TP202)	Total/NA	Drinking Water	537.1 DW	
380-154977-1 MSD	MOANALUA WELLS P3 (331-223-TP202)	Total/NA	Drinking Water	537.1 DW	

Analysis Batch: 157759

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-154977-1	MOANALUA WELLS P3 (331-223-TP202)	Total/NA	Drinking Water	533	157634
380-154977-2	AIEA WELLS PUMPS 1&2 P2 (260) (331-203-TP	Total/NA	Drinking Water	533	157634
380-154977-3	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	533	157634
380-154977-4	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	533	157634
380-154977-5	HALAWA WELLS P1 (331-023-WL065)	Total/NA	Drinking Water	533	157634
380-154977-6	FB: MOANALUA WELLS (331-223-TP202)	Total/NA	Water	533	157634
380-154977-7	FB: AIEA WELLS PUMPS 1&2 (260) (331-203-TF	Total/NA	Water	533	157634
380-154977-8	FB: AIEA GULCH WELLS PUMP 1 (331-201-TPC	Total/NA	Water	533	157634
380-154977-9	FB: AIEA GULCH WELLS PUMP 2 (331-202-TPC	Total/NA	Water	533	157634
380-154977-10	FB: HALAWA WELLS P1 (331-023-WL065)	Total/NA	Water	533	157634
MBL 380-157634/12-A	Method Blank	Total/NA	Water	533	157634
LCS 380-157634/14-A	Lab Control Sample	Total/NA	Water	533	157634
MRL 380-157634/13-A	Lab Control Sample	Total/NA	Water	533	157634
380-154977-1 MS	MOANALUA WELLS P3 (331-223-TP202)	Total/NA	Drinking Water	533	157634

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QC Association Summary

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

Job ID: 380-154977-1
SDG: PFAS: Moanalua Wells P3/Aiea Wells P2/Aiea Gulch
Wells P1/P2/ Halawa Wells P1

LCMS (Continued)

Analysis Batch: 157759 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-154977-1 MSD	MOANALUA WELLS P3 (331-223-TP202)	Total/NA	Drinking Water	533	157634

Analysis Batch: 157857

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-154977-1	MOANALUA WELLS P3 (331-223-TP202)	Total/NA	Drinking Water	537.1	157752
380-154977-2	AIEA WELLS PUMPS 1&2 P2 (260) (331-203-TP	Total/NA	Drinking Water	537.1	157752
380-154977-3	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Total/NA	Drinking Water	537.1	157752
380-154977-4	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	537.1	157752
380-154977-5	HALAWA WELLS P1 (331-023-WL065)	Total/NA	Drinking Water	537.1	157752
380-154977-6	FB: MOANALUA WELLS (331-223-TP202)	Total/NA	Water	537.1	157752
380-154977-7	FB: AIEA WELLS PUMPS 1&2 (260) (331-203-TF	Total/NA	Water	537.1	157752
380-154977-8	FB: AIEA GULCH WELLS PUMP 1 (331-201-TPC	Total/NA	Water	537.1	157752
380-154977-9	FB: AIEA GULCH WELLS PUMP 2 (331-202-TPC	Total/NA	Water	537.1	157752
380-154977-10	FB: HALAWA WELLS P1 (331-023-WL065)	Total/NA	Water	537.1	157752
MBL 380-157752/20-A	Method Blank	Total/NA	Water	537.1	157752
LCS 380-157752/22-A	Lab Control Sample	Total/NA	Water	537.1	157752
MRL 380-157752/21-A	Lab Control Sample	Total/NA	Water	537.1	157752
380-154977-1 MS	MOANALUA WELLS P3 (331-223-TP202)	Total/NA	Drinking Water	537.1	157752
380-154977-1 MSD	MOANALUA WELLS P3 (331-223-TP202)	Total/NA	Drinking Water	537.1	157752

Lab Chronicle

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

Job ID: 380-154977-1
SDG: PFAS: Moanalua Wells P3/Aiea Wells P2/Aiea Gulch
Wells P1/P2/ Halawa Wells P1

Client Sample ID: MOANALUA WELLS P3 (331-223-TP202)

Lab Sample ID: 380-154977-1

Date Collected: 06/09/25 09:20

Matrix: Drinking Water

Date Received: 06/11/25 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			157634	E2HD	EA POM	06/12/25 16:30
Total/NA	Analysis	533		1	157759	SZ9R	EA POM	06/13/25 09:29
Total/NA	Prep	537.1 DW			157752	G9MN	EA POM	06/13/25 02:08
Total/NA	Analysis	537.1		1	157857	Y5FM	EA POM	06/13/25 15:11

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

Lab Sample ID: 380-154977-2

Date Collected: 06/09/25 10:40

Matrix: Drinking Water

Date Received: 06/11/25 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			157634	E2HD	EA POM	06/12/25 16:30
Total/NA	Analysis	533		1	157759	SZ9R	EA POM	06/13/25 10:08
Total/NA	Prep	537.1 DW			157752	G9MN	EA POM	06/13/25 02:08
Total/NA	Analysis	537.1		1	157857	Y5FM	EA POM	06/13/25 16:26

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

Lab Sample ID: 380-154977-3

Date Collected: 06/09/25 10:30

Matrix: Drinking Water

Date Received: 06/11/25 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			157634	E2HD	EA POM	06/12/25 16:30
Total/NA	Analysis	533		1	157759	SZ9R	EA POM	06/13/25 10:17
Total/NA	Prep	537.1 DW			157752	G9MN	EA POM	06/13/25 02:08
Total/NA	Analysis	537.1		1	157857	Y5FM	EA POM	06/13/25 16:37

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

Lab Sample ID: 380-154977-4

Date Collected: 06/09/25 10:20

Matrix: Drinking Water

Date Received: 06/11/25 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			157634	E2HD	EA POM	06/12/25 16:30
Total/NA	Analysis	533		1	157759	SZ9R	EA POM	06/13/25 10:27
Total/NA	Prep	537.1 DW			157752	G9MN	EA POM	06/13/25 02:08
Total/NA	Analysis	537.1		1	157857	Y5FM	EA POM	06/13/25 16:48

Client Sample ID: HALAWA WELLS P1 (331-023-WL065)

Lab Sample ID: 380-154977-5

Date Collected: 06/09/25 09:50

Matrix: Drinking Water

Date Received: 06/11/25 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			157634	E2HD	EA POM	06/12/25 16:30
Total/NA	Analysis	533		1	157759	SZ9R	EA POM	06/13/25 10:37

Eurofins Eaton Analytical Pomona

Lab Chronicle

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

Job ID: 380-154977-1
SDG: PFAS: Moanalua Wells P3/Aiea Wells P2/Aiea Gulch
Wells P1/P2/ Halawa Wells P1

Client Sample ID: HALAWA WELLS P1 (331-023-WL065)

Lab Sample ID: 380-154977-5

Date Collected: 06/09/25 09:50

Matrix: Drinking Water

Date Received: 06/11/25 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			157752	G9MN	EA POM	06/13/25 02:08
Total/NA	Analysis	537.1		1	157857	Y5FM	EA POM	06/13/25 16:58

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

Lab Sample ID: 380-154977-6

Date Collected: 06/09/25 09:20

Matrix: Water

Date Received: 06/11/25 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			157634	E2HD	EA POM	06/12/25 16:30
Total/NA	Analysis	533		1	157759	SZ9R	EA POM	06/13/25 10:46
Total/NA	Prep	537.1 DW			157752	G9MN	EA POM	06/13/25 02:08
Total/NA	Analysis	537.1		1	157857	Y5FM	EA POM	06/13/25 17:09

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

Lab Sample ID: 380-154977-7

Date Collected: 06/09/25 10:40

Matrix: Water

Date Received: 06/11/25 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			157634	E2HD	EA POM	06/12/25 16:30
Total/NA	Analysis	533		1	157759	SZ9R	EA POM	06/13/25 10:56
Total/NA	Prep	537.1 DW			157752	G9MN	EA POM	06/13/25 02:08
Total/NA	Analysis	537.1		1	157857	Y5FM	EA POM	06/13/25 17:31

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

Lab Sample ID: 380-154977-8

Date Collected: 06/09/25 10:30

Matrix: Water

Date Received: 06/11/25 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			157634	E2HD	EA POM	06/12/25 16:30
Total/NA	Analysis	533		1	157759	SZ9R	EA POM	06/13/25 11:06
Total/NA	Prep	537.1 DW			157752	G9MN	EA POM	06/13/25 02:08
Total/NA	Analysis	537.1		1	157857	Y5FM	EA POM	06/13/25 17:41

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

Lab Sample ID: 380-154977-9

Date Collected: 06/09/25 10:20

Matrix: Water

Date Received: 06/11/25 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			157634	E2HD	EA POM	06/12/25 16:30
Total/NA	Analysis	533		1	157759	SZ9R	EA POM	06/13/25 11:15
Total/NA	Prep	537.1 DW			157752	G9MN	EA POM	06/13/25 02:08
Total/NA	Analysis	537.1		1	157857	Y5FM	EA POM	06/13/25 17:52

Eurofins Eaton Analytical Pomona

Lab Chronicle

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

Job ID: 380-154977-1
SDG: PFAS: Moanalua Wells P3/Aiea Wells P2/Aiea Gulch
Wells P1/P2/ Halawa Wells P1

Client Sample ID: FB: HALAWA WELLS P1 (331-023-WL065)

Lab Sample ID: 380-154977-10

Date Collected: 06/09/25 09:50

Matrix: Water

Date Received: 06/11/25 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			157634	E2HD	EA POM	06/12/25 16:30
Total/NA	Analysis	533		1	157759	SZ9R	EA POM	06/13/25 11:36
Total/NA	Prep	537.1 DW			157752	G9MN	EA POM	06/13/25 02:08
Total/NA	Analysis	537.1		1	157857	Y5FM	EA POM	06/13/25 18:03

Laboratory References:

EA POM = Eurofins Eaton Analytical Pomona, 941 Corporate Center Drive, Pomona, CA 91768-2642, TEL (626)386-1100

Accreditation/Certification Summary

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

Job ID: 380-154977-1
SDG: PFAS: Moanalua Wells P3/Aiea Wells P2/Aiea Gulch
Wells P1/P2/ Halawa Wells P1

Laboratory: Eurofins Eaton Analytical Pomona

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

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

- 1
- 2
- 3
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- 16
- 17

Method Summary

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

Job ID: 380-154977-1
SDG: PFAS: Moanalua Wells P3/Aiea Wells P2/Aiea Gulch
Wells P1/P2/ Halawa Wells P1

Method	Method Description	Protocol	Laboratory
533	Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water	EPA	EA POM
537.1	Perfluorinated Alkyl Acids (LC/MS)	EPA	EA POM
533	Extraction of Perfluorinated and Polyfluorinated Alkyl Acids	EPA	EA POM
537.1 DW	Extraction of Perfluorinated Alkyl Acids	EPA	EA POM

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

EA POM = Eurofins Eaton Analytical Pomona, 941 Corporate Center Drive, Pomona, CA 91768-2642, TEL (626)386-1100

Sample Summary

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

Job ID: 380-154977-1
SDG: PFAS: Moanalua Wells P3/Aiea Wells P2/Aiea Gulch
Wells P1/P2/ Halawa Wells P1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	PWSID Number
380-154977-1	MOANALUA WELLS P3 (331-223-TP202)	Drinking Water	06/09/25 09:20	06/11/25 09:30	HI0000331
380-154977-2	AIEA WELLS PUMPS 1&2 P2 (260) (331-203-TP400)	Drinking Water	06/09/25 10:40	06/11/25 09:30	HI0000331
380-154977-3	AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Drinking Water	06/09/25 10:30	06/11/25 09:30	HI0000331
380-154977-4	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Drinking Water	06/09/25 10:20	06/11/25 09:30	HI0000331
380-154977-5	HALAWA WELLS P1 (331-023-WL065)	Drinking Water	06/09/25 09:50	06/11/25 09:30	HI0000331
380-154977-6	FB: MOANALUA WELLS (331-223-TP202)	Water	06/09/25 09:20	06/11/25 09:30	HI0000331
380-154977-7	FB: AIEA WELLS PUMPS 1&2 (260) (331-203-TP400)	Water	06/09/25 10:40	06/11/25 09:30	HI0000331
380-154977-8	FB: AIEA GULCH WELLS PUMP 1 (331-201-TP071)	Water	06/09/25 10:30	06/11/25 09:30	HI0000331
380-154977-9	FB: AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Water	06/09/25 10:20	06/11/25 09:30	HI0000331
380-154977-10	FB: HALAWA WELLS P1 (331-023-WL065)	Water	06/09/25 09:50	06/11/25 09:30	HI0000331

Eurofins Eaton Analytical Pomona

941 Corporate Center Drive
Pomona, CA 91768-2642
Phone (626) 386-1100

Chain of Custody Record



Environment Testing

Client Information		Sampler: Olaf Happe / <i>Olaf Happe</i>		Lab PM: Arada, Rachelle		Carrier Tracking No(s):		COC No: 380-28005-2757 1					
Client Contact: Kirk Iwamoto		Phone: +1 808 748 5840		E-Mail: Rachelle.Arada@et.eurofinsus.com		State of Origin:		Page: Page 1 of 1					
Company: City & County of Honolulu		PWSID:		Analysis Requested						Job #:			
Address: 630 South Beretania Street Chemistry Lab		Due Date Requested:		Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) 625.1, 625.1 SIM 8015B_GRO_LL - (MOD) GRO 8015B_DRQ_LL_CS - HNL Ranges, C10-C24/C24-C36/C8-C18 525.2_PREC - (MOD) 525plus Plus TICs 537.1_DW_PREC - 537.1 Full List 533 - All Analytes Total Number of containers						Preservation Codes: R - NaThioSO4 RA - NaThio/HCl Q - Na2SO3 QA - Na2SO3/HCl Y - Trizma I - NH4 Acetate			
City: Honolulu		TAT Requested (days):								Other:			
State, Zip: HI, 96843		Compliance Project ☐ Yes ☐ No											
Phone: 808-748-5840 (Tel)		PO #: C20525101 exp 05312023											
Email: kiwamoto@hbws.org		WO #:											
Project Name: RED-HILL/HBWS Sites Event Desc. RUSH Weekly Red Hill		Project #: 38001111											
Site: Hawaii		SSOW#:											
Sample Identification		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Matrix (W=water, S=solid, O=waste/oli, BT=Tissue, A=Air)		Preservation Code:		Special Instructions/Note:	
Moanalua Wells P 3		9-Jun-2025		920		W		Water		3 3		chlorinated	
Aiea Wells Units 1&2 (260) P2		9-Jun-2025		1040		W		Water		3 3			
Aiea Gulch Wells P1		9-Jun-2025		1030		W		Water		3 3		chlorinated	
Aiea Gulch Wells P2		9-Jun-2025		1030		W		Water		3 3		chlorinated	
Halawa Wells P1		9-Jun-2025		950		W		Water		3 3			
FB Moanalua Wells		9-Jun-2025		920						1 1			
FB Aiea Wells Units 1&2		9-Jun-2025		1040						1 1			
FB Aiea Gulch Wells P1		9-Jun-2025		1030						1 1			
FB Aiea Gulch Wells P2		9-Jun-2025		1030						1 1			
FB Halawa Wells P1		9-Jun-2025		950						1 1			
Possible Hazard Identification										Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)			
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological										☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months			
Deliverable Requested I, II, III, IV, Other (specify)										Special Instructions/QC Requirements			
Empty Kit Relinquished by				Date		Time		Method of Shipment: <i>RELEX Express 8819 2415 3980</i>					
Relinquished by:		Date/Time:		Company		Received by:		Date/Time:		Company			
Relinquished by:		Date/Time:		Company		Received by:		Date/Time:		Company			
Relinquished by:		Date/Time:		Company		Received by:		Date/Time:		Company			
Custody Seals Intact.		Custody Seal No		Cooler Temperature(s) °C and Other Remarks: <i>(630A) 34±0.0-34°C frozen / gel ice</i>									
☐ Yes ☐ No													

Eurofins Eaton Analytical Pomona

941 Corporate Center Drive

Pomona, CA 91768-2642

Phone (626) 386-1100

Chain of Custody Record



Environment Testing

Client Information		Sampler Olaf Happe / <i>Olaf Happe</i>		Lab PM Arada, Rachele		Carrier Tracking No(s)		COC No: 380-28005-2757 1																							
Client Contact: Kirk Iwamoto		Phone: +1 808 748 5840		E-Mail: Rachele Arada@et.eurofinsus.com		State of Origin:		Page: Page 1 of 1																							
Company: City & County of Honolulu		PWSID:		Analysis Requested						Job #:																					
Address: 630 South Beretania Street Chemistry Lab		Due Date Requested:		Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) 625.1, 625.1 SIM 8015B_GRO_LL - (MOD) GRO 8015B_DRO_LL_CS - HNL Ranges C10-C24/C24-C36/C36-C18 525.2, PREC - (MOD) 525plus Plus TICs 537.1, DW_PREC - 537.1 Full List 533 - All Analytes Total Number of containers						Preservation Codes: R - NaThioSO4 RA - NaThio/HCl Q - Na2SO3 QA - Na2SO3/HCl Y - Trizma I - NH4 Acetate Other:																					
City: Honolulu		TAT Requested (days):																													
State Zip: HI, 96843		Compliance Project ☐ Yes ☐ No																													
Phone: 808-748-5840 (Tel)		PO #: C20525101 exp 05312023																													
Email: kiwamoto@hbws.org		WO #:																													
Project Name: RED-HILL/HBWS Sites Event Desc RUSH Weekly Red Hill		Project #: 38001111																													
Site: Hawaii		SSOW#:																													
Sample Identification		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Matrix (W=water, S=solid, O=waste/oil, BT=tissue, A=air)		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		625.1, 625.1 SIM		8015B_GRO_LL - (MOD) GRO		8015B_DRO_LL_CS - HNL Ranges C10-C24/C24-C36/C36-C18		525.2, PREC - (MOD) 525plus Plus TICs		537.1, DW_PREC - 537.1 Full List		533 - All Analytes		Total Number of containers		Special Instructions/Note:			
Moanalua Wells P 3		9-Jun-2025		920		G		Water																						chlorinated	
Aiea Wells Units 1&2 (260) P2		9-Jun-2025		1040		G		Water																							
Aiea Gulch Wells P1		9-Jun-2025		1030		G		Water																						chlorinated	
Aiea Gulch Wells P2		9-Jun-2025		1020		G		Water																						chlorinated	
Halawa Wells P1		9-Jun-2025		950		G		Water																							
FB Moanalua Wells		9-Jun-2025		920																											
FB Aiea Wells Units 1&2		9-Jun-2025		1040																											
FB Aiea Gulch Wells P1		9-Jun-2025		1030																											
FB Aiea Gulch Wells P2		9-Jun-2025		1020																											
FB Halawa Wells P1		9-Jun-2025		950																											
Possible Hazard Identification		☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological																													
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months																													
Deliverable Requested I, II, III, IV, Other (specify)																															
Special Instructions/QC Requirements																															
Empty Kit Relinquished by:		Date		Time		Method of Shipment:																									
Relinquished by: <i>O. Happe</i>		Date/Time: 6-10-25 11:00		Company:		Received by: <i>Arada</i>		Date/Time: 6/10/25 9:30		Company: <i>comp</i>																					
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:																					
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:																					
Custody Seals Intact:		Custody Seal No.																													
☐ Yes ☐ No																															

Eurofins Eaton Analytical Pomona

941 Corporate Center Drive
Pomona, CA 91768-2642
Phone (626) 386-1100

Chain of Custody Record



Environment Testing

Client Information		Sampler Olaf Happe / <i>Olaf Happe</i>		Lab PM Arada, Rachelle		Carrier Tracking No(s)		COC No. 380-28005-2757 1																			
Client Contact: Kirk Iwamoto		Phone +1 808 748 5840		E-Mail Rachelle.Arada@et.eurofinsus.com		State of Origin:		Page Page 1 of 1																			
Company City & County of Honolulu		PWSID		Analysis Requested						Job #																	
Address 630 South Beretania Street Chemistry Lab		Due Date Requested		Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) 625.1, 625.1 SIM 8015B_GRO_LL - (MOD) GRO 8015B_DRO_LL_CS - HNL Ranges, C10-C24/C24-C36/C38-C18 525.2_PREC - (MOD) 525plus Plus TICs 537.1_DW_PREC - 537.1 Full List 533 - All Analytes Total Number of containers						Preservation Codes R NaThioSO4 RA NaThio/HCl Q Na2SO3 QA Na2SO3/HCl Y Trizma I NH4 Acetate																	
City Honolulu		TAT Requested (days)								Other																	
State, Zip HI, 96843		Compliance Project ☐ Yes ☐ No																									
Phone 808-748-5840 (Tel)		PO # C20525101 exp 05312023																									
Email kiwamoto@hbws.org		WO #																									
Project Name RED-HILL/HBWS Sites Event Desc. RUSH Weekly Red Hill		Project # 38001111								Special Instructions/Note:																	
Site Hawaii		SSOW#																									
Sample Identification		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		625.1, 625.1 SIM		8015B_GRO_LL - (MOD) GRO		8015B_DRO_LL_CS - HNL Ranges, C10-C24/C24-C36/C38-C18		525.2_PREC - (MOD) 525plus Plus TICs		537.1_DW_PREC - 537.1 Full List		533 - All Analytes		Total Number of containers	
Moanalua Wells P 3		9-Jun-2025		920		W		Water																			
Aiea Wells Units 1&2 (260) P2		9-Jun-2025		1040		G		Water																			
Aiea Gulch Wells P1		9-Jun-2025		1030		G		Water																			
Aiea Gulch Wells P2		9-Jun-2025		1020		G		Water																			
Halawa Wells P1		9-Jun-2025		950		G		Water																			
FB Moanalua Wells		9-Jun-2025		920																							
FB Aiea Wells Units 1&2		9-Jun-2025		1040																							
FB Aiea Gulch Wells P1		9-Jun-2025		1030																							
FB Aiea Gulch Wells P2		9-Jun-2025		1020																							
FB Halawa Wells P1		9-Jun-2025		950																							
Possible Hazard Identification ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological										Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months																	
Deliverable Requested I, II, III, IV, Other (specify)										Special Instructions/QC Requirements																	
Empty Kit Relinquished by:				Date				Time				Method of Shipment.				Fax 9819 2465 3935											
Relinquished by: <i>[Signature]</i>				Date/Time: 6/10/25 1100				Company				Received by: <i>[Signature]</i>				Date/Time: 6/11/25 0930				Company: EEP							
Relinquished by:				Date/Time:				Company				Received by:				Date/Time:				Company:							
Relinquished by:				Date/Time:				Company				Received by:				Date/Time:				Company:							
Custody Seals Intact. ☐ Yes ☐ No				Custody Seal No				Cooler Temperature(s) °C and Other Remarks. 2.1-0.2 = 1.9 °C (65.0°F)																			

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24 6/19/2025

Environment Testing

Client Information		Sampler: Olaf Happe / Sean R. Kofsky		Lab PM: Arada, Rachele		Carrier Tracking No(s): 380-28005-2757 1		
Client Contact: Kirk Iwamoto		Phone: +1 808 748 5840		E-Mail: Rachele Arada@et.eurofinsus.com		Page: Page 1 of 1		
Company: City & County of Honolulu		PWSID:		Analysis Requested:		Job #:		
Address: 630 South Beretania Street Chemistry Lab		Due Date Requested:		Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) 625.1, 625.1 SIM 8015B_GRO_LL - (MOD) GRO 8015B_DRO_LL_CS - HNL Ranges: C10-C24/C24-C38/C38-C18 525.2_PREC - (MOD) 525plus Plus TICs 537.1_DW_PREC - 537.1 Full List 533 - All Analytes Total Number of containers		Preservation Codes: R - NaThioSO4 RA - NaThioHCl Q - Na2SO3 QA - Na2SO3/HCl Y - Trizma I - NH4 Acetate		
City: Honolulu		TAT Requested (days):				Other:		
State/Zip: HI, 96843		Compliance Project: ☐ Yes ☐ No						
Phone: 808-748-5840 (Tel)		PO #: C20525101 exp 05312023						
Email: kiwamoto@hbws.org		WO #:						
Project Name: RED-HILL/HBWS Sites Event Desc: RUSH Weekly Red Hill		Project #: 38001111						
Site: Hawaii		SSOW#:						
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=tissue, A=air)	Special Instructions/Note:		
				Preservation Code:				
Moanalua Wells P 3		9-Jun-2025	920	W	Water	3	3	chlorinated
Aiea Wells Units 1&2 (260) P2		9-Jun-2025	1040	W	Water	3	3	
Aiea Gulch Wells P1		9-Jun-2025	1030	W	Water	3	3	chlorinated
Aiea Gulch Wells P2		9-Jun-2025	1020	W	Water	3	3	chlorinated
Halawa Wells P1		9-Jun-2025	950	W	Water	3	3	
FB Moanalua Wells		9-Jun-2025	920			1	1	
FB Aiea Wells Units 1&2		9-Jun-2025	1040			1	1	
FB Aiea Gulch Wells P1		9-Jun-2025	1030			1	1	
FB Aiea Gulch Wells P2		9-Jun-2025	1020			1	1	
FB Halawa Wells P1		9-Jun-2025	950			1	1	
Possible Hazard Identification ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological				Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months				
Deliverable Requested I, II, III, IV, Other (specify)				Special Instructions/QC Requirements				
Empty Kit Relinquished by		Date		Time		Method of Shipment:		
Relinquished by: [Signature]		Date/Time: 6-10-25 1100		Company		Received by: [Signature]		
Relinquished by:		Date/Time:		Company		Received by:		
Relinquished by:		Date/Time:		Company		Received by:		
Custody Seals Intact: ☐ Yes ☐ No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks: 030A 2-5 to 0-2.5 C				

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 10JUN25
ACTWGT 62.00 LB
CAD 258050552/INET4535

BILL RECIPIENT

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

POMONA CA 91768

(626) 386-1100

REF

INV

PO:

DEPT:



FedEx
Express



J2532504810107

2 of 7

WED - 11 JUN 10:30A

PRIORITY OVERNIGHT

MPS#

0263

8819 2465 3946

Mstr# 8819 2465 3935

0201

91768

WM ONTA

CA-US ONT



After printing this label:
CONSIGNEE COPY - PLEASE PLACE IN FRONT OF POUCH
1. Fold the printed page along the horizontal line
2. Place label in shipping pouch and affix it to your shipment.

Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-154977-1

SDG Number: PFAS: Moanalua Wells P3/Aiea Wells P2/Aiea Gulch Wells P1/P2/ Halawa Wellls P1

Login Number: 154977

List Source: Eurofins Eaton Analytical Pomona

List Number: 1

Creator: Ngo, Theodore

Question	Answer	Comment
The coolers custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
Samples were received on ice.	True	
Cooler(s) Temperature is acceptable.	True	
Cooler(s) Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and is legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
CIO4 headspace requirement met (>50% for CA, >30% for other states).	N/A	
Samples do not require splitting or compositing.	True	
Container provided by EEA	True	