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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: Moanalua Wells

JOB NUMBER

380-189499-1

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: 380-189499-1
SDG: PFAS: Moanalua Wells

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: 380-189499-1

Job ID: 380-189499-1

Eurofins Pomona

Job Narrative 380-189499-1

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 12/24/2025 10:37 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 0.7°C.

PFAS

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

Detection Summary

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

Job ID: 380-189499-1
SDG: PFAS: Moanalua Wells

Client Sample ID: MOANALUA WELLS (331-223-TP202)
PWSID Number: HI0000331

Lab Sample ID: 380-189499-1

No Detections.

Client Sample ID: FB: MOANALUA WELLS (331-223-TP202)
PWSID Number: HI0000331

Lab Sample ID: 380-189499-2

No Detections.

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This Detection Summary does not include radiochemical test results.

Client Sample Results

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

Job ID: 380-189499-1
SDG: PFAS: Moanalua Wells

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

Lab Sample ID: 380-189499-1

Date Collected: 12/22/25 09:13

Matrix: Drinking Water

Date Received: 12/24/25 10:37

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		12/30/25 20:27	12/31/25 14:37	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		12/30/25 20:27	12/31/25 14:37	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		12/30/25 20:27	12/31/25 14:37	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		12/30/25 20:27	12/31/25 14:37	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		12/30/25 20:27	12/31/25 14:37	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		12/30/25 20:27	12/31/25 14:37	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		12/30/25 20:27	12/31/25 14:37	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		12/30/25 20:27	12/31/25 14:37	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		12/30/25 20:27	12/31/25 14:37	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		12/30/25 20:27	12/31/25 14:37	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		12/30/25 20:27	12/31/25 14:37	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		12/30/25 20:27	12/31/25 14:37	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		12/30/25 20:27	12/31/25 14:37	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		12/30/25 20:27	12/31/25 14:37	1
Perfluorobutanoic acid (PFBA)	<2.0		2.0	ng/L		12/30/25 20:27	12/31/25 14:37	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0	ng/L		12/30/25 20:27	12/31/25 14:37	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0	ng/L		12/30/25 20:27	12/31/25 14:37	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0	ng/L		12/30/25 20:27	12/31/25 14:37	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		2.0	ng/L		12/30/25 20:27	12/31/25 14:37	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<2.0		2.0	ng/L		12/30/25 20:27	12/31/25 14:37	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		12/30/25 20:27	12/31/25 14:37	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		12/30/25 20:27	12/31/25 14:37	1
Perfluoropentanoic acid (PFPeA)	<2.0		2.0	ng/L		12/30/25 20:27	12/31/25 14:37	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		12/30/25 20:27	12/31/25 14:37	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		12/30/25 20:27	12/31/25 14:37	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	97		50 - 200	12/30/25 20:27	12/31/25 14:37	1
13C6 PFDA	104		50 - 200	12/30/25 20:27	12/31/25 14:37	1
13C5 PFHxA	111		50 - 200	12/30/25 20:27	12/31/25 14:37	1
13C4 PFHpA	108		50 - 200	12/30/25 20:27	12/31/25 14:37	1
13C8 PFOA	113		50 - 200	12/30/25 20:27	12/31/25 14:37	1
13C9 PFNA	106		50 - 200	12/30/25 20:27	12/31/25 14:37	1
13C7 PFUnA	100		50 - 200	12/30/25 20:27	12/31/25 14:37	1
13C2 PFDoA	100		50 - 200	12/30/25 20:27	12/31/25 14:37	1
13C4 PFBA	107		50 - 200	12/30/25 20:27	12/31/25 14:37	1
13C5 PFPeA	107		50 - 200	12/30/25 20:27	12/31/25 14:37	1
13C3 PFBS	104		50 - 200	12/30/25 20:27	12/31/25 14:37	1
13C3 PFHxS	102		50 - 200	12/30/25 20:27	12/31/25 14:37	1
13C8 PFOS	105		50 - 200	12/30/25 20:27	12/31/25 14:37	1

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Client Sample Results

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

Job ID: 380-189499-1
SDG: PFAS: Moanalua Wells

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

Lab Sample ID: 380-189499-1

Date Collected: 12/22/25 09:13

Matrix: Drinking Water

Date Received: 12/24/25 10:37

PWSID Number: HI0000331

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2-4:2-FTS	104		50 - 200	12/30/25 20:27	12/31/25 14:37	1
13C2-6:2-FTS	92		50 - 200	12/30/25 20:27	12/31/25 14:37	1
13C2-8:2-FTS	89		50 - 200	12/30/25 20:27	12/31/25 14:37	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		12/27/25 06:41	12/28/25 13:34	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		12/27/25 06:41	12/28/25 13:34	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		12/27/25 06:41	12/28/25 13:34	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		2.0	ng/L		12/27/25 06:41	12/28/25 13:34	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		2.0	ng/L		12/27/25 06:41	12/28/25 13:34	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		12/27/25 06:41	12/28/25 13:34	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		12/27/25 06:41	12/28/25 13:34	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		12/27/25 06:41	12/28/25 13:34	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		12/27/25 06:41	12/28/25 13:34	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		12/27/25 06:41	12/28/25 13:34	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		12/27/25 06:41	12/28/25 13:34	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		12/27/25 06:41	12/28/25 13:34	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		12/27/25 06:41	12/28/25 13:34	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0	ng/L		12/27/25 06:41	12/28/25 13:34	1
Perfluorotridecanoic acid (PFTTrDA)	<2.0		2.0	ng/L		12/27/25 06:41	12/28/25 13:34	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		12/27/25 06:41	12/28/25 13:34	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		12/27/25 06:41	12/28/25 13:34	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		12/27/25 06:41	12/28/25 13:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	100		70 - 130	12/27/25 06:41	12/28/25 13:34	1
13C2 PFHxA	102		70 - 130	12/27/25 06:41	12/28/25 13:34	1
13C2 PFDA	111		70 - 130	12/27/25 06:41	12/28/25 13:34	1
13C3-GenX	88		70 - 130	12/27/25 06:41	12/28/25 13:34	1

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

Lab Sample ID: 380-189499-2

Date Collected: 12/22/25 09:13

Matrix: Water

Date Received: 12/24/25 10:37

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		12/30/25 20:27	12/31/25 14:47	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		12/30/25 20:27	12/31/25 14:47	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		12/30/25 20:27	12/31/25 14:47	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		12/30/25 20:27	12/31/25 14:47	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		12/30/25 20:27	12/31/25 14:47	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		12/30/25 20:27	12/31/25 14:47	1

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Client Sample Results

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

Job ID: 380-189499-1
SDG: PFAS: Moanalua Wells

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

Lab Sample ID: 380-189499-2

Date Collected: 12/22/25 09:13

Matrix: Water

Date Received: 12/24/25 10:37

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
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		12/30/25 20:27	12/31/25 14:47	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		12/30/25 20:27	12/31/25 14:47	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		12/30/25 20:27	12/31/25 14:47	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		12/30/25 20:27	12/31/25 14:47	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		12/30/25 20:27	12/31/25 14:47	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		12/30/25 20:27	12/31/25 14:47	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		12/30/25 20:27	12/31/25 14:47	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		12/30/25 20:27	12/31/25 14:47	1
Perfluorobutanoic acid (PFBA)	<2.0		2.0	ng/L		12/30/25 20:27	12/31/25 14:47	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0	ng/L		12/30/25 20:27	12/31/25 14:47	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0	ng/L		12/30/25 20:27	12/31/25 14:47	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0	ng/L		12/30/25 20:27	12/31/25 14:47	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		2.0	ng/L		12/30/25 20:27	12/31/25 14:47	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<2.0		2.0	ng/L		12/30/25 20:27	12/31/25 14:47	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		12/30/25 20:27	12/31/25 14:47	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		12/30/25 20:27	12/31/25 14:47	1
Perfluoropentanoic acid (PFPeA)	<2.0		2.0	ng/L		12/30/25 20:27	12/31/25 14:47	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		12/30/25 20:27	12/31/25 14:47	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		12/30/25 20:27	12/31/25 14:47	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	103		50 - 200	12/30/25 20:27	12/31/25 14:47	1
13C6 PFDA	108		50 - 200	12/30/25 20:27	12/31/25 14:47	1
13C5 PFHxA	116		50 - 200	12/30/25 20:27	12/31/25 14:47	1
13C4 PFHpA	119		50 - 200	12/30/25 20:27	12/31/25 14:47	1
13C8 PFOA	118		50 - 200	12/30/25 20:27	12/31/25 14:47	1
13C9 PFNA	117		50 - 200	12/30/25 20:27	12/31/25 14:47	1
13C7 PFUnA	110		50 - 200	12/30/25 20:27	12/31/25 14:47	1
13C2 PFDoA	105		50 - 200	12/30/25 20:27	12/31/25 14:47	1
13C4 PFBA	112		50 - 200	12/30/25 20:27	12/31/25 14:47	1
13C5 PFPeA	125		50 - 200	12/30/25 20:27	12/31/25 14:47	1
13C3 PFBS	112		50 - 200	12/30/25 20:27	12/31/25 14:47	1
13C3 PFHxS	111		50 - 200	12/30/25 20:27	12/31/25 14:47	1
13C8 PFOS	113		50 - 200	12/30/25 20:27	12/31/25 14:47	1
13C2-4:2-FTS	116		50 - 200	12/30/25 20:27	12/31/25 14:47	1
13C2-6:2-FTS	107		50 - 200	12/30/25 20:27	12/31/25 14:47	1
13C2-8:2-FTS	92		50 - 200	12/30/25 20:27	12/31/25 14:47	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		12/29/25 16:25	12/30/25 22:19	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		12/29/25 16:25	12/30/25 22:19	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		12/29/25 16:25	12/30/25 22:19	1

Eurofins Pomona

Client Sample Results

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

Job ID: 380-189499-1
SDG: PFAS: Moanalua Wells

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

Lab Sample ID: 380-189499-2

Date Collected: 12/22/25 09:13

Matrix: Water

Date Received: 12/24/25 10:37

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		12/29/25 16:25	12/30/25 22:19	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		2.0	ng/L		12/29/25 16:25	12/30/25 22:19	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		12/29/25 16:25	12/30/25 22:19	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		12/29/25 16:25	12/30/25 22:19	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		12/29/25 16:25	12/30/25 22:19	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		12/29/25 16:25	12/30/25 22:19	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		12/29/25 16:25	12/30/25 22:19	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		12/29/25 16:25	12/30/25 22:19	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		12/29/25 16:25	12/30/25 22:19	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		12/29/25 16:25	12/30/25 22:19	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0	ng/L		12/29/25 16:25	12/30/25 22:19	1
Perfluorotridecanoic acid (PFTrDA)	<2.0		2.0	ng/L		12/29/25 16:25	12/30/25 22:19	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	<2.0		2.0	ng/L		12/29/25 16:25	12/30/25 22:19	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		12/29/25 16:25	12/30/25 22:19	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		12/29/25 16:25	12/30/25 22:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	103		70 - 130			12/29/25 16:25	12/30/25 22:19	1
13C2 PFHxA	98		70 - 130			12/29/25 16:25	12/30/25 22:19	1
13C2 PFDA	103		70 - 130			12/29/25 16:25	12/30/25 22:19	1
13C3-GenX	92		70 - 130			12/29/25 16:25	12/30/25 22:19	1

Action Limit Summary

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

Job ID: 380-189499-1
SDG: PFAS: Moanalua Wells

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

Lab Sample ID: 380-189499-1

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	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: MOANALUA WELLS (331-223-TP202)

Lab Sample ID: 380-189499-2

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

Surrogate Summary

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

Job ID: 380-189499-1
 SDG: PFAS: Moanalua Wells

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)
380-189499-1	MOANALUA WELLS (331-223-TP202)	100	102	111	88
380-189499-1 MS	MOANALUA WELLS (331-223-TP202)	101	108	112	97
380-189499-1 MSD	MOANALUA WELLS (331-223-TP202)	98	98	102	88

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)
380-189496-A-1-B MS	Matrix Spike	102	106	109	101
380-189496-A-1-C MSD	Matrix Spike Duplicate	109	110	116	107
380-189499-2	FB: MOANALUA WELLS (331-223-TP202)	103	98	103	92
LCS 380-194721/24-A	Lab Control Sample	101	112	120	90
LCS 380-194879/22-A	Lab Control Sample	104	107	105	101
MBL 380-194721/22-A	Method Blank	93	105	109	76
MBL 380-194879/20-A	Method Blank	99	97	102	90
MRL 380-194721/23-A	Lab Control Sample	105	103	111	78
MRL 380-194879/21-A	Lab Control Sample	106	99	107	97

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: 380-189499-1
SDG: PFAS: Moanalua Wells

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

Matrix: Drinking Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)							
		HFPODA (50-200)	C6PFDA (50-200)	13C5PHA (50-200)	C4PFHA (50-200)	C8PFOA (50-200)	C9PFNA (50-200)	13C7PUA (50-200)	PFDoA (50-200)
380-189499-1	MOANALUA WELLS (331-223-TP20)	97	104	111	108	113	106	100	100

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)							
		PFBA (50-200)	PFPeA (50-200)	C3PFBS (50-200)	C3PFHS (50-200)	C8PFOS (50-200)	42FTS (50-200)	62FTS (50-200)	82FTS (50-200)
380-189499-1	MOANALUA WELLS (331-223-TP20)	107	107	104	102	105	104	92	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
- PFDoA = 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

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)							
		HFPODA (50-200)	C6PFDA (50-200)	13C5PHA (50-200)	C4PFHA (50-200)	C8PFOA (50-200)	C9PFNA (50-200)	13C7PUA (50-200)	PFDoA (50-200)
380-189496-B-1-A MS	Matrix Spike	61	55	66	64	61	57	58	66
380-189496-B-1-B MSD	Matrix Spike Duplicate	84	92	89	88	89	89	96	100
380-189499-2	FB: MOANALUA WELLS (331-223-TP202)	103	108	116	119	118	117	110	105
LCS 380-195193/22-A	Lab Control Sample	103	112	112	116	118	123	111	108
MBL 380-195193/20-A	Method Blank	97	109	107	111	111	114	109	111
MRL 380-195193/21-A	Lab Control Sample	100	105	106	107	112	110	102	104

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)							
		PFBA (50-200)	PFPeA (50-200)	C3PFBS (50-200)	C3PFHS (50-200)	C8PFOS (50-200)	42FTS (50-200)	62FTS (50-200)	82FTS (50-200)
380-189496-B-1-A MS	Matrix Spike	66	64	97	101	99	103	91	87
380-189496-B-1-B MSD	Matrix Spike Duplicate	83	85	104	107	105	105	96	89
380-189499-2	FB: MOANALUA WELLS (331-223-TP202)	112	125	112	111	113	116	107	92
LCS 380-195193/22-A	Lab Control Sample	108	107	113	119	122	165	184	126
MBL 380-195193/20-A	Method Blank	104	104	98	97	106	119	129	126
MRL 380-195193/21-A	Lab Control Sample	101	101	97	98	101	100	89	87

Surrogate Legend

- HFPODA = 13C3 HFPO-DA
- C6PFDA = 13C6 PFDA

Isotope Dilution Summary

Client: City & County of Honolulu

Project/Site: RED-HILL

Job ID: 380-189499-1
SDG: PFAS: Moanalua Wells

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

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

QC Sample Results

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

Job ID: 380-189499-1
SDG: PFAS: Moanalua Wells

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

Lab Sample ID: MBL 380-195193/20-A
Matrix: Water
Analysis Batch: 195228

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 195193

Analyte	MBL	MBL	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<0.30		2.0	ng/L		12/30/25 20:27	12/31/25 11:07	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<0.30		2.0	ng/L		12/30/25 20:27	12/31/25 11:07	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.60		2.0	ng/L		12/30/25 20:27	12/31/25 11:07	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<1.0		2.0	ng/L		12/30/25 20:27	12/31/25 11:07	1
Perfluorobutanesulfonic acid (PFBS)	<0.37		2.0	ng/L		12/30/25 20:27	12/31/25 11:07	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	ng/L		12/30/25 20:27	12/31/25 11:07	1
Perfluorododecanoic acid (PFDoA)	<0.54		2.0	ng/L		12/30/25 20:27	12/31/25 11:07	1
Perfluoroheptanoic acid (PFHpA)	<0.39		2.0	ng/L		12/30/25 20:27	12/31/25 11:07	1
Perfluorohexanesulfonic acid (PFHxS)	<0.32		2.0	ng/L		12/30/25 20:27	12/31/25 11:07	1
Perfluorohexanoic acid (PFHxA)	<0.46		2.0	ng/L		12/30/25 20:27	12/31/25 11:07	1
Perfluorononanoic acid (PFNA)	<0.40		2.0	ng/L		12/30/25 20:27	12/31/25 11:07	1
Perfluorooctanesulfonic acid (PFOS)	<0.43		2.0	ng/L		12/30/25 20:27	12/31/25 11:07	1
Perfluorooctanoic acid (PFOA)	<0.38		2.0	ng/L		12/30/25 20:27	12/31/25 11:07	1
Perfluoroundecanoic acid (PFUnA)	<0.42		2.0	ng/L		12/30/25 20:27	12/31/25 11:07	1
Perfluorobutanoic acid (PFBA)	<0.69		2.0	ng/L		12/30/25 20:27	12/31/25 11:07	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<0.38		2.0	ng/L		12/30/25 20:27	12/31/25 11:07	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<0.37		2.0	ng/L		12/30/25 20:27	12/31/25 11:07	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<0.48		2.0	ng/L		12/30/25 20:27	12/31/25 11:07	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.47		2.0	ng/L		12/30/25 20:27	12/31/25 11:07	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<0.25		2.0	ng/L		12/30/25 20:27	12/31/25 11:07	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.46		2.0	ng/L		12/30/25 20:27	12/31/25 11:07	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.15		2.0	ng/L		12/30/25 20:27	12/31/25 11:07	1
Perfluoropentanoic acid (PFPeA)	<0.38		2.0	ng/L		12/30/25 20:27	12/31/25 11:07	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.36		2.0	ng/L		12/30/25 20:27	12/31/25 11:07	1
Perfluoropentanesulfonic acid (PFPeS)	<0.39		2.0	ng/L		12/30/25 20:27	12/31/25 11:07	1

Isotope Dilution	MBL	MBL	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C3 HFPO-DA	97		50 - 200	12/30/25 20:27	12/31/25 11:07	1
13C6 PFDA	109		50 - 200	12/30/25 20:27	12/31/25 11:07	1
13C5 PFHxA	107		50 - 200	12/30/25 20:27	12/31/25 11:07	1
13C4 PFHpA	111		50 - 200	12/30/25 20:27	12/31/25 11:07	1
13C8 PFOA	111		50 - 200	12/30/25 20:27	12/31/25 11:07	1
13C9 PFNA	114		50 - 200	12/30/25 20:27	12/31/25 11:07	1
13C7 PFUnA	109		50 - 200	12/30/25 20:27	12/31/25 11:07	1
13C2 PFDoA	111		50 - 200	12/30/25 20:27	12/31/25 11:07	1
13C4 PFBA	104		50 - 200	12/30/25 20:27	12/31/25 11:07	1
13C5 PFPeA	104		50 - 200	12/30/25 20:27	12/31/25 11:07	1
13C3 PFBS	98		50 - 200	12/30/25 20:27	12/31/25 11:07	1
13C3 PFHxS	97		50 - 200	12/30/25 20:27	12/31/25 11:07	1

Eurofins Pomona

QC Sample Results

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

Job ID: 380-189499-1
SDG: PFAS: Moanalua Wells

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

Lab Sample ID: MBL 380-195193/20-A

Matrix: Water

Analysis Batch: 195228

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 195193

<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	106		50 - 200	12/30/25 20:27	12/31/25 11:07	1
13C2-4:2-FTS	119		50 - 200	12/30/25 20:27	12/31/25 11:07	1
13C2-6:2-FTS	129		50 - 200	12/30/25 20:27	12/31/25 11:07	1
13C2-8:2-FTS	126		50 - 200	12/30/25 20:27	12/31/25 11:07	1

Lab Sample ID: LCS 380-195193/22-A

Matrix: Water

Analysis Batch: 195228

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 195193

<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)	60.2	55.0		ng/L		91	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	60.2	61.8		ng/L		103	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	60.2	63.4		ng/L		105	70 - 130
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	60.2	65.5		ng/L		109	70 - 130
Perfluorobutanesulfonic acid (PFBS)	60.2	64.7		ng/L		107	70 - 130
Perfluorodecanoic acid (PFDA)	60.2	62.2		ng/L		103	70 - 130
Perfluorododecanoic acid (PFDoA)	60.2	62.2		ng/L		103	70 - 130
Perfluoroheptanoic acid (PFHpA)	60.2	61.8		ng/L		103	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	60.2	62.2		ng/L		103	70 - 130
Perfluorohexanoic acid (PFHxA)	60.2	60.3		ng/L		100	70 - 130
Perfluorononanoic acid (PFNA)	60.2	60.8		ng/L		101	70 - 130
Perfluorooctanesulfonic acid (PFOS)	60.2	60.5		ng/L		100	70 - 130
Perfluorooctanoic acid (PFOA)	60.2	60.8		ng/L		101	70 - 130
Perfluoroundecanoic acid (PFUnA)	60.2	60.8		ng/L		101	70 - 130
Perfluorobutanoic acid (PFBA)	60.2	61.0		ng/L		101	70 - 130
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	60.2	64.1		ng/L		106	70 - 130
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	60.2	64.7		ng/L		107	70 - 130
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	60.2	64.6		ng/L		107	70 - 130
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	60.2	62.7		ng/L		104	70 - 130
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	60.2	60.7		ng/L		101	70 - 130
Perfluoro-3-methoxypropanoic acid (PFMPA)	60.2	57.2		ng/L		95	70 - 130
Perfluoro-4-methoxybutanoic acid (PFMBA)	60.2	56.3		ng/L		93	70 - 130
Perfluoropentanoic acid (PFPeA)	60.2	63.6		ng/L		106	70 - 130
Perfluoroheptanesulfonic acid (PFHpS)	60.2	63.1		ng/L		105	70 - 130

QC Sample Results

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

Job ID: 380-189499-1
SDG: PFAS: Moanalua Wells

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

Lab Sample ID: LCS 380-195193/22-A

Matrix: Water

Analysis Batch: 195228

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 195193

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoropentanesulfonic acid (PFPeS)	60.2	61.3		ng/L		102	70 - 130
LCS LCS							
Isotope Dilution	%Recovery	Qualifier	Limits				
13C3 HFPO-DA	103		50 - 200				
13C6 PFDA	112		50 - 200				
13C5 PFHxA	112		50 - 200				
13C4 PFHpA	116		50 - 200				
13C8 PFOA	118		50 - 200				
13C9 PFNA	123		50 - 200				
13C7 PFUnA	111		50 - 200				
13C2 PFDoA	108		50 - 200				
13C4 PFBA	108		50 - 200				
13C5 PFPeA	107		50 - 200				
13C3 PFBS	113		50 - 200				
13C3 PFHxS	119		50 - 200				
13C8 PFOS	122		50 - 200				
13C2-4:2-FTS	165		50 - 200				
13C2-6:2-FTS	184		50 - 200				
13C2-8:2-FTS	126		50 - 200				

Lab Sample ID: MRL 380-195193/21-A

Matrix: Water

Analysis Batch: 195228

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 195193

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.01	1.94	J	ng/L		96	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	2.01	2.13	J	ng/L		106	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	2.01	2.11	J	ng/L		105	50 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	2.01	1.93	J	ng/L		96	50 - 150
Perfluorobutanesulfonic acid (PFBS)	2.01	2.16	J	ng/L		107	50 - 150
Perfluorodecanoic acid (PFDA)	2.01	2.09	J	ng/L		104	50 - 150
Perfluorododecanoic acid (PFDoA)	2.01	2.17	J	ng/L		108	50 - 150
Perfluoroheptanoic acid (PFHpA)	2.01	2.17	J	ng/L		108	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	2.01	2.08	J	ng/L		104	50 - 150
Perfluorohexanoic acid (PFHxA)	2.01	1.98	J	ng/L		98	50 - 150
Perfluorononanoic acid (PFNA)	2.01	2.03	J	ng/L		101	50 - 150
Perfluorooctanesulfonic acid (PFOS)	2.01	2.08	J	ng/L		104	50 - 150
Perfluorooctanoic acid (PFOA)	2.01	2.02	J	ng/L		100	50 - 150
Perfluoroundecanoic acid (PFUnA)	2.01	2.13	J	ng/L		106	50 - 150
Perfluorobutanoic acid (PFBA)	2.01	2.07	J	ng/L		103	50 - 150

Eurofins Pomona

QC Sample Results

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

Job ID: 380-189499-1
SDG: PFAS: Moanalua Wells

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

Lab Sample ID: MRL 380-195193/21-A
Matrix: Water
Analysis Batch: 195228

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 195193

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	2.01	2.22	J	ng/L		110	50 - 150
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	2.01	2.20	J	ng/L		110	50 - 150
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	2.01	2.32	J	ng/L		116	50 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	2.01	2.26	J	ng/L		112	50 - 150
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	2.01	1.88	J	ng/L		94	50 - 150
Perfluoro-3-methoxypropanoic acid (PFMPA)	2.01	1.83	J	ng/L		91	50 - 150
Perfluoro-4-methoxybutanoic acid (PFMBA)	2.01	1.88	J	ng/L		94	50 - 150
Perfluoropentanoic acid (PFPeA)	2.01	2.07	J	ng/L		103	50 - 150
Perfluoroheptanesulfonic acid (PFHpS)	2.01	1.95	J	ng/L		97	50 - 150
Perfluoropentanesulfonic acid (PFPeS)	2.01	2.05	J	ng/L		102	50 - 150

Isotope Dilution	MRL %Recovery	MRL Qualifier	MRL Limits
13C3 HFPO-DA	100		50 - 200
13C6 PFDA	105		50 - 200
13C5 PFHxA	106		50 - 200
13C4 PFHpA	107		50 - 200
13C8 PFOA	112		50 - 200
13C9 PFNA	110		50 - 200
13C7 PFUnA	102		50 - 200
13C2 PFDoA	104		50 - 200
13C4 PFBA	101		50 - 200
13C5 PFPeA	101		50 - 200
13C3 PFBS	97		50 - 200
13C3 PFHxS	98		50 - 200
13C8 PFOS	101		50 - 200
13C2-4:2-FTS	100		50 - 200
13C2-6:2-FTS	89		50 - 200
13C2-8:2-FTS	87		50 - 200

Lab Sample ID: 380-189496-B-1-A MS
Matrix: Water
Analysis Batch: 195228

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 195193

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		120	111		ng/L		92	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		120	117		ng/L		97	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		120	108		ng/L		89	70 - 130

QC Sample Results

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

Job ID: 380-189499-1
SDG: PFAS: Moanalua Wells

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

Lab Sample ID: 380-189496-B-1-A MS

Client Sample ID: Matrix Spike

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 195228

Prep Batch: 195193

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier	Added	Result	Qualifier				
Hexafluoropropylene Oxide	<2.0		120	111		ng/L		93	70 - 130
Dimer Acid (HFPO-DA/GenX)									
Perfluorobutanesulfonic acid (PFBS)	<2.0		120	122		ng/L		101	70 - 130
Perfluorodecanoic acid (PFDA)	<2.0		120	120		ng/L		99	70 - 130
Perfluorododecanoic acid (PFDoA)	<2.0		120	119		ng/L		99	70 - 130
Perfluoroheptanoic acid (PFHpA)	<2.0		120	119		ng/L		98	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	<2.0		120	116		ng/L		96	70 - 130
Perfluorohexanoic acid (PFHxA)	<2.0		120	115		ng/L		96	70 - 130
Perfluorononanoic acid (PFNA)	<2.0		120	117		ng/L		97	70 - 130
Perfluorooctanesulfonic acid (PFOS)	<2.0		120	122		ng/L		101	70 - 130
Perfluorooctanoic acid (PFOA)	<2.0		120	116		ng/L		96	70 - 130
Perfluoroundecanoic acid (PFUnA)	<2.0		120	122		ng/L		101	70 - 130
Perfluorobutanoic acid (PFBA)	<2.0		120	120		ng/L		100	70 - 130
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		120	122		ng/L		101	70 - 130
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		120	115		ng/L		95	70 - 130
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		120	124		ng/L		103	70 - 130
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		120	106		ng/L		88	70 - 130
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<2.0		120	123		ng/L		102	70 - 130
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		120	102		ng/L		85	70 - 130
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		120	102		ng/L		85	70 - 130
Perfluoropentanoic acid (PFPeA)	<2.0		120	119		ng/L		98	70 - 130
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		120	119		ng/L		99	70 - 130
Perfluoropentanesulfonic acid (PFPeS)	<2.0		120	115		ng/L		95	70 - 130

Isotope Dilution	MS MS		Limits
	%Recovery	Qualifier	
13C3 HFPO-DA	61		50 - 200
13C6 PFDA	55		50 - 200
13C5 PFHxA	66		50 - 200
13C4 PFHpA	64		50 - 200
13C8 PFOA	61		50 - 200
13C9 PFNA	57		50 - 200
13C7 PFUnA	58		50 - 200
13C2 PFDoA	66		50 - 200
13C4 PFBA	66		50 - 200
13C5 PFPeA	64		50 - 200
13C3 PFBS	97		50 - 200
13C3 PFHxS	101		50 - 200
13C8 PFOS	99		50 - 200

QC Sample Results

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

Job ID: 380-189499-1
SDG: PFAS: Moanalua Wells

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

Lab Sample ID: 380-189496-B-1-A MS

Client Sample ID: Matrix Spike

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 195228

Prep Batch: 195193

Isotope Dilution	MS MS		Limits
	%Recovery	Qualifier	
13C2-4:2-FTS	103		50 - 200
13C2-6:2-FTS	91		50 - 200
13C2-8:2-FTS	87		50 - 200

Lab Sample ID: 380-189496-B-1-B MSD

Client Sample ID: Matrix Spike Duplicate

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 195228

Prep Batch: 195193

Analyte	Sample	Sample	Spike	MSD MSD		Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier		Result	Qualifier				Limits		Limit
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		121	113		ng/L		93	70 - 130	2	30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		121	115		ng/L		96	70 - 130	1	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		121	111		ng/L		92	70 - 130	3	30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		121	116		ng/L		96	70 - 130	4	30
Perfluorobutanesulfonic acid (PFBS)	<2.0		121	120		ng/L		100	70 - 130	2	30
Perfluorodecanoic acid (PFDA)	<2.0		121	121		ng/L		100	70 - 130	1	30
Perfluorododecanoic acid (PFDoA)	<2.0		121	120		ng/L		99	70 - 130	0	30
Perfluoroheptanoic acid (PFHpA)	<2.0		121	121		ng/L		100	70 - 130	2	30
Perfluorohexanesulfonic acid (PFHxS)	<2.0		121	114		ng/L		95	70 - 130	1	30
Perfluorohexanoic acid (PFHxA)	<2.0		121	117		ng/L		97	70 - 130	1	30
Perfluorononanoic acid (PFNA)	<2.0		121	120		ng/L		100	70 - 130	3	30
Perfluorooctanesulfonic acid (PFOS)	<2.0		121	119		ng/L		99	70 - 130	2	30
Perfluorooctanoic acid (PFOA)	<2.0		121	118		ng/L		97	70 - 130	1	30
Perfluoroundecanoic acid (PFUnA)	<2.0		121	120		ng/L		99	70 - 130	1	30
Perfluorobutanoic acid (PFBA)	<2.0		121	119		ng/L		99	70 - 130	1	30
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		121	119		ng/L		99	70 - 130	2	30
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		121	117		ng/L		97	70 - 130	2	30
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		121	119		ng/L		99	70 - 130	4	30
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		121	111		ng/L		92	70 - 130	4	30
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<2.0		121	119		ng/L		98	70 - 130	4	30
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		121	113		ng/L		94	70 - 130	10	30
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		121	107		ng/L		88	70 - 130	4	30
Perfluoropentanoic acid (PFPeA)	<2.0		121	120		ng/L		100	70 - 130	2	30
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		121	119		ng/L		99	70 - 130	0	30
Perfluoropentanesulfonic acid (PFPeS)	<2.0		121	119		ng/L		99	70 - 130	4	30

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QC Sample Results

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

Job ID: 380-189499-1
SDG: PFAS: Moanalua Wells

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

Isotope Dilution	MSD MSD		Limits
	%Recovery	Qualifier	
13C3 HFPO-DA	84		50 - 200
13C6 PFDA	92		50 - 200
13C5 PFHxA	89		50 - 200
13C4 PFHpA	88		50 - 200
13C8 PFOA	89		50 - 200
13C9 PFNA	89		50 - 200
13C7 PFUnA	96		50 - 200
13C2 PFDoA	100		50 - 200
13C4 PFBA	83		50 - 200
13C5 PFPeA	85		50 - 200
13C3 PFBS	104		50 - 200
13C3 PFHxS	107		50 - 200
13C8 PFOS	105		50 - 200
13C2-4:2-FTS	105		50 - 200
13C2-6:2-FTS	96		50 - 200
13C2-8:2-FTS	89		50 - 200

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

Lab Sample ID: MBL 380-194721/22-A
Matrix: Water
Analysis Batch: 194745

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 194721

Analyte	MBL MBL		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<1.0		2.0	ng/L		12/27/25 06:41	12/28/25 13:03	1
Perfluorooctanesulfonic acid (PFOS)	<0.43		2.0	ng/L		12/27/25 06:41	12/28/25 13:03	1
Perfluoroundecanoic acid (PFUnA)	<0.42		2.0	ng/L		12/27/25 06:41	12/28/25 13:03	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.58		2.0	ng/L		12/27/25 06:41	12/28/25 13:03	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.42		2.0	ng/L		12/27/25 06:41	12/28/25 13:03	1
Perfluorohexanoic acid (PFHxA)	<0.46		2.0	ng/L		12/27/25 06:41	12/28/25 13:03	1
Perfluorododecanoic acid (PFDoA)	<0.54		2.0	ng/L		12/27/25 06:41	12/28/25 13:03	1
Perfluorooctanoic acid (PFOA)	<0.38		2.0	ng/L		12/27/25 06:41	12/28/25 13:03	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	ng/L		12/27/25 06:41	12/28/25 13:03	1
Perfluorohexanesulfonic acid (PFHxS)	<0.32		2.0	ng/L		12/27/25 06:41	12/28/25 13:03	1
Perfluorobutanesulfonic acid (PFBS)	<0.37		2.0	ng/L		12/27/25 06:41	12/28/25 13:03	1
Perfluoroheptanoic acid (PFHpA)	<0.39		2.0	ng/L		12/27/25 06:41	12/28/25 13:03	1
Perfluorononanoic acid (PFNA)	<0.40		2.0	ng/L		12/27/25 06:41	12/28/25 13:03	1
Perfluorotetradecanoic acid (PFTA)	<0.54		2.0	ng/L		12/27/25 06:41	12/28/25 13:03	1
Perfluorotridecanoic acid (PFTTrDA)	<0.36		2.0	ng/L		12/27/25 06:41	12/28/25 13:03	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<0.30		2.0	ng/L		12/27/25 06:41	12/28/25 13:03	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<0.30		2.0	ng/L		12/27/25 06:41	12/28/25 13:03	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.60		2.0	ng/L		12/27/25 06:41	12/28/25 13:03	1

Surrogate	MBL MBL		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
d5-NEtFOSAA	93		70 - 130	12/27/25 06:41	12/28/25 13:03	1
13C2 PFHxA	105		70 - 130	12/27/25 06:41	12/28/25 13:03	1
13C2 PFDA	109		70 - 130	12/27/25 06:41	12/28/25 13:03	1

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QC Sample Results

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

Job ID: 380-189499-1
SDG: PFAS: Moanalua Wells

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

Lab Sample ID: MBL 380-194721/22-A
Matrix: Water
Analysis Batch: 194745

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 194721

<i>Surrogate</i>	<i>MBL</i>	<i>MBL</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C3-GenX	76	Qualifier	70 - 130	12/27/25 06:41	12/28/25 13:03	1

Lab Sample ID: LCS 380-194721/24-A
Matrix: Water
Analysis Batch: 194745

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 194721

<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>	<i>Limits</i>
Hexafluoropropylene Oxide	50.2	40.9		ng/L		82	70 - 130
Dimer Acid (HFPO-DA/GenX)							
Perfluorooctanesulfonic acid (PFOS)	50.2	54.2		ng/L		108	70 - 130
Perfluoroundecanoic acid (PFUnA)	50.2	54.4		ng/L		108	70 - 130
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	50.2	48.2		ng/L		96	70 - 130
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	50.2	48.6		ng/L		97	70 - 130
Perfluorohexanoic acid (PFHxA)	50.2	51.0		ng/L		102	70 - 130
Perfluorododecanoic acid (PFDoA)	50.2	55.3		ng/L		110	70 - 130
Perfluorooctanoic acid (PFOA)	50.2	53.7		ng/L		107	70 - 130
Perfluorodecanoic acid (PFDA)	50.2	55.2		ng/L		110	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	50.2	53.8		ng/L		107	70 - 130
Perfluorobutanesulfonic acid (PFBS)	50.2	52.9		ng/L		105	70 - 130
Perfluoroheptanoic acid (PFHpA)	50.2	52.2		ng/L		104	70 - 130
Perfluorononanoic acid (PFNA)	50.2	53.4		ng/L		106	70 - 130
Perfluorotetradecanoic acid (PFTA)	50.2	38.8		ng/L		77	70 - 130
Perfluorotridecanoic acid (PFTrDA)	50.2	55.8		ng/L		111	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	50.2	50.8		ng/L		101	70 - 130
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	50.2	50.0		ng/L		100	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	50.2	51.1		ng/L		102	70 - 130

<i>Surrogate</i>	<i>LCS</i>	<i>LCS</i>	<i>Limits</i>
	<i>%Recovery</i>	<i>Qualifier</i>	
d5-NEtFOSAA	101		70 - 130
13C2 PFHxA	112		70 - 130
13C2 PFDA	120		70 - 130
13C3-GenX	90		70 - 130

QC Sample Results

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

Job ID: 380-189499-1
SDG: PFAS: Moanalua Wells

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

Lab Sample ID: MRL 380-194721/23-A
Matrix: Water
Analysis Batch: 194745

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 194721

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	2.00	1.53	J	ng/L		76	50 - 150
Perfluorooctanesulfonic acid (PFOS)	2.00	2.21	J	ng/L		110	50 - 150
Perfluoroundecanoic acid (PFUnA)	2.00	2.28	J	ng/L		114	50 - 150
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.00	2.08	J	ng/L		104	50 - 150
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.00	2.21	J	ng/L		110	50 - 150
Perfluorohexanoic acid (PFHxA)	2.00	2.08	J	ng/L		104	50 - 150
Perfluorododecanoic acid (PFDoA)	2.00	2.28	J	ng/L		114	50 - 150
Perfluorooctanoic acid (PFOA)	2.00	2.14	J	ng/L		107	50 - 150
Perfluorodecanoic acid (PFDA)	2.00	2.18	J	ng/L		109	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	2.00	2.37	J	ng/L		118	50 - 150
Perfluorobutanesulfonic acid (PFBS)	2.00	2.13	J	ng/L		106	50 - 150
Perfluoroheptanoic acid (PFHpA)	2.00	2.11	J	ng/L		106	50 - 150
Perfluorononanoic acid (PFNA)	2.00	2.30	J	ng/L		115	50 - 150
Perfluorotetradecanoic acid (PFTA)	2.00	1.70	J	ng/L		85	50 - 150
Perfluorotridecanoic acid (PFTrDA)	2.00	2.36	J	ng/L		118	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	2.00	2.08	J	ng/L		104	50 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.00	2.03	J	ng/L		101	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	2.00	2.08	J	ng/L		104	50 - 150

Surrogate	MRL %Recovery	MRL Qualifier	Limits
d5-NEtFOSAA	105		70 - 130
13C2 PFHxA	103		70 - 130
13C2 PFDA	111		70 - 130
13C3-GenX	78		70 - 130

Lab Sample ID: 380-189499-1 MS
Matrix: Drinking Water
Analysis Batch: 194745

Client Sample ID: MOANALUA WELLS (331-223-TP202)
Prep Type: Total/NA
Prep Batch: 194721

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	24.2		ng/L		96	70 - 130
Perfluorooctanesulfonic acid (PFOS)	<2.0		25.1	28.7		ng/L		107	70 - 130
Perfluoroundecanoic acid (PFUnA)	<2.0		25.1	28.2		ng/L		112	70 - 130
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		25.1	26.0		ng/L		104	70 - 130

Eurofins Pomona

QC Sample Results

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

Job ID: 380-189499-1
SDG: PFAS: Moanalua Wells

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

Lab Sample ID: 380-189499-1 MS

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

Matrix: Drinking Water

Prep Type: Total/NA

Analysis Batch: 194745

Prep Batch: 194721

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier	Added	Result	Qualifier				
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		25.1	26.9		ng/L		107	70 - 130
Perfluorohexanoic acid (PFHxA)	<2.0		25.1	27.0		ng/L		103	70 - 130
Perfluorododecanoic acid (PFDoA)	<2.0		25.1	28.1		ng/L		112	70 - 130
Perfluorooctanoic acid (PFOA)	<2.0		25.1	27.5		ng/L		106	70 - 130
Perfluorodecanoic acid (PFDA)	<2.0		25.1	29.4		ng/L		117	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	<2.0		25.1	29.3		ng/L		111	70 - 130
Perfluorobutanesulfonic acid (PFBS)	<2.0		25.1	28.2		ng/L		110	70 - 130
Perfluoroheptanoic acid (PFHpA)	<2.0		25.1	27.6		ng/L		107	70 - 130
Perfluorononanoic acid (PFNA)	<2.0		25.1	27.6		ng/L		110	70 - 130
Perfluorotetradecanoic acid (PFTA)	<2.0		25.1	21.5		ng/L		86	70 - 130
Perfluorotridecanoic acid (PFTrDA)	<2.0		25.1	29.4		ng/L		117	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		25.1	26.8		ng/L		107	70 - 130
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		25.1	26.2		ng/L		105	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		25.1	26.4		ng/L		105	70 - 130

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
d5-NEtFOSAA	101		70 - 130
13C2 PFHxA	108		70 - 130
13C2 PFDA	112		70 - 130
13C3-GenX	97		70 - 130

Lab Sample ID: 380-189499-1 MSD

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

Matrix: Drinking Water

Prep Type: Total/NA

Analysis Batch: 194745

Prep Batch: 194721

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
	Result	Qualifier	Added	Result	Qualifier						
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		25.2	23.0		ng/L		92	70 - 130	5	30
Perfluorooctanesulfonic acid (PFOS)	<2.0		25.2	29.1		ng/L		108	70 - 130	2	30
Perfluoroundecanoic acid (PFUnA)	<2.0		25.2	27.9		ng/L		111	70 - 130	1	30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		25.2	25.1		ng/L		100	70 - 130	4	30
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		25.2	25.4		ng/L		101	70 - 130	6	30
Perfluorohexanoic acid (PFHxA)	<2.0		25.2	26.3		ng/L		100	70 - 130	3	30
Perfluorododecanoic acid (PFDoA)	<2.0		25.2	28.1		ng/L		112	70 - 130	0	30
Perfluorooctanoic acid (PFOA)	<2.0		25.2	27.4		ng/L		105	70 - 130	0	30
Perfluorodecanoic acid (PFDA)	<2.0		25.2	26.4		ng/L		105	70 - 130	11	30

Eurofins Pomona

QC Sample Results

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

Job ID: 380-189499-1
SDG: PFAS: Moanalua Wells

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

Lab Sample ID: MBL 380-194879/20-A
Matrix: Water
Analysis Batch: 194988

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 194879

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.60		2.0	ng/L		12/29/25 16:25	12/30/25 18:51	1

Surrogate	MBL %Recovery	MBL Qualifier	Limits	Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	99		70 - 130	12/29/25 16:25	12/30/25 18:51	1
13C2 PFHxA	97		70 - 130	12/29/25 16:25	12/30/25 18:51	1
13C2 PFDA	102		70 - 130	12/29/25 16:25	12/30/25 18:51	1
13C3-GenX	90		70 - 130	12/29/25 16:25	12/30/25 18:51	1

Lab Sample ID: LCS 380-194879/22-A
Matrix: Water
Analysis Batch: 194988

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 194879

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	50.2	49.9		ng/L		99	70 - 130
Perfluorooctanesulfonic acid (PFOS)	50.2	51.0		ng/L		102	70 - 130
Perfluoroundecanoic acid (PFUnA)	50.2	50.8		ng/L		101	70 - 130
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	50.2	51.4		ng/L		102	70 - 130
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	50.2	49.8		ng/L		99	70 - 130
Perfluorohexanoic acid (PFHxA)	50.2	49.6		ng/L		99	70 - 130
Perfluorododecanoic acid (PFDoA)	50.2	50.3		ng/L		100	70 - 130
Perfluorooctanoic acid (PFOA)	50.2	51.3		ng/L		102	70 - 130
Perfluorodecanoic acid (PFDA)	50.2	51.8		ng/L		103	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	50.2	51.1		ng/L		102	70 - 130
Perfluorobutanesulfonic acid (PFBS)	50.2	49.5		ng/L		99	70 - 130
Perfluoroheptanoic acid (PFHpA)	50.2	52.7		ng/L		105	70 - 130
Perfluorononanoic acid (PFNA)	50.2	50.9		ng/L		101	70 - 130
Perfluorotetradecanoic acid (PFTA)	50.2	37.1		ng/L		74	70 - 130
Perfluorotridecanoic acid (PFTrDA)	50.2	51.1		ng/L		102	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	50.2	51.1		ng/L		102	70 - 130
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	50.2	48.6		ng/L		97	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	50.2	50.6		ng/L		101	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
d5-NEtFOSAA	104		70 - 130
13C2 PFHxA	107		70 - 130
13C2 PFDA	105		70 - 130

QC Sample Results

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

Job ID: 380-189499-1
SDG: PFAS: Moanalua Wells

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

Lab Sample ID: LCS 380-194879/22-A

Matrix: Water

Analysis Batch: 194988

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 194879

<i>Surrogate</i>	<i>LCS</i>	<i>LCS</i>	<i>Limits</i>
	<i>%Recovery</i>	<i>Qualifier</i>	
13C3-GenX	101		70 - 130

Lab Sample ID: MRL 380-194879/21-A

Matrix: Water

Analysis Batch: 194988

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 194879

<i>Analyte</i>	<i>Spike</i>	<i>MRL</i>	<i>MRL</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>	
Hexafluoropropylene Oxide	2.01	2.03	J	ng/L		101	50 - 150
Dimer Acid (HFPO-DA/GenX)							
Perfluorooctanesulfonic acid (PFOS)	2.01	1.92	J	ng/L		96	50 - 150
Perfluoroundecanoic acid (PFUnA)	2.01	2.05	J	ng/L		102	50 - 150
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.01	2.18	J	ng/L		108	50 - 150
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.01	2.12	J	ng/L		106	50 - 150
Perfluorohexanoic acid (PFHxA)	2.01	1.83	J	ng/L		91	50 - 150
Perfluorododecanoic acid (PFDoA)	2.01	1.92	J	ng/L		96	50 - 150
Perfluorooctanoic acid (PFOA)	2.01	2.18	J	ng/L		108	50 - 150
Perfluorodecanoic acid (PFDA)	2.01	2.12	J	ng/L		106	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	2.01	2.05	J	ng/L		102	50 - 150
Perfluorobutanesulfonic acid (PFBS)	2.01	2.08	J	ng/L		103	50 - 150
Perfluoroheptanoic acid (PFHpA)	2.01	2.10	J	ng/L		105	50 - 150
Perfluorononanoic acid (PFNA)	2.01	2.19	J	ng/L		109	50 - 150
Perfluorotetradecanoic acid (PFTA)	2.01	1.46	J	ng/L		73	50 - 150
Perfluorotridecanoic acid (PFTrDA)	2.01	1.84	J	ng/L		92	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.01	1.93	J	ng/L		96	50 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.01	1.72	J	ng/L		86	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	2.01	2.15	J	ng/L		107	50 - 150

<i>Surrogate</i>	<i>MRL</i>	<i>MRL</i>	<i>Limits</i>
	<i>%Recovery</i>	<i>Qualifier</i>	
d5-NEtFOSAA	106		70 - 130
13C2 PFHxA	99		70 - 130
13C2 PFDA	107		70 - 130
13C3-GenX	97		70 - 130

QC Sample Results

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

Job ID: 380-189499-1
 SDG: PFAS: Moanalua Wells

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

Lab Sample ID: 380-189496-A-1-C MSD

Client Sample ID: Matrix Spike Duplicate

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 194988

Prep Batch: 194879

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		
N-ethylperfluorooctanesulfonamide doacetic acid (NEtFOSAA)	<2.0		50.2	52.7		ng/L		105	70 - 130	4	30
Perfluorohexanoic acid (PFHxA)	<2.0		50.2	52.7		ng/L		105	70 - 130	5	30
Perfluorododecanoic acid (PFDoA)	<2.0		50.2	54.0		ng/L		108	70 - 130	6	30
Perfluorooctanoic acid (PFOA)	<2.0		50.2	55.5		ng/L		111	70 - 130	5	30
Perfluorodecanoic acid (PFDA)	<2.0		50.2	56.1		ng/L		112	70 - 130	6	30
Perfluorohexanesulfonic acid (PFHxS)	<2.0		50.2	54.4		ng/L		108	70 - 130	3	30
Perfluorobutanesulfonic acid (PFBS)	<2.0		50.2	53.4		ng/L		106	70 - 130	2	30
Perfluoroheptanoic acid (PFHpA)	<2.0		50.2	53.4		ng/L		106	70 - 130	1	30
Perfluorononanoic acid (PFNA)	<2.0		50.2	54.1		ng/L		108	70 - 130	7	30
Perfluorotetradecanoic acid (PFTA)	<2.0		50.2	48.0		ng/L		96	70 - 130	11	30
Perfluorotridecanoic acid (PFTrDA)	<2.0		50.2	55.8		ng/L		111	70 - 130	8	30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		50.2	54.3		ng/L		108	70 - 130	2	30
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		50.2	50.7		ng/L		101	70 - 130	1	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		50.2	52.1		ng/L		104	70 - 130	1	30
Surrogate	%Recovery	Qualifier	Limits								
d5-NEtFOSAA	109		70 - 130								
13C2 PFHxA	110		70 - 130								
13C2 PFDA	116		70 - 130								
13C3-GenX	107		70 - 130								

QC Association Summary

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

Job ID: 380-189499-1
 SDG: PFAS: Moanalua Wells

LCMS

Prep Batch: 194721

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-189499-1	MOANALUA WELLS (331-223-TP202)	Total/NA	Drinking Water	537.1 DW	
MBL 380-194721/22-A	Method Blank	Total/NA	Water	537.1 DW	
LCS 380-194721/24-A	Lab Control Sample	Total/NA	Water	537.1 DW	
MRL 380-194721/23-A	Lab Control Sample	Total/NA	Water	537.1 DW	
380-189499-1 MS	MOANALUA WELLS (331-223-TP202)	Total/NA	Drinking Water	537.1 DW	
380-189499-1 MSD	MOANALUA WELLS (331-223-TP202)	Total/NA	Drinking Water	537.1 DW	

Analysis Batch: 194745

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-189499-1	MOANALUA WELLS (331-223-TP202)	Total/NA	Drinking Water	537.1	194721
MBL 380-194721/22-A	Method Blank	Total/NA	Water	537.1	194721
LCS 380-194721/24-A	Lab Control Sample	Total/NA	Water	537.1	194721
MRL 380-194721/23-A	Lab Control Sample	Total/NA	Water	537.1	194721
380-189499-1 MS	MOANALUA WELLS (331-223-TP202)	Total/NA	Drinking Water	537.1	194721
380-189499-1 MSD	MOANALUA WELLS (331-223-TP202)	Total/NA	Drinking Water	537.1	194721

Prep Batch: 194879

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-189499-2	FB: MOANALUA WELLS (331-223-TP202)	Total/NA	Water	537.1 DW	
MBL 380-194879/20-A	Method Blank	Total/NA	Water	537.1 DW	
LCS 380-194879/22-A	Lab Control Sample	Total/NA	Water	537.1 DW	
MRL 380-194879/21-A	Lab Control Sample	Total/NA	Water	537.1 DW	
380-189496-A-1-B MS	Matrix Spike	Total/NA	Water	537.1 DW	
380-189496-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	537.1 DW	

Analysis Batch: 194988

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-189499-2	FB: MOANALUA WELLS (331-223-TP202)	Total/NA	Water	537.1	194879
MBL 380-194879/20-A	Method Blank	Total/NA	Water	537.1	194879
LCS 380-194879/22-A	Lab Control Sample	Total/NA	Water	537.1	194879
MRL 380-194879/21-A	Lab Control Sample	Total/NA	Water	537.1	194879
380-189496-A-1-B MS	Matrix Spike	Total/NA	Water	537.1	194879
380-189496-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	537.1	194879

Prep Batch: 195193

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-189499-1	MOANALUA WELLS (331-223-TP202)	Total/NA	Drinking Water	533	
380-189499-2	FB: MOANALUA WELLS (331-223-TP202)	Total/NA	Water	533	
MBL 380-195193/20-A	Method Blank	Total/NA	Water	533	
LCS 380-195193/22-A	Lab Control Sample	Total/NA	Water	533	
MRL 380-195193/21-A	Lab Control Sample	Total/NA	Water	533	
380-189496-B-1-A MS	Matrix Spike	Total/NA	Water	533	
380-189496-B-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	533	

Analysis Batch: 195228

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-189499-1	MOANALUA WELLS (331-223-TP202)	Total/NA	Drinking Water	533	195193
380-189499-2	FB: MOANALUA WELLS (331-223-TP202)	Total/NA	Water	533	195193
MBL 380-195193/20-A	Method Blank	Total/NA	Water	533	195193
LCS 380-195193/22-A	Lab Control Sample	Total/NA	Water	533	195193
MRL 380-195193/21-A	Lab Control Sample	Total/NA	Water	533	195193

QC Association Summary

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

Job ID: 380-189499-1
SDG: PFAS: Moanalua Wells

LCMS (Continued)

Analysis Batch: 195228 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-189496-B-1-A MS	Matrix Spike	Total/NA	Water	533	195193
380-189496-B-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	533	195193

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Lab Chronicle

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

Job ID: 380-189499-1
SDG: PFAS: Moanalua Wells

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

Lab Sample ID: 380-189499-1

Date Collected: 12/22/25 09:13

Matrix: Drinking Water

Date Received: 12/24/25 10:37

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			195193	N8NE	EA POM	12/30/25 20:27
Total/NA	Analysis	533		1	195228	SZ9R	EA POM	12/31/25 14:37
Total/NA	Prep	537.1 DW			194721	E9PK	EA POM	12/27/25 06:41
Total/NA	Analysis	537.1		1	194745	SZ9R	EA POM	12/28/25 13:34

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

Lab Sample ID: 380-189499-2

Date Collected: 12/22/25 09:13

Matrix: Water

Date Received: 12/24/25 10:37

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			195193	N8NE	EA POM	12/30/25 20:27
Total/NA	Analysis	533		1	195228	SZ9R	EA POM	12/31/25 14:47
Total/NA	Prep	537.1 DW			194879	E2HD	EA POM	12/29/25 16:25
Total/NA	Analysis	537.1		1	194988	SZ9R	EA POM	12/30/25 22:19

Laboratory References:

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

Accreditation/Certification Summary

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

Job ID: 380-189499-1
SDG: PFAS: Moanalua Wells

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

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Method Summary

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

Job ID: 380-189499-1
SDG: PFAS: Moanalua Wells

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: 380-189499-1
SDG: PFAS: Moanalua Wells

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	PWSID Number
380-189499-1	MOANALUA WELLS (331-223-TP202)	Drinking Water	12/22/25 09:13	12/24/25 10:37	HI0000331
380-189499-2	FB: MOANALUA WELLS (331-223-TP202)	Water	12/22/25 09:13	12/24/25 10:37	HI0000331

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Mo'orea, CA (Suite 100)
 750 Royal Oaks Drive Suite 100
 Monterey, CA 91016
 Phone (626) 386-1100

Chain of Custody Record

eurofins
 Environment Testing
 America

Client Information Client Contact: kirk.jwamoto Company: City & County of Honolulu Address: 630 South Beretania Street, Chemistry Lab City: Honolulu State/Zip: HI 96843 Phone: 808-748-5840 (tel) Email: kiwamoto@hbws.org Project Name: RED-R L/HBWS sites Event Desc: RUSH Weekly Red Hill Site:		Sampler: bailey Phone: +1 808 748 5840 Lab PM: Lopez, Maria E-Mail: Maria.Lopez@eurofins.com Carrier Tracking No(s): State of Origin:		COC No: Page: Page 1 of 1 Job #:	
Due Date Requested: TAT Requested (days): Compliance Project: <input type="checkbox"/> No <input type="checkbox"/> Yes PO #: C20525101 exp 05312023 WFO #: Project #: 3500111 SSOV#:		Analysis Requested 60158_GRO LI - (MCD) GRO 60158_PRO LI - CS - INL Ranges C10-C24/C24-C36/C38- 767_PREC - (MCD) 1250mg PLUS TICs 57_DW_PREC 57 - Full List 633 All Analytes		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amohler H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 X - Nitro Y - Nitro Z - Char (specify)	
Sample Identification Name: Moanalua Wells Sample Date: 22-Dec-2025 Sample Time: 0913 Sample Type: G Matrix: Water		Total Number of Containers: 33 Special Inst or Cons: chlorinated		380-189499 COC QR Code	
Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Sample Disposal (A fee may be assessed if sample is not disposed of): <input type="checkbox"/> Return To Client <input type="checkbox"/> Dispose 5/ Lab Special Instructions/OC Requirements:		Method of Shipment: Date: 12/22/25 Company: BSA Company: BSA Company: BSA 0.7 / 0.7 63UA BLUE ICE PAY PRISON	



Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-189499-1
SDG Number: PFAS: Moanalua Wells

Login Number: 189499

List Number: 1

Creator: Segura, Ryan

List Source: Eurofins Pomona

Question	Answer	Comment
The coolers custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
Samples were received on ice.	True	
Cooler(s) Temperature is acceptable.	True	
Cooler(s) Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and is legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
ClO4 headspace requirement met (>50% for CA, >30% for other states).	True	
Samples do not require splitting or compositing.	True	
Container provided by EEA	True	

