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ANALYTICAL REPORT

PREPARED FOR

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

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JOB DESCRIPTION

RED-HILL
PFAS: Halawa Wells Units 1&2 P1

JOB NUMBER

380-190177-1

Eurofins Pomona

Job Notes

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

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

Compliance Statement

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

Authorization



Authorized for release by
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Definitions/Glossary

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

Job ID: 380-190177-1
SDG: PFAS: Halawa Wells Units 1&2 P1

Qualifiers

LCMS

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

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

Job ID: 380-190177-1

Job ID: 380-190177-1

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Job Narrative 380-190177-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt

The samples were received on 12/31/2025 9:57 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.3°C.

PFAS

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

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Detection Summary

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

Job ID: 380-190177-1
SDG: PFAS: Halawa Wells Units 1&2 P1

Client Sample ID: HALAWA WELLS UNITS 1 & 2 P1
(331-206-TP065)
PWSID Number: HI0000331

Lab Sample ID: 380-190177-1

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanesulfonic acid (PFHxS)	2.5		2.0	ng/L	1		533	Total/NA
Perfluorooctanesulfonic acid (PFOS)	2.3		2.0	ng/L	1		533	Total/NA
Perfluoropentanoic acid (PFPeA)	2.0		2.0	ng/L	1		533	Total/NA
Perfluorooctanesulfonic acid (PFOS)	2.8		2.0	ng/L	1		537.1	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	2.9		2.0	ng/L	1		537.1	Total/NA

Client Sample ID: FB HALAWA WELLS UNITS 1 & 2
(331-206-TP065)
PWSID Number: HI0000331

Lab Sample ID: 380-190177-2

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: 380-190177-1
SDG: PFAS: Halawa Wells Units 1&2 P1

**Client Sample ID: HALAWA WELLS UNITS 1 & 2 P1
(331-206-TP065)**

Lab Sample ID: 380-190177-1

Date Collected: 12/29/25 10:19

Matrix: Water

Date Received: 12/31/25 09:57

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		01/02/26 06:37	01/02/26 23:07	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		01/02/26 06:37	01/02/26 23:07	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		01/02/26 06:37	01/02/26 23:07	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		01/02/26 06:37	01/02/26 23:07	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		01/02/26 06:37	01/02/26 23:07	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		01/02/26 06:37	01/02/26 23:07	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		01/02/26 06:37	01/02/26 23:07	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		01/02/26 06:37	01/02/26 23:07	1
Perfluorohexanesulfonic acid (PFHxS)	2.5		2.0	ng/L		01/02/26 06:37	01/02/26 23:07	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		01/02/26 06:37	01/02/26 23:07	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		01/02/26 06:37	01/02/26 23:07	1
Perfluorooctanesulfonic acid (PFOS)	2.3		2.0	ng/L		01/02/26 06:37	01/02/26 23:07	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		01/02/26 06:37	01/02/26 23:07	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		01/02/26 06:37	01/02/26 23:07	1
Perfluorobutanoic acid (PFBA)	<2.0		2.0	ng/L		01/02/26 06:37	01/02/26 23:07	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0	ng/L		01/02/26 06:37	01/02/26 23:07	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0	ng/L		01/02/26 06:37	01/02/26 23:07	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0	ng/L		01/02/26 06:37	01/02/26 23:07	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		2.0	ng/L		01/02/26 06:37	01/02/26 23:07	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<2.0		2.0	ng/L		01/02/26 06:37	01/02/26 23:07	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		01/02/26 06:37	01/02/26 23:07	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		01/02/26 06:37	01/02/26 23:07	1
Perfluoropentanoic acid (PFPeA)	2.0		2.0	ng/L		01/02/26 06:37	01/02/26 23:07	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		01/02/26 06:37	01/02/26 23:07	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		01/02/26 06:37	01/02/26 23:07	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	66		50 - 200	01/02/26 06:37	01/02/26 23:07	1
13C6 PFDA	77		50 - 200	01/02/26 06:37	01/02/26 23:07	1
13C5 PFHxA	78		50 - 200	01/02/26 06:37	01/02/26 23:07	1
13C4 PFHpA	77		50 - 200	01/02/26 06:37	01/02/26 23:07	1
13C8 PFOA	76		50 - 200	01/02/26 06:37	01/02/26 23:07	1
13C9 PFNA	73		50 - 200	01/02/26 06:37	01/02/26 23:07	1
13C7 PFUnA	84		50 - 200	01/02/26 06:37	01/02/26 23:07	1
13C2 PFDoA	86		50 - 200	01/02/26 06:37	01/02/26 23:07	1
13C4 PFBA	81		50 - 200	01/02/26 06:37	01/02/26 23:07	1
13C5 PFPeA	82		50 - 200	01/02/26 06:37	01/02/26 23:07	1
13C3 PFBS	103		50 - 200	01/02/26 06:37	01/02/26 23:07	1

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Client Sample Results

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

Job ID: 380-190177-1
SDG: PFAS: Halawa Wells Units 1&2 P1

**Client Sample ID: HALAWA WELLS UNITS 1 & 2 P1
(331-206-TP065)**

Lab Sample ID: 380-190177-1

Date Collected: 12/29/25 10:19

Matrix: Water

Date Received: 12/31/25 09:57

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	103		50 - 200	01/02/26 06:37	01/02/26 23:07	1
13C8 PFOS	106		50 - 200	01/02/26 06:37	01/02/26 23:07	1
13C2-4:2-FTS	126		50 - 200	01/02/26 06:37	01/02/26 23:07	1
13C2-6:2-FTS	118		50 - 200	01/02/26 06:37	01/02/26 23:07	1
13C2-8:2-FTS	119		50 - 200	01/02/26 06:37	01/02/26 23:07	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		01/02/26 02:20	01/02/26 19:25	1
Perfluorooctanesulfonic acid (PFOS)	2.8		2.0	ng/L		01/02/26 02:20	01/02/26 19:25	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		01/02/26 02:20	01/02/26 19:25	1
N-methylperfluorooctanesulfonamide acetic acid (NMeFOSAA)	<2.0		2.0	ng/L		01/02/26 02:20	01/02/26 19:25	1
N-ethylperfluorooctanesulfonamide acetic acid (NEtFOSAA)	<2.0		2.0	ng/L		01/02/26 02:20	01/02/26 19:25	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		01/02/26 02:20	01/02/26 19:25	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		01/02/26 02:20	01/02/26 19:25	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		01/02/26 02:20	01/02/26 19:25	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		01/02/26 02:20	01/02/26 19:25	1
Perfluorohexanesulfonic acid (PFHxS)	2.9		2.0	ng/L		01/02/26 02:20	01/02/26 19:25	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		01/02/26 02:20	01/02/26 19:25	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		01/02/26 02:20	01/02/26 19:25	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		01/02/26 02:20	01/02/26 19:25	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0	ng/L		01/02/26 02:20	01/02/26 19:25	1
Perfluorotridecanoic acid (PFTTrDA)	<2.0		2.0	ng/L		01/02/26 02:20	01/02/26 19:25	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	<2.0		2.0	ng/L		01/02/26 02:20	01/02/26 19:25	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		01/02/26 02:20	01/02/26 19:25	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		01/02/26 02:20	01/02/26 19:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	119		70 - 130	01/02/26 02:20	01/02/26 19:25	1
13C2 PFHxA	118		70 - 130	01/02/26 02:20	01/02/26 19:25	1
13C2 PFDA	112		70 - 130	01/02/26 02:20	01/02/26 19:25	1
13C3-GenX	113		70 - 130	01/02/26 02:20	01/02/26 19:25	1

**Client Sample ID: FB HALAWA WELLS UNITS 1 & 2
(331-206-TP065)**

Lab Sample ID: 380-190177-2

Date Collected: 12/29/25 10:19

Matrix: Water

Date Received: 12/31/25 09:57

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		01/02/26 06:37	01/02/26 23:16	1

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Client Sample Results

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

Job ID: 380-190177-1
SDG: PFAS: Halawa Wells Units 1&2 P1

**Client Sample ID: FB HALAWA WELLS UNITS 1 & 2
(331-206-TP065)**

Lab Sample ID: 380-190177-2

Date Collected: 12/29/25 10:19

Matrix: Water

Date Received: 12/31/25 09:57

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
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9CI-PF3ONS)	<2.0		2.0	ng/L		01/02/26 06:37	01/02/26 23:16	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		01/02/26 06:37	01/02/26 23:16	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		01/02/26 06:37	01/02/26 23:16	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		01/02/26 06:37	01/02/26 23:16	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		01/02/26 06:37	01/02/26 23:16	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		01/02/26 06:37	01/02/26 23:16	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		01/02/26 06:37	01/02/26 23:16	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		01/02/26 06:37	01/02/26 23:16	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		01/02/26 06:37	01/02/26 23:16	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		01/02/26 06:37	01/02/26 23:16	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		01/02/26 06:37	01/02/26 23:16	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		01/02/26 06:37	01/02/26 23:16	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		01/02/26 06:37	01/02/26 23:16	1
Perfluorobutanoic acid (PFBA)	<2.0		2.0	ng/L		01/02/26 06:37	01/02/26 23:16	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0	ng/L		01/02/26 06:37	01/02/26 23:16	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0	ng/L		01/02/26 06:37	01/02/26 23:16	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0	ng/L		01/02/26 06:37	01/02/26 23:16	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		2.0	ng/L		01/02/26 06:37	01/02/26 23:16	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<2.0		2.0	ng/L		01/02/26 06:37	01/02/26 23:16	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		01/02/26 06:37	01/02/26 23:16	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		01/02/26 06:37	01/02/26 23:16	1
Perfluoropentanoic acid (PFPeA)	<2.0		2.0	ng/L		01/02/26 06:37	01/02/26 23:16	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		01/02/26 06:37	01/02/26 23:16	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		01/02/26 06:37	01/02/26 23:16	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	89		50 - 200	01/02/26 06:37	01/02/26 23:16	1
13C6 PFDA	101		50 - 200	01/02/26 06:37	01/02/26 23:16	1
13C5 PFHxA	100		50 - 200	01/02/26 06:37	01/02/26 23:16	1
13C4 PFHpA	97		50 - 200	01/02/26 06:37	01/02/26 23:16	1
13C8 PFOA	104		50 - 200	01/02/26 06:37	01/02/26 23:16	1
13C9 PFNA	105		50 - 200	01/02/26 06:37	01/02/26 23:16	1
13C7 PFUnA	104		50 - 200	01/02/26 06:37	01/02/26 23:16	1
13C2 PFDoA	99		50 - 200	01/02/26 06:37	01/02/26 23:16	1
13C4 PFBA	105		50 - 200	01/02/26 06:37	01/02/26 23:16	1
13C5 PFPeA	103		50 - 200	01/02/26 06:37	01/02/26 23:16	1
13C3 PFBS	98		50 - 200	01/02/26 06:37	01/02/26 23:16	1
13C3 PFHxS	103		50 - 200	01/02/26 06:37	01/02/26 23:16	1
13C8 PFOS	106		50 - 200	01/02/26 06:37	01/02/26 23:16	1
13C2-4:2-FTS	124		50 - 200	01/02/26 06:37	01/02/26 23:16	1

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Client Sample Results

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

Job ID: 380-190177-1
SDG: PFAS: Halawa Wells Units 1&2 P1

**Client Sample ID: FB HALAWA WELLS UNITS 1 & 2
(331-206-TP065)**

Lab Sample ID: 380-190177-2

Date Collected: 12/29/25 10:19

Matrix: Water

Date Received: 12/31/25 09:57

PWSID Number: HI0000331

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2-6:2-FTS	115		50 - 200	01/02/26 06:37	01/02/26 23:16	1
13C2-8:2-FTS	115		50 - 200	01/02/26 06:37	01/02/26 23:16	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		01/02/26 02:20	01/02/26 19:35	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		01/02/26 02:20	01/02/26 19:35	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		01/02/26 02:20	01/02/26 19:35	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		2.0	ng/L		01/02/26 02:20	01/02/26 19:35	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		2.0	ng/L		01/02/26 02:20	01/02/26 19:35	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		01/02/26 02:20	01/02/26 19:35	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		01/02/26 02:20	01/02/26 19:35	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		01/02/26 02:20	01/02/26 19:35	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		01/02/26 02:20	01/02/26 19:35	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		01/02/26 02:20	01/02/26 19:35	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		01/02/26 02:20	01/02/26 19:35	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		01/02/26 02:20	01/02/26 19:35	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		01/02/26 02:20	01/02/26 19:35	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0	ng/L		01/02/26 02:20	01/02/26 19:35	1
Perfluorotridecanoic acid (PFTrDA)	<2.0		2.0	ng/L		01/02/26 02:20	01/02/26 19:35	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		01/02/26 02:20	01/02/26 19:35	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		01/02/26 02:20	01/02/26 19:35	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		01/02/26 02:20	01/02/26 19:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	109		70 - 130	01/02/26 02:20	01/02/26 19:35	1
13C2 PFHxA	114		70 - 130	01/02/26 02:20	01/02/26 19:35	1
13C2 PFDA	103		70 - 130	01/02/26 02:20	01/02/26 19:35	1
13C3-GenX	108		70 - 130	01/02/26 02:20	01/02/26 19:35	1

Action Limit Summary

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

Job ID: 380-190177-1
SDG: PFAS: Halawa Wells Units 1&2 P1

Client Sample ID: HALAWA WELLS UNITS 1 & 2 P1
(331-206-TP065)
PWSID Number: HI0000331

Lab Sample ID: 380-190177-1

Compliance Check

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

Analyte	Result	Qualifier	Unit	EPAMCL	RL	Method	Prep Type
				Limit			
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		ng/L	10	2.0	533	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	2.5		ng/L	10	2.0	533	Total/NA
Perfluorononanoic acid (PFNA)	<2.0		ng/L	10	2.0	533	Total/NA
Perfluorooctanesulfonic acid (PFOS)	2.3		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)	2.8		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)	2.9		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 UNITS 1 & 2
(331-206-TP065)
PWSID Number: HI0000331

Lab Sample ID: 380-190177-2

Compliance Check

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

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

Surrogate Summary

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

Job ID: 380-190177-1
 SDG: PFAS: Halawa Wells Units 1&2 P1

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)
380-190078-B-1-A MS	Matrix Spike	106	118	109	109
380-190078-C-1-A MSD	Matrix Spike Duplicate	113	114	108	109
380-190177-1	HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP065)	119	118	112	113
380-190177-2	FB HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	109	114	103	108
LCS 380-195448/22-A	Lab Control Sample	102	105	107	95
MBL 380-195448/20-A	Method Blank	106	110	111	104
MRL 380-195448/21-A	Lab Control Sample	110	119	109	109

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: 380-190177-1
SDG: PFAS: Halawa Wells Units 1&2 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)	PFDoA (50-200)
380-190177-1	HALAWA WELLS UNITS 1 & 2 P1 (66	77	78	77	76	73	84	86
380-190177-2	FB HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	89	101	100	97	104	105	104	99
380-190182-E-1-A MS	Matrix Spike	97	107	105	97	103	107	108	103
380-190182-F-1-A MSD	Matrix Spike Duplicate	94	100	97	95	96	101	103	100
LCS 380-195460/24-A	Lab Control Sample	100	104	102	100	102	101	108	101
MBL 380-195460/22-A	Method Blank	87	98	102	105	104	101	104	100
MRL 380-195460/23-A	Lab Control Sample	87	99	94	99	102	101	99	98

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)
380-190177-1	HALAWA WELLS UNITS 1 & 2 P1 (81	82	103	103	106	126	118	119
380-190177-2	FB HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	105	103	98	103	106	124	115	115
380-190182-E-1-A MS	Matrix Spike	99	101	101	102	105	116	107	105
380-190182-F-1-A MSD	Matrix Spike Duplicate	103	103	103	105	102	118	111	105
LCS 380-195460/24-A	Lab Control Sample	104	104	103	104	101	113	113	105
MBL 380-195460/22-A	Method Blank	102	107	105	102	102	116	112	106
MRL 380-195460/23-A	Lab Control Sample	101	105	98	102	101	117	109	106

Surrogate Legend

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

QC Sample Results

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

Job ID: 380-190177-1
SDG: PFAS: Halawa Wells Units 1&2 P1

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

Lab Sample ID: MBL 380-195460/22-A
Matrix: Water
Analysis Batch: 195607

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 195460

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<0.30		2.0	ng/L		01/02/26 06:37	01/02/26 20:15	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<0.30		2.0	ng/L		01/02/26 06:37	01/02/26 20:15	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.60		2.0	ng/L		01/02/26 06:37	01/02/26 20:15	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<1.0		2.0	ng/L		01/02/26 06:37	01/02/26 20:15	1
Perfluorobutanesulfonic acid (PFBS)	<0.37		2.0	ng/L		01/02/26 06:37	01/02/26 20:15	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	ng/L		01/02/26 06:37	01/02/26 20:15	1
Perfluorododecanoic acid (PFDoA)	<0.54		2.0	ng/L		01/02/26 06:37	01/02/26 20:15	1
Perfluoroheptanoic acid (PFHpA)	<0.39		2.0	ng/L		01/02/26 06:37	01/02/26 20:15	1
Perfluorohexanesulfonic acid (PFHxS)	<0.32		2.0	ng/L		01/02/26 06:37	01/02/26 20:15	1
Perfluorohexanoic acid (PFHxA)	<0.46		2.0	ng/L		01/02/26 06:37	01/02/26 20:15	1
Perfluorononanoic acid (PFNA)	<0.40		2.0	ng/L		01/02/26 06:37	01/02/26 20:15	1
Perfluorooctanesulfonic acid (PFOS)	<0.43		2.0	ng/L		01/02/26 06:37	01/02/26 20:15	1
Perfluorooctanoic acid (PFOA)	<0.38		2.0	ng/L		01/02/26 06:37	01/02/26 20:15	1
Perfluoroundecanoic acid (PFUnA)	<0.42		2.0	ng/L		01/02/26 06:37	01/02/26 20:15	1
Perfluorobutanoic acid (PFBA)	<0.69		2.0	ng/L		01/02/26 06:37	01/02/26 20:15	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<0.38		2.0	ng/L		01/02/26 06:37	01/02/26 20:15	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<0.37		2.0	ng/L		01/02/26 06:37	01/02/26 20:15	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<0.48		2.0	ng/L		01/02/26 06:37	01/02/26 20:15	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.47		2.0	ng/L		01/02/26 06:37	01/02/26 20:15	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<0.25		2.0	ng/L		01/02/26 06:37	01/02/26 20:15	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.46		2.0	ng/L		01/02/26 06:37	01/02/26 20:15	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.15		2.0	ng/L		01/02/26 06:37	01/02/26 20:15	1
Perfluoropentanoic acid (PFPeA)	<0.38		2.0	ng/L		01/02/26 06:37	01/02/26 20:15	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.36		2.0	ng/L		01/02/26 06:37	01/02/26 20:15	1
Perfluoropentanesulfonic acid (PFPeS)	<0.39		2.0	ng/L		01/02/26 06:37	01/02/26 20:15	1

Isotope Dilution	MBL %Recovery	MBL Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	87		50 - 200	01/02/26 06:37	01/02/26 20:15	1
13C6 PFDA	98		50 - 200	01/02/26 06:37	01/02/26 20:15	1
13C5 PFHxA	102		50 - 200	01/02/26 06:37	01/02/26 20:15	1
13C4 PFHpA	105		50 - 200	01/02/26 06:37	01/02/26 20:15	1
13C8 PFOA	104		50 - 200	01/02/26 06:37	01/02/26 20:15	1
13C9 PFNA	101		50 - 200	01/02/26 06:37	01/02/26 20:15	1
13C7 PFUnA	104		50 - 200	01/02/26 06:37	01/02/26 20:15	1
13C2 PFDoA	100		50 - 200	01/02/26 06:37	01/02/26 20:15	1
13C4 PFBA	102		50 - 200	01/02/26 06:37	01/02/26 20:15	1
13C5 PFPeA	107		50 - 200	01/02/26 06:37	01/02/26 20:15	1
13C3 PFBS	105		50 - 200	01/02/26 06:37	01/02/26 20:15	1
13C3 PFHxS	102		50 - 200	01/02/26 06:37	01/02/26 20:15	1

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QC Sample Results

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

Job ID: 380-190177-1
SDG: PFAS: Halawa Wells Units 1&2 P1

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

Lab Sample ID: MBL 380-195460/22-A
Matrix: Water
Analysis Batch: 195607

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 195460

<i>Isotope Dilution</i>	<i>MBL</i>	<i>MBL</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
	<i>%Recovery</i>	<i>Qualifier</i>				
13C8 PFOS	102		50 - 200	01/02/26 06:37	01/02/26 20:15	1
13C2-4:2-FTS	116		50 - 200	01/02/26 06:37	01/02/26 20:15	1
13C2-6:2-FTS	112		50 - 200	01/02/26 06:37	01/02/26 20:15	1
13C2-8:2-FTS	106		50 - 200	01/02/26 06:37	01/02/26 20:15	1

Lab Sample ID: LCS 380-195460/24-A
Matrix: Water
Analysis Batch: 195607

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 195460

<i>Analyte</i>	<i>Spike</i>	<i>LCS</i>	<i>LCS</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec</i>
	<i>Added</i>	<i>Result</i>	<i>Qualifier</i>			<i>Limits</i>	
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	120	101		ng/L		84	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	120	108		ng/L		90	70 - 130
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	120	113		ng/L		94	70 - 130
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	120	110		ng/L		92	70 - 130
Perfluorobutanesulfonic acid (PFBS)	120	116		ng/L		96	70 - 130
Perfluorodecanoic acid (PFDA)	120	114		ng/L		95	70 - 130
Perfluorododecanoic acid (PFDoA)	120	119		ng/L		99	70 - 130
Perfluoroheptanoic acid (PFHpA)	120	114		ng/L		95	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	120	113		ng/L		94	70 - 130
Perfluorohexanoic acid (PFHxA)	120	115		ng/L		96	70 - 130
Perfluorononanoic acid (PFNA)	120	117		ng/L		97	70 - 130
Perfluorooctanesulfonic acid (PFOS)	120	114		ng/L		95	70 - 130
Perfluorooctanoic acid (PFOA)	120	115		ng/L		96	70 - 130
Perfluoroundecanoic acid (PFUnA)	120	114		ng/L		95	70 - 130
Perfluorobutanoic acid (PFBA)	120	113		ng/L		94	70 - 130
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	120	118		ng/L		98	70 - 130
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	120	110		ng/L		91	70 - 130
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	120	115		ng/L		96	70 - 130
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	120	123		ng/L		103	70 - 130
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	120	121		ng/L		101	70 - 130
Perfluoro-3-methoxypropanoic acid (PFMPA)	120	117		ng/L		98	70 - 130
Perfluoro-4-methoxybutanoic acid (PFMBA)	120	97.1		ng/L		81	70 - 130
Perfluoropentanoic acid (PFPeA)	120	118		ng/L		98	70 - 130
Perfluoroheptanesulfonic acid (PFHpS)	120	121		ng/L		100	70 - 130

QC Sample Results

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

Job ID: 380-190177-1
SDG: PFAS: Halawa Wells Units 1&2 P1

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

Lab Sample ID: LCS 380-195460/24-A
Matrix: Water
Analysis Batch: 195607

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 195460

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Perfluoropentanesulfonic acid (PFPeS)	120	114		ng/L		95	70 - 130	
LCS LCS								
Isotope Dilution	%Recovery	Qualifier						Limits
13C3 HFPO-DA	100							50 - 200
13C6 PFDA	104							50 - 200
13C5 PFHxA	102							50 - 200
13C4 PFHpA	100							50 - 200
13C8 PFOA	102							50 - 200
13C9 PFNA	101							50 - 200
13C7 PFUnA	108							50 - 200
13C2 PFDoA	101							50 - 200
13C4 PFBA	104							50 - 200
13C5 PFPeA	104							50 - 200
13C3 PFBS	103							50 - 200
13C3 PFHxS	104							50 - 200
13C8 PFOS	101							50 - 200
13C2-4:2-FTS	113							50 - 200
13C2-6:2-FTS	113							50 - 200
13C2-8:2-FTS	105							50 - 200

Lab Sample ID: MRL 380-195460/23-A
Matrix: Water
Analysis Batch: 195607

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 195460

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.00	1.87	J	ng/L		93	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	2.00	2.12	J	ng/L		106	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	2.00	1.99	J	ng/L		99	50 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	2.00	2.11	J	ng/L		105	50 - 150
Perfluorobutanesulfonic acid (PFBS)	2.00	2.28	J	ng/L		114	50 - 150
Perfluorodecanoic acid (PFDA)	2.00	2.08	J	ng/L		104	50 - 150
Perfluorododecanoic acid (PFDoA)	2.00	2.19	J	ng/L		109	50 - 150
Perfluoroheptanoic acid (PFHpA)	2.00	2.13	J	ng/L		106	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	2.00	2.16	J	ng/L		108	50 - 150
Perfluorohexanoic acid (PFHxA)	2.00	2.27	J	ng/L		113	50 - 150
Perfluorononanoic acid (PFNA)	2.00	2.10	J	ng/L		105	50 - 150
Perfluorooctanesulfonic acid (PFOS)	2.00	2.03	J	ng/L		102	50 - 150
Perfluorooctanoic acid (PFOA)	2.00	2.09	J	ng/L		104	50 - 150
Perfluoroundecanoic acid (PFUnA)	2.00	2.17	J	ng/L		108	50 - 150
Perfluorobutanoic acid (PFBA)	2.00	2.25	J	ng/L		112	50 - 150

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QC Sample Results

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

Job ID: 380-190177-1
SDG: PFAS: Halawa Wells Units 1&2 P1

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

Lab Sample ID: MRL 380-195460/23-A

Matrix: Water

Analysis Batch: 195607

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 195460

Analyte	Spike Added	MRL	MRL	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	2.00	2.26	J	ng/L		113	50 - 150
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	2.00	2.23	J	ng/L		111	50 - 150
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	2.00	2.20	J	ng/L		110	50 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	2.00	2.21	J	ng/L		110	50 - 150
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	2.00	2.47	J	ng/L		123	50 - 150
Perfluoro-3-methoxypropanoic acid (PFMPA)	2.00	2.08	J	ng/L		104	50 - 150
Perfluoro-4-methoxybutanoic acid (PFMBA)	2.00	1.76	J	ng/L		88	50 - 150
Perfluoropentanoic acid (PFPeA)	2.00	2.26	J	ng/L		113	50 - 150
Perfluoroheptanesulfonic acid (PFHpS)	2.00	2.08	J	ng/L		104	50 - 150
Perfluoropentanesulfonic acid (PFPeS)	2.00	1.92	J	ng/L		96	50 - 150

Isotope Dilution	MRL MRL		Limits
	%Recovery	Qualifier	
13C3 HFPO-DA	87		50 - 200
13C6 PFDA	99		50 - 200
13C5 PFHxA	94		50 - 200
13C4 PFHpA	99		50 - 200
13C8 PFOA	102		50 - 200
13C9 PFNA	101		50 - 200
13C7 PFUnA	99		50 - 200
13C2 PFDoA	98		50 - 200
13C4 PFBA	101		50 - 200
13C5 PFPeA	105		50 - 200
13C3 PFBS	98		50 - 200
13C3 PFHxS	102		50 - 200
13C8 PFOS	101		50 - 200
13C2-4:2-FTS	117		50 - 200
13C2-6:2-FTS	109		50 - 200
13C2-8:2-FTS	106		50 - 200

Lab Sample ID: 380-190182-E-1-A MS

Matrix: Water

Analysis Batch: 195607

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 195460

Analyte	Sample Result	Sample Qualifier	Spike Added	MS	MS	Unit	D	%Rec	%Rec Limits
				Result	Qualifier				
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		121	97.3		ng/L		81	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		121	102		ng/L		85	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		121	111		ng/L		92	70 - 130

QC Sample Results

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

Job ID: 380-190177-1
SDG: PFAS: Halawa Wells Units 1&2 P1

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

Lab Sample ID: 380-190182-E-1-A MS

Client Sample ID: Matrix Spike

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 195607

Prep Batch: 195460

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier	Added	Result	Qualifier				
Hexafluoropropylene Oxide	<2.0		121	110		ng/L		91	70 - 130
Dimer Acid (HFPO-DA/GenX)									
Perfluorobutanesulfonic acid (PFBS)	<2.0		121	118		ng/L		98	70 - 130
Perfluorodecanoic acid (PFDA)	<2.0		121	113		ng/L		93	70 - 130
Perfluorododecanoic acid (PFDoA)	<2.0		121	112		ng/L		93	70 - 130
Perfluoroheptanoic acid (PFHpA)	<2.0		121	112		ng/L		93	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	<2.0		121	114		ng/L		94	70 - 130
Perfluorohexanoic acid (PFHxA)	<2.0		121	110		ng/L		91	70 - 130
Perfluorononanoic acid (PFNA)	<2.0		121	109		ng/L		91	70 - 130
Perfluorooctanesulfonic acid (PFOS)	<2.0		121	110		ng/L		91	70 - 130
Perfluorooctanoic acid (PFOA)	<2.0		121	114		ng/L		94	70 - 130
Perfluoroundecanoic acid (PFUnA)	<2.0		121	114		ng/L		94	70 - 130
Perfluorobutanoic acid (PFBA)	<2.0		121	111		ng/L		92	70 - 130
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		121	112		ng/L		93	70 - 130
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		121	108		ng/L		89	70 - 130
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		121	121		ng/L		100	70 - 130
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		121	96.7		ng/L		80	70 - 130
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<2.0		121	120		ng/L		99	70 - 130
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		121	109		ng/L		90	70 - 130
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		121	89.6		ng/L		74	70 - 130
Perfluoropentanoic acid (PFPeA)	<2.0		121	113		ng/L		93	70 - 130
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		121	115		ng/L		95	70 - 130
Perfluoropentanesulfonic acid (PFPeS)	<2.0		121	113		ng/L		94	70 - 130

Isotope Dilution	MS MS		Limits
	%Recovery	Qualifier	
13C3 HFPO-DA	97		50 - 200
13C6 PFDA	107		50 - 200
13C5 PFHxA	105		50 - 200
13C4 PFHpA	97		50 - 200
13C8 PFOA	103		50 - 200
13C9 PFNA	107		50 - 200
13C7 PFUnA	108		50 - 200
13C2 PFDoA	103		50 - 200
13C4 PFBA	99		50 - 200
13C5 PFPeA	101		50 - 200
13C3 PFBS	101		50 - 200
13C3 PFHxS	102		50 - 200
13C8 PFOS	105		50 - 200

QC Sample Results

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

Job ID: 380-190177-1
SDG: PFAS: Halawa Wells Units 1&2 P1

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

Lab Sample ID: 380-190182-E-1-A MS
Matrix: Water
Analysis Batch: 195607

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 195460

<i>Isotope Dilution</i>	<i>MS MS</i>	<i>Limits</i>
<i>%Recovery</i>	<i>Qualifier</i>	
13C2-4:2-FTS	116	50 - 200
13C2-6:2-FTS	107	50 - 200
13C2-8:2-FTS	105	50 - 200

Lab Sample ID: 380-190182-F-1-A MSD
Matrix: Water
Analysis Batch: 195607

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 195460

<i>Analyte</i>	<i>Sample</i>	<i>Sample</i>	<i>Spike</i>	<i>MSD MSD</i>		<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec</i>	<i>RPD</i>	<i>Limit</i>
	<i>Result</i>	<i>Qualifier</i>	<i>Added</i>	<i>Result</i>	<i>Qualifier</i>						
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		121	99.3		ng/L		82	70 - 130	2	30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		121	106		ng/L		88	70 - 130	4	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		121	108		ng/L		90	70 - 130	2	30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		121	112		ng/L		93	70 - 130	2	30
Perfluorobutanesulfonic acid (PFBS)	<2.0		121	113		ng/L		94	70 - 130	4	30
Perfluorodecanoic acid (PFDA)	<2.0		121	113		ng/L		94	70 - 130	0	30
Perfluorododecanoic acid (PFDoA)	<2.0		121	110		ng/L		92	70 - 130	2	30
Perfluoroheptanoic acid (PFHpA)	<2.0		121	110		ng/L		91	70 - 130	2	30
Perfluorohexanesulfonic acid (PFHxS)	<2.0		121	107		ng/L		88	70 - 130	6	30
Perfluorohexanoic acid (PFHxA)	<2.0		121	112		ng/L		92	70 - 130	1	30
Perfluorononanoic acid (PFNA)	<2.0		121	111		ng/L		92	70 - 130	1	30
Perfluorooctanesulfonic acid (PFOS)	<2.0		121	111		ng/L		92	70 - 130	1	30
Perfluorooctanoic acid (PFOA)	<2.0		121	115		ng/L		95	70 - 130	1	30
Perfluoroundecanoic acid (PFUnA)	<2.0		121	113		ng/L		94	70 - 130	1	30
Perfluorobutanoic acid (PFBA)	<2.0		121	109		ng/L		91	70 - 130	2	30
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		121	115		ng/L		95	70 - 130	2	30
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		121	107		ng/L		89	70 - 130	1	30
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		121	112		ng/L		93	70 - 130	8	30
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		121	106		ng/L		88	70 - 130	9	30
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<2.0		121	120		ng/L		100	70 - 130	0	30
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		121	110		ng/L		91	70 - 130	2	30
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		121	97.5		ng/L		81	70 - 130	9	30
Perfluoropentanoic acid (PFPeA)	<2.0		121	112		ng/L		93	70 - 130	0	30
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		121	114		ng/L		95	70 - 130	0	30
Perfluoropentanesulfonic acid (PFPeS)	<2.0		121	108		ng/L		89	70 - 130	5	30

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QC Sample Results

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

Job ID: 380-190177-1
SDG: PFAS: Halawa Wells Units 1&2 P1

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

Isotope Dilution	MSD MSD		Limits
	%Recovery	Qualifier	
13C3 HFPO-DA	94		50 - 200
13C6 PFDA	100		50 - 200
13C5 PFHxA	97		50 - 200
13C4 PFHpA	95		50 - 200
13C8 PFOA	96		50 - 200
13C9 PFNA	101		50 - 200
13C7 PFUnA	103		50 - 200
13C2 PFDoA	100		50 - 200
13C4 PFBA	103		50 - 200
13C5 PFPeA	103		50 - 200
13C3 PFBS	103		50 - 200
13C3 PFHxS	105		50 - 200
13C8 PFOS	102		50 - 200
13C2-4:2-FTS	118		50 - 200
13C2-6:2-FTS	111		50 - 200
13C2-8:2-FTS	105		50 - 200

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

Lab Sample ID: MBL 380-195448/20-A
Matrix: Water
Analysis Batch: 195551

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 195448

Analyte	MBL MBL		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<1.0		2.0	ng/L		01/02/26 02:20	01/02/26 16:04	1
Perfluorooctanesulfonic acid (PFOS)	<0.43		2.0	ng/L		01/02/26 02:20	01/02/26 16:04	1
Perfluoroundecanoic acid (PFUnA)	<0.42		2.0	ng/L		01/02/26 02:20	01/02/26 16:04	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.58		2.0	ng/L		01/02/26 02:20	01/02/26 16:04	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.42		2.0	ng/L		01/02/26 02:20	01/02/26 16:04	1
Perfluorohexanoic acid (PFHxA)	<0.46		2.0	ng/L		01/02/26 02:20	01/02/26 16:04	1
Perfluorododecanoic acid (PFDoA)	<0.54		2.0	ng/L		01/02/26 02:20	01/02/26 16:04	1
Perfluorooctanoic acid (PFOA)	<0.38		2.0	ng/L		01/02/26 02:20	01/02/26 16:04	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	ng/L		01/02/26 02:20	01/02/26 16:04	1
Perfluorohexanesulfonic acid (PFHxS)	<0.32		2.0	ng/L		01/02/26 02:20	01/02/26 16:04	1
Perfluorobutanesulfonic acid (PFBS)	<0.37		2.0	ng/L		01/02/26 02:20	01/02/26 16:04	1
Perfluoroheptanoic acid (PFHpA)	<0.39		2.0	ng/L		01/02/26 02:20	01/02/26 16:04	1
Perfluorononanoic acid (PFNA)	<0.40		2.0	ng/L		01/02/26 02:20	01/02/26 16:04	1
Perfluorotetradecanoic acid (PFTA)	<0.54		2.0	ng/L		01/02/26 02:20	01/02/26 16:04	1
Perfluorotridecanoic acid (PFTTrDA)	<0.36		2.0	ng/L		01/02/26 02:20	01/02/26 16:04	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<0.30		2.0	ng/L		01/02/26 02:20	01/02/26 16:04	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<0.30		2.0	ng/L		01/02/26 02:20	01/02/26 16:04	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.60		2.0	ng/L		01/02/26 02:20	01/02/26 16:04	1

Surrogate	MBL MBL		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
d5-NEtFOSAA	106		70 - 130	01/02/26 02:20	01/02/26 16:04	1
13C2 PFHxA	110		70 - 130	01/02/26 02:20	01/02/26 16:04	1
13C2 PFDA	111		70 - 130	01/02/26 02:20	01/02/26 16:04	1

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QC Sample Results

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

Job ID: 380-190177-1
SDG: PFAS: Halawa Wells Units 1&2 P1

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

Lab Sample ID: MBL 380-195448/20-A
Matrix: Water
Analysis Batch: 195551

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 195448

Surrogate	MBL %Recovery	MBL Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3-GenX	104		70 - 130	01/02/26 02:20	01/02/26 16:04	1

Lab Sample ID: LCS 380-195448/22-A
Matrix: Water
Analysis Batch: 195551

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 195448

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Hexafluoropropylene Oxide	25.1	22.1		ng/L		88	70 - 130
Dimer Acid (HFPO-DA/GenX)							
Perfluorooctanesulfonic acid (PFOS)	25.1	27.0		ng/L		108	70 - 130
Perfluoroundecanoic acid (PFUnA)	25.1	26.0		ng/L		104	70 - 130
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	25.1	24.4		ng/L		97	70 - 130
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	25.1	23.9		ng/L		95	70 - 130
Perfluorohexanoic acid (PFHxA)	25.1	24.7		ng/L		99	70 - 130
Perfluorododecanoic acid (PFDoA)	25.1	25.9		ng/L		103	70 - 130
Perfluorooctanoic acid (PFOA)	25.1	24.8		ng/L		99	70 - 130
Perfluorodecanoic acid (PFDA)	25.1	24.4		ng/L		97	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	25.1	28.2		ng/L		113	70 - 130
Perfluorobutanesulfonic acid (PFBS)	25.1	28.6		ng/L		114	70 - 130
Perfluoroheptanoic acid (PFHpA)	25.1	24.8		ng/L		99	70 - 130
Perfluorononanoic acid (PFNA)	25.1	25.4		ng/L		102	70 - 130
Perfluorotetradecanoic acid (PFTA)	25.1	22.5		ng/L		90	70 - 130
Perfluorotridecanoic acid (PFTrDA)	25.1	26.3		ng/L		105	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	25.1	26.4		ng/L		105	70 - 130
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	25.1	24.4		ng/L		97	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	25.1	22.9		ng/L		92	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
d5-NEtFOSAA	102		70 - 130
13C2 PFHxA	105		70 - 130
13C2 PFDA	107		70 - 130
13C3-GenX	95		70 - 130

QC Sample Results

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

Job ID: 380-190177-1
SDG: PFAS: Halawa Wells Units 1&2 P1

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

Lab Sample ID: MRL 380-195448/21-A
Matrix: Water
Analysis Batch: 195551

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 195448

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	2.01	2.04	J	ng/L		102	50 - 150
Perfluorooctanesulfonic acid (PFOS)	2.01	2.22	J	ng/L		110	50 - 150
Perfluoroundecanoic acid (PFUnA)	2.01	2.25	J	ng/L		112	50 - 150
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.01	2.07	J	ng/L		103	50 - 150
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.01	2.11	J	ng/L		105	50 - 150
Perfluorohexanoic acid (PFHxA)	2.01	2.01	J	ng/L		100	50 - 150
Perfluorododecanoic acid (PFDoA)	2.01	2.16	J	ng/L		107	50 - 150
Perfluorooctanoic acid (PFOA)	2.01	2.14	J	ng/L		107	50 - 150
Perfluorodecanoic acid (PFDA)	2.01	2.05	J	ng/L		102	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	2.01	2.18	J	ng/L		109	50 - 150
Perfluorobutanesulfonic acid (PFBS)	2.01	2.19	J	ng/L		109	50 - 150
Perfluoroheptanoic acid (PFHpA)	2.01	2.25	J	ng/L		112	50 - 150
Perfluorononanoic acid (PFNA)	2.01	2.18	J	ng/L		108	50 - 150
Perfluorotetradecanoic acid (PFTA)	2.01	1.51	J	ng/L		75	50 - 150
Perfluorotridecanoic acid (PFTrDA)	2.01	2.11	J	ng/L		105	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	2.01	2.06	J	ng/L		102	50 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.01	1.78	J	ng/L		88	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	2.01	2.11	J	ng/L		105	50 - 150
		MRL	MRL				
Surrogate	%Recovery	Qualifier	Limits				
d5-NEtFOSAA	110		70 - 130				
13C2 PFHxA	119		70 - 130				
13C2 PFDA	109		70 - 130				
13C3-GenX	109		70 - 130				

Lab Sample ID: 380-190078-B-1-A MS
Matrix: Water
Analysis Batch: 195551

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 195448

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		25.1	24.6		ng/L		98	70 - 130
Perfluorooctanesulfonic acid (PFOS)	<2.0		25.1	26.6		ng/L		106	70 - 130
Perfluoroundecanoic acid (PFUnA)	<2.0		25.1	26.0		ng/L		104	70 - 130
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		25.1	24.5		ng/L		97	70 - 130

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QC Association Summary

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

Job ID: 380-190177-1
 SDG: PFAS: Halawa Wells Units 1&2 P1

LCMS

Prep Batch: 195448

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-190177-1	HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP065)	Total/NA	Water	537.1 DW	
380-190177-2	FB HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	Total/NA	Water	537.1 DW	
MBL 380-195448/20-A	Method Blank	Total/NA	Water	537.1 DW	
LCS 380-195448/22-A	Lab Control Sample	Total/NA	Water	537.1 DW	
MRL 380-195448/21-A	Lab Control Sample	Total/NA	Water	537.1 DW	
380-190078-B-1-A MS	Matrix Spike	Total/NA	Water	537.1 DW	
380-190078-C-1-A MSD	Matrix Spike Duplicate	Total/NA	Water	537.1 DW	

Prep Batch: 195460

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-190177-1	HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP065)	Total/NA	Water	533	
380-190177-2	FB HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	Total/NA	Water	533	
MBL 380-195460/22-A	Method Blank	Total/NA	Water	533	
LCS 380-195460/24-A	Lab Control Sample	Total/NA	Water	533	
MRL 380-195460/23-A	Lab Control Sample	Total/NA	Water	533	
380-190182-E-1-A MS	Matrix Spike	Total/NA	Water	533	
380-190182-F-1-A MSD	Matrix Spike Duplicate	Total/NA	Water	533	

Analysis Batch: 195551

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-190177-1	HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP065)	Total/NA	Water	537.1	195448
380-190177-2	FB HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	Total/NA	Water	537.1	195448
MBL 380-195448/20-A	Method Blank	Total/NA	Water	537.1	195448
LCS 380-195448/22-A	Lab Control Sample	Total/NA	Water	537.1	195448
MRL 380-195448/21-A	Lab Control Sample	Total/NA	Water	537.1	195448
380-190078-B-1-A MS	Matrix Spike	Total/NA	Water	537.1	195448
380-190078-C-1-A MSD	Matrix Spike Duplicate	Total/NA	Water	537.1	195448

Analysis Batch: 195607

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-190177-1	HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP065)	Total/NA	Water	533	195460
380-190177-2	FB HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	Total/NA	Water	533	195460
MBL 380-195460/22-A	Method Blank	Total/NA	Water	533	195460
LCS 380-195460/24-A	Lab Control Sample	Total/NA	Water	533	195460
MRL 380-195460/23-A	Lab Control Sample	Total/NA	Water	533	195460
380-190182-E-1-A MS	Matrix Spike	Total/NA	Water	533	195460
380-190182-F-1-A MSD	Matrix Spike Duplicate	Total/NA	Water	533	195460

Lab Chronicle

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

Job ID: 380-190177-1
 SDG: PFAS: Halawa Wells Units 1&2 P1

**Client Sample ID: HALAWA WELLS UNITS 1 & 2 P1
 (331-206-TP065)**

Lab Sample ID: 380-190177-1

Date Collected: 12/29/25 10:19

Matrix: Water

Date Received: 12/31/25 09:57

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			195460	E9PK	EA POM	01/02/26 06:37
Total/NA	Analysis	533		1	195607	SZ9R	EA POM	01/02/26 23:07
Total/NA	Prep	537.1 DW			195448	G9MN	EA POM	01/02/26 02:20
Total/NA	Analysis	537.1		1	195551	SZ9R	EA POM	01/02/26 19:25

**Client Sample ID: FB HALAWA WELLS UNITS 1 & 2
 (331-206-TP065)**

Lab Sample ID: 380-190177-2

Date Collected: 12/29/25 10:19

Matrix: Water

Date Received: 12/31/25 09:57

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			195460	E9PK	EA POM	01/02/26 06:37
Total/NA	Analysis	533		1	195607	SZ9R	EA POM	01/02/26 23:16
Total/NA	Prep	537.1 DW			195448	G9MN	EA POM	01/02/26 02:20
Total/NA	Analysis	537.1		1	195551	SZ9R	EA POM	01/02/26 19:35

Laboratory References:

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

Accreditation/Certification Summary

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

Job ID: 380-190177-1
SDG: PFAS: Halawa Wells Units 1&2 P1

Laboratory: Eurofins Pomona

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

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

- 1
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Method Summary

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

Job ID: 380-190177-1
SDG: PFAS: Halawa Wells Units 1&2 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 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: 380-190177-1
SDG: PFAS: Halawa Wells Units 1&2 P1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	PWSID Number
380-190177-1	HALAWA WELLS UNITS 1 & 2 P1 (331-206-TP065)	Water	12/29/25 10:19	12/31/25 09:57	HI0000331
380-190177-2	FB HALAWA WELLS UNITS 1 & 2 (331-206-TP065)	Water	12/29/25 10:19	12/31/25 09:57	HI0000331

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Monrovia, CA (Suite 100)
 750 Royal Oaks Drive Suite 100
 Monrovia, CA 91016
 Phone (626) 386-1100

Chain of Custody Record



Environment Testing
 America

Client Information Client Contact: kirk iwamoto Phone: +1 808 748 5840 City & County of Honolulu		Lab P#: Lopez, Maria E-Mail: Maria.Lopez@et.eurofins.com		Carrier Tracking No(s): State of Origin:		COC No: Page: Page 1 of 1 Job #:	
Address: 630 South Beretania Street, Chemistry Lab City: Honolulu State, Zip: HI, 96843 Phone: 808-748-5840 (tel) Email: kiwamoto@hbws.org		PWSID: Due Date Requested: TAT Requested (days): Compliance Project: Δ No PO #: C20525101 exp 05312023 WOI #:		Analysis Requested 633 - All Analytes 637.1, DW, PREC - 637.1 Full List 626.2, PREC - (MOD) 626.2 PLUS TICs 8018B_DRO_LL_CS - HNL Ranges: C10-C24/C24-C38/CS-C18 8018B_GRO_LL - (MOD) GRO SUBCONTRACT - 625 PAH Physic LL (EAL) + TICs Perform METHOD (Yes or No) <input checked="" type="checkbox"/>		Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 X - EDTA Y - Trizma Z - other (specify) Other:	
Project Name: RED-HILL/HBWS sites Event Desc: RUSH Weekly Red Hill S#: Project #: 38001111 SSOW#:		Matrix (Preservative, Solvent, Other): Sample Type (C=Comp, G=grab): G Sample Time: 1019 Sample Date: 29-Dec-2025 Preservation Code: Water		Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> Total Number of Containers: 33 Special Instructions/Note:  380-190177 COC		Special Instructions/Note: 380-190177 COC	
Sample Identification Halawa Wells Units 1&2 P1 FB Halawa Wells Units 1&2		Sample Date: 29-Dec-2025 Sample Time: 1019 Sample Date: 29-Dec-2025 Sample Time: 1019		R A Q QA Y I 3 3 1 1		Special Instructions/Note: 380-190177 COC	
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Date/Time: 29-Dec-2025 Date/Time:		Date/Time: 29-Dec-2025 Date/Time:		Date/Time: 29-Dec-2025 Date/Time:	
Empty Kit Relinquished by Relinquished by:		Date: 29-Dec-2025 Date/Time:		Date: 29-Dec-2025 Date/Time:		Date: 29-Dec-2025 Date/Time:	
Custody Seals Intact: Δ Yes Δ No		Date/Time: 29-Dec-2025 Date/Time:		Date/Time: 29-Dec-2025 Date/Time:		Date/Time: 29-Dec-2025 Date/Time:	
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Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-190177-1
SDG Number: PFAS: Halawa Wells Units 1&2 P1

Login Number: 190177

List Number: 1

Creator: Ngo, Theodore

List Source: Eurofins Pomona

Question	Answer	Comment
The coolers custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
Samples were received on ice.	True	
Cooler(s) Temperature is acceptable.	True	
Cooler(s) Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and is legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
ClO4 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	

