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ANALYTICAL REPORT

PREPARED FOR

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City & County of Honolulu
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JOB DESCRIPTION

RED-HILL
PFAS: Ka'amilo Wells P2

JOB NUMBER

380-194004-1

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: 380-194004-1
SDG: PFAS: Ka'amilo Wells P2

Qualifiers

LCMS

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

Glossary

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

Case Narrative

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

Job ID: 380-194004-1

Job ID: 380-194004-1

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Job Narrative 380-194004-1

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

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

Receipt

The samples were received on 1/22/2026 9:55 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.3°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: 380-194004-1
 SDG: PFAS: Ka'amilo Wells P2

Client Sample ID: Ka'amilo Wells P2

Lab Sample ID: 380-194004-1

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid (PFBS)	3.2		2.0	ng/L	1		533	Total/NA
Perfluoroheptanoic acid (PFHpA)	2.0		2.0	ng/L	1		533	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	3.6		2.0	ng/L	1		533	Total/NA
Perfluorohexanoic acid (PFHxA)	4.0		2.0	ng/L	1		533	Total/NA
Perfluorooctanesulfonic acid (PFOS)	4.3		2.0	ng/L	1		533	Total/NA
Perfluorooctanoic acid (PFOA)	3.6		2.0	ng/L	1		533	Total/NA
Perfluoropentanoic acid (PFPeA)	3.7		2.0	ng/L	1		533	Total/NA
Perfluorooctanesulfonic acid (PFOS)	4.6		2.0	ng/L	1		537.1	Total/NA
Perfluorohexanoic acid (PFHxA)	4.1		2.0	ng/L	1		537.1	Total/NA
Perfluorooctanoic acid (PFOA)	4.1		2.0	ng/L	1		537.1	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	3.9		2.0	ng/L	1		537.1	Total/NA
Perfluorobutanesulfonic acid (PFBS)	3.3		2.0	ng/L	1		537.1	Total/NA
Perfluoroheptanoic acid (PFHpA)	2.1		2.0	ng/L	1		537.1	Total/NA

Client Sample ID: Ka'amilo Wells P2 Blank

Lab Sample ID: 380-194004-2

No Detections.

This Detection Summary does not include radiochemical test results.



Client Sample Results

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

Job ID: 380-194004-1
SDG: PFAS: Ka'amilo Wells P2

Client Sample ID: Ka'amilo Wells P2

Lab Sample ID: 380-194004-1

Date Collected: 01/20/26 12:07

Matrix: Water

Date Received: 01/22/26 09:55

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		01/23/26 16:22	01/24/26 20:03	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		01/23/26 16:22	01/24/26 20:03	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		01/23/26 16:22	01/24/26 20:03	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		01/23/26 16:22	01/24/26 20:03	1
Perfluorobutanesulfonic acid (PFBS)	3.2		2.0	ng/L		01/23/26 16:22	01/24/26 20:03	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		01/23/26 16:22	01/24/26 20:03	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		01/23/26 16:22	01/24/26 20:03	1
Perfluoroheptanoic acid (PFHpA)	2.0		2.0	ng/L		01/23/26 16:22	01/24/26 20:03	1
Perfluorohexanesulfonic acid (PFHxS)	3.6		2.0	ng/L		01/23/26 16:22	01/24/26 20:03	1
Perfluorohexanoic acid (PFHxA)	4.0		2.0	ng/L		01/23/26 16:22	01/24/26 20:03	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		01/23/26 16:22	01/24/26 20:03	1
Perfluorooctanesulfonic acid (PFOS)	4.3		2.0	ng/L		01/23/26 16:22	01/24/26 20:03	1
Perfluorooctanoic acid (PFOA)	3.6		2.0	ng/L		01/23/26 16:22	01/24/26 20:03	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		01/23/26 16:22	01/24/26 20:03	1
Perfluorobutanoic acid (PFBA)	<2.0		2.0	ng/L		01/23/26 16:22	01/24/26 20:03	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0	ng/L		01/23/26 16:22	01/24/26 20:03	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0	ng/L		01/23/26 16:22	01/24/26 20:03	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0	ng/L		01/23/26 16:22	01/24/26 20:03	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		2.0	ng/L		01/23/26 16:22	01/24/26 20:03	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<2.0		2.0	ng/L		01/23/26 16:22	01/24/26 20:03	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		01/23/26 16:22	01/24/26 20:03	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		01/23/26 16:22	01/24/26 20:03	1
Perfluoropentanoic acid (PFPeA)	3.7		2.0	ng/L		01/23/26 16:22	01/24/26 20:03	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		01/23/26 16:22	01/24/26 20:03	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		01/23/26 16:22	01/24/26 20:03	1
Isotope Dilution	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	104		50 - 200			01/23/26 16:22	01/24/26 20:03	1
13C6 PFDA	111		50 - 200			01/23/26 16:22	01/24/26 20:03	1
13C5 PFHxA	105		50 - 200			01/23/26 16:22	01/24/26 20:03	1
13C4 PFHpA	108		50 - 200			01/23/26 16:22	01/24/26 20:03	1
13C8 PFOA	113		50 - 200			01/23/26 16:22	01/24/26 20:03	1
13C9 PFNA	116		50 - 200			01/23/26 16:22	01/24/26 20:03	1
13C7 PFUnA	110		50 - 200			01/23/26 16:22	01/24/26 20:03	1
13C2 PFDoA	108		50 - 200			01/23/26 16:22	01/24/26 20:03	1
13C4 PFBA	108		50 - 200			01/23/26 16:22	01/24/26 20:03	1
13C5 PFPeA	119		50 - 200			01/23/26 16:22	01/24/26 20:03	1
13C3 PFBS	109		50 - 200			01/23/26 16:22	01/24/26 20:03	1

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Client Sample Results

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

Job ID: 380-194004-1
SDG: PFAS: Ka'amilo Wells P2

Client Sample ID: Ka'amilo Wells P2

Lab Sample ID: 380-194004-1

Date Collected: 01/20/26 12:07

Matrix: Water

Date Received: 01/22/26 09:55

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 PFHxS	109		50 - 200	01/23/26 16:22	01/24/26 20:03	1
13C8 PFOS	110		50 - 200	01/23/26 16:22	01/24/26 20:03	1
13C2-4:2-FTS	118		50 - 200	01/23/26 16:22	01/24/26 20:03	1
13C2-6:2-FTS	124		50 - 200	01/23/26 16:22	01/24/26 20:03	1
13C2-8:2-FTS	119		50 - 200	01/23/26 16:22	01/24/26 20:03	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		01/23/26 16:18	01/24/26 21:56	1
Perfluorooctanesulfonic acid (PFOS)	4.6		2.0	ng/L		01/23/26 16:18	01/24/26 21:56	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		01/23/26 16:18	01/24/26 21:56	1
N-methylperfluorooctanesulfonamide acetic acid (NMeFOSAA)	<2.0		2.0	ng/L		01/23/26 16:18	01/24/26 21:56	1
N-ethylperfluorooctanesulfonamide acetic acid (NEtFOSAA)	<2.0		2.0	ng/L		01/23/26 16:18	01/24/26 21:56	1
Perfluorohexanoic acid (PFHxA)	4.1		2.0	ng/L		01/23/26 16:18	01/24/26 21:56	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		01/23/26 16:18	01/24/26 21:56	1
Perfluorooctanoic acid (PFOA)	4.1		2.0	ng/L		01/23/26 16:18	01/24/26 21:56	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		01/23/26 16:18	01/24/26 21:56	1
Perfluorohexanesulfonic acid (PFHxS)	3.9		2.0	ng/L		01/23/26 16:18	01/24/26 21:56	1
Perfluorobutanesulfonic acid (PFBS)	3.3		2.0	ng/L		01/23/26 16:18	01/24/26 21:56	1
Perfluoroheptanoic acid (PFHpA)	2.1		2.0	ng/L		01/23/26 16:18	01/24/26 21:56	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		01/23/26 16:18	01/24/26 21:56	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0	ng/L		01/23/26 16:18	01/24/26 21:56	1
Perfluorotridecanoic acid (PFTDA)	<2.0		2.0	ng/L		01/23/26 16:18	01/24/26 21:56	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		01/23/26 16:18	01/24/26 21:56	1
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		01/23/26 16:18	01/24/26 21:56	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		01/23/26 16:18	01/24/26 21:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	110		70 - 130			01/23/26 16:18	01/24/26 21:56	1
13C2 PFHxA	109		70 - 130			01/23/26 16:18	01/24/26 21:56	1
13C2 PFDA	116		70 - 130			01/23/26 16:18	01/24/26 21:56	1
13C3-GenX	107		70 - 130			01/23/26 16:18	01/24/26 21:56	1

Client Sample ID: Ka'amilo Wells P2 Blank

Lab Sample ID: 380-194004-2

Date Collected: 01/20/26 12:07

Matrix: Water

Date Received: 01/22/26 09:55

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		01/23/26 16:22	01/24/26 20:13	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		01/23/26 16:22	01/24/26 20:13	1

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Client Sample Results

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

Job ID: 380-194004-1
SDG: PFAS: Ka'amilo Wells P2

Client Sample ID: Ka'amilo Wells P2 Blank

Lab Sample ID: 380-194004-2

Date Collected: 01/20/26 12:07

Matrix: Water

Date Received: 01/22/26 09:55

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		01/23/26 16:22	01/24/26 20:13	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		01/23/26 16:22	01/24/26 20:13	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		01/23/26 16:22	01/24/26 20:13	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		01/23/26 16:22	01/24/26 20:13	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		01/23/26 16:22	01/24/26 20:13	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		01/23/26 16:22	01/24/26 20:13	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		01/23/26 16:22	01/24/26 20:13	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		01/23/26 16:22	01/24/26 20:13	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		01/23/26 16:22	01/24/26 20:13	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		01/23/26 16:22	01/24/26 20:13	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		01/23/26 16:22	01/24/26 20:13	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		01/23/26 16:22	01/24/26 20:13	1
Perfluorobutanoic acid (PFBA)	<2.0		2.0	ng/L		01/23/26 16:22	01/24/26 20:13	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0	ng/L		01/23/26 16:22	01/24/26 20:13	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0	ng/L		01/23/26 16:22	01/24/26 20:13	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0	ng/L		01/23/26 16:22	01/24/26 20:13	1
Nonafluoro-3,6-dioxahexanoic acid (NFDHA)	<2.0		2.0	ng/L		01/23/26 16:22	01/24/26 20:13	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<2.0		2.0	ng/L		01/23/26 16:22	01/24/26 20:13	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		01/23/26 16:22	01/24/26 20:13	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		01/23/26 16:22	01/24/26 20:13	1
Perfluoropentanoic acid (PFPeA)	<2.0		2.0	ng/L		01/23/26 16:22	01/24/26 20:13	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		01/23/26 16:22	01/24/26 20:13	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		01/23/26 16:22	01/24/26 20:13	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	103		50 - 200	01/23/26 16:22	01/24/26 20:13	1
13C6 PFDA	111		50 - 200	01/23/26 16:22	01/24/26 20:13	1
13C5 PFHxA	114		50 - 200	01/23/26 16:22	01/24/26 20:13	1
13C4 PFHpA	115		50 - 200	01/23/26 16:22	01/24/26 20:13	1
13C8 PFOA	119		50 - 200	01/23/26 16:22	01/24/26 20:13	1
13C9 PFNA	117		50 - 200	01/23/26 16:22	01/24/26 20:13	1
13C7 PFUnA	114		50 - 200	01/23/26 16:22	01/24/26 20:13	1
13C2 PFDoA	117		50 - 200	01/23/26 16:22	01/24/26 20:13	1
13C4 PFBA	109		50 - 200	01/23/26 16:22	01/24/26 20:13	1
13C5 PFPeA	108		50 - 200	01/23/26 16:22	01/24/26 20:13	1
13C3 PFBS	112		50 - 200	01/23/26 16:22	01/24/26 20:13	1
13C3 PFHxS	116		50 - 200	01/23/26 16:22	01/24/26 20:13	1
13C8 PFOS	117		50 - 200	01/23/26 16:22	01/24/26 20:13	1
13C2-4:2-FTS	116		50 - 200	01/23/26 16:22	01/24/26 20:13	1
13C2-6:2-FTS	129		50 - 200	01/23/26 16:22	01/24/26 20:13	1
13C2-8:2-FTS	122		50 - 200	01/23/26 16:22	01/24/26 20:13	1

Client Sample Results

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

Job ID: 380-194004-1
SDG: PFAS: Ka'amilo Wells P2

Client Sample ID: Ka'amilo Wells P2 Blank

Lab Sample ID: 380-194004-2

Date Collected: 01/20/26 12:07

Matrix: Water

Date Received: 01/22/26 09:55

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		01/23/26 16:18	01/24/26 22:05	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		01/23/26 16:18	01/24/26 22:05	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		01/23/26 16:18	01/24/26 22:05	1
N-methylperfluorooctanesulfonamide acetic acid (NMeFOSAA)	<2.0		2.0	ng/L		01/23/26 16:18	01/24/26 22:05	1
N-ethylperfluorooctanesulfonamide acetic acid (NEtFOSAA)	<2.0		2.0	ng/L		01/23/26 16:18	01/24/26 22:05	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		01/23/26 16:18	01/24/26 22:05	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		01/23/26 16:18	01/24/26 22:05	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		01/23/26 16:18	01/24/26 22:05	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		01/23/26 16:18	01/24/26 22:05	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		01/23/26 16:18	01/24/26 22:05	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		01/23/26 16:18	01/24/26 22:05	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		01/23/26 16:18	01/24/26 22:05	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		01/23/26 16:18	01/24/26 22:05	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0	ng/L		01/23/26 16:18	01/24/26 22:05	1
Perfluorotridecanoic acid (PFTrDA)	<2.0		2.0	ng/L		01/23/26 16:18	01/24/26 22:05	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	<2.0		2.0	ng/L		01/23/26 16:18	01/24/26 22:05	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		01/23/26 16:18	01/24/26 22:05	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		01/23/26 16:18	01/24/26 22:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	111		70 - 130			01/23/26 16:18	01/24/26 22:05	1
13C2 PFHxA	110		70 - 130			01/23/26 16:18	01/24/26 22:05	1
13C2 PFDA	111		70 - 130			01/23/26 16:18	01/24/26 22:05	1
13C3-GenX	104		70 - 130			01/23/26 16:18	01/24/26 22:05	1

Action Limit Summary

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

Job ID: 380-194004-1
SDG: PFAS: Ka'amilo Wells P2

Client Sample ID: Ka'amilo Wells P2

Lab Sample ID: 380-194004-1

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)	3.6		ng/L	10	2.0	533	Total/NA
Perfluorononanoic acid (PFNA)	<2.0		ng/L	10	2.0	533	Total/NA
Perfluorooctanesulfonic acid (PFOS)	4.3		ng/L	4	2.0	533	Total/NA
Perfluorooctanoic acid (PFOA)	3.6		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)	4.6		ng/L	4	2.0	537.1	Total/NA
Perfluorooctanoic acid (PFOA)	4.1		ng/L	4	2.0	537.1	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	3.9		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: Ka'amilo Wells P2 Blank

Lab Sample ID: 380-194004-2

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: 380-194004-1
 SDG: PFAS: Ka'amilo Wells P2

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

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	d5NEFOS	PFHxA	PFDA	GenX
		(70-130)	(70-130)	(70-130)	(70-130)
380-194002-B-1-A MS	Matrix Spike	108	111	110	104
380-194002-C-1-A MSD	Matrix Spike Duplicate	109	110	111	106
380-194004-1	Ka'amilo Wells P2	110	109	116	107
380-194004-2	Ka'amilo Wells P2 Blank	111	110	111	104
LCS 380-200589/21-A	Lab Control Sample	101	107	114	100
MBL 380-200589/19-A	Method Blank	101	106	113	94
MRL 380-200589/20-A	Lab Control Sample	109	111	114	105

Surrogate Legend

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



Isotope Dilution Summary

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

Job ID: 380-194004-1
 SDG: PFAS: Ka'amilo Wells P2

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

Matrix: Water

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	HFPODA (50-200)	C6PFDA (50-200)	13C5PHA (50-200)	C4PFHA (50-200)	C8PFOA (50-200)	C9PFNA (50-200)	13C7PUA (50-200)	PFD _o A (50-200)
380-194004-1	Ka'amilo Wells P2	104	111	105	108	113	116	110	108
380-194004-2	Ka'amilo Wells P2 Blank	103	111	114	115	119	117	114	117
380-194032-E-1-A MS	Matrix Spike	111	111	108	107	109	112	112	114
380-194032-F-1-A MSD	Matrix Spike Duplicate	113	113	110	108	112	112	112	114
LCS 380-200581/22-A	Lab Control Sample	104	112	108	108	108	111	111	113
MBL 380-200581/20-A	Method Blank	97	109	110	111	111	110	107	106
MRL 380-200581/21-A	Lab Control Sample	94	110	104	109	113	112	106	108

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)
380-194004-1	Ka'amilo Wells P2	108	119	109	109	110	118	124	119
380-194004-2	Ka'amilo Wells P2 Blank	109	108	112	116	117	116	129	122
380-194032-E-1-A MS	Matrix Spike	110	114	109	111	111	121	114	113
380-194032-F-1-A MSD	Matrix Spike Duplicate	107	115	116	116	114	126	122	122
LCS 380-200581/22-A	Lab Control Sample	114	115	114	112	110	118	117	121
MBL 380-200581/20-A	Method Blank	106	111	107	104	108	111	115	110
MRL 380-200581/21-A	Lab Control Sample	108	114	106	110	112	119	114	113

Surrogate Legend

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

QC Sample Results

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

Job ID: 380-194004-1
SDG: PFAS: Ka'amilo Wells P2

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

Lab Sample ID: MBL 380-200581/20-A
Matrix: Water
Analysis Batch: 200698

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 200581

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosfluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<0.30		2.0	ng/L		01/23/26 16:22	01/24/26 17:21	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<0.30		2.0	ng/L		01/23/26 16:22	01/24/26 17:21	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.60		2.0	ng/L		01/23/26 16:22	01/24/26 17:21	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<1.0		2.0	ng/L		01/23/26 16:22	01/24/26 17:21	1
Perfluorobutanesulfonic acid (PFBS)	<0.37		2.0	ng/L		01/23/26 16:22	01/24/26 17:21	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	ng/L		01/23/26 16:22	01/24/26 17:21	1
Perfluorododecanoic acid (PFDoA)	<0.54		2.0	ng/L		01/23/26 16:22	01/24/26 17:21	1
Perfluoroheptanoic acid (PFHpA)	<0.39		2.0	ng/L		01/23/26 16:22	01/24/26 17:21	1
Perfluorohexanesulfonic acid (PFHxS)	<0.32		2.0	ng/L		01/23/26 16:22	01/24/26 17:21	1
Perfluorohexanoic acid (PFHxA)	<0.46		2.0	ng/L		01/23/26 16:22	01/24/26 17:21	1
Perfluorononanoic acid (PFNA)	<0.40		2.0	ng/L		01/23/26 16:22	01/24/26 17:21	1
Perfluorooctanesulfonic acid (PFOS)	<0.43		2.0	ng/L		01/23/26 16:22	01/24/26 17:21	1
Perfluorooctanoic acid (PFOA)	<0.38		2.0	ng/L		01/23/26 16:22	01/24/26 17:21	1
Perfluoroundecanoic acid (PFUnA)	<0.42		2.0	ng/L		01/23/26 16:22	01/24/26 17:21	1
Perfluorobutanoic acid (PFBA)	<0.69		2.0	ng/L		01/23/26 16:22	01/24/26 17:21	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<0.38		2.0	ng/L		01/23/26 16:22	01/24/26 17:21	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<0.37		2.0	ng/L		01/23/26 16:22	01/24/26 17:21	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<0.48		2.0	ng/L		01/23/26 16:22	01/24/26 17:21	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.47		2.0	ng/L		01/23/26 16:22	01/24/26 17:21	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<0.25		2.0	ng/L		01/23/26 16:22	01/24/26 17:21	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.46		2.0	ng/L		01/23/26 16:22	01/24/26 17:21	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.15		2.0	ng/L		01/23/26 16:22	01/24/26 17:21	1
Perfluoropentanoic acid (PFPeA)	<0.38		2.0	ng/L		01/23/26 16:22	01/24/26 17:21	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.36		2.0	ng/L		01/23/26 16:22	01/24/26 17:21	1
Perfluoropentanesulfonic acid (PFPeS)	<0.39		2.0	ng/L		01/23/26 16:22	01/24/26 17:21	1

Isotope Dilution	MBL %Recovery	MBL Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	97		50 - 200	01/23/26 16:22	01/24/26 17:21	1
13C6 PFDA	109		50 - 200	01/23/26 16:22	01/24/26 17:21	1
13C5 PFHxA	110		50 - 200	01/23/26 16:22	01/24/26 17:21	1
13C4 PFHpA	111		50 - 200	01/23/26 16:22	01/24/26 17:21	1
13C8 PFOA	111		50 - 200	01/23/26 16:22	01/24/26 17:21	1
13C9 PFNA	110		50 - 200	01/23/26 16:22	01/24/26 17:21	1
13C7 PFUnA	107		50 - 200	01/23/26 16:22	01/24/26 17:21	1
13C2 PFDoA	106		50 - 200	01/23/26 16:22	01/24/26 17:21	1
13C4 PFBA	106		50 - 200	01/23/26 16:22	01/24/26 17:21	1
13C5 PFPeA	111		50 - 200	01/23/26 16:22	01/24/26 17:21	1
13C3 PFBS	107		50 - 200	01/23/26 16:22	01/24/26 17:21	1
13C3 PFHxS	104		50 - 200	01/23/26 16:22	01/24/26 17:21	1

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QC Sample Results

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

Job ID: 380-194004-1
SDG: PFAS: Ka'amilo Wells P2

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

Lab Sample ID: MBL 380-200581/20-A
Matrix: Water
Analysis Batch: 200698

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 200581

Isotope Dilution	MBL MBL		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C8 PFOS	108		50 - 200	01/23/26 16:22	01/24/26 17:21	1
13C2-4:2-FTS	111		50 - 200	01/23/26 16:22	01/24/26 17:21	1
13C2-6:2-FTS	115		50 - 200	01/23/26 16:22	01/24/26 17:21	1
13C2-8:2-FTS	110		50 - 200	01/23/26 16:22	01/24/26 17:21	1

Lab Sample ID: LCS 380-200581/22-A
Matrix: Water
Analysis Batch: 200698

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 200581

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	120	111		ng/L		92	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	120	111		ng/L		92	70 - 130
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	120	119		ng/L		99	70 - 130
Perfluorobutanesulfonic acid (PFBS)	120	109		ng/L		91	70 - 130
Perfluorodecanoic acid (PFDA)	120	113		ng/L		94	70 - 130
Perfluorododecanoic acid (PFDoA)	120	112		ng/L		93	70 - 130
Perfluoroheptanoic acid (PFHpA)	120	113		ng/L		94	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	120	112		ng/L		93	70 - 130
Perfluorohexanoic acid (PFHxA)	120	113		ng/L		94	70 - 130
Perfluorononanoic acid (PFNA)	120	112		ng/L		93	70 - 130
Perfluorooctanesulfonic acid (PFOS)	120	115		ng/L		95	70 - 130
Perfluorooctanoic acid (PFOA)	120	114		ng/L		95	70 - 130
Perfluoroundecanoic acid (PFUnA)	120	111		ng/L		92	70 - 130
Perfluorobutanoic acid (PFBA)	120	111		ng/L		92	70 - 130
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	120	106		ng/L		88	70 - 130
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	120	111		ng/L		92	70 - 130
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	120	117		ng/L		97	70 - 130
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	120	110		ng/L		92	70 - 130
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	120	102		ng/L		84	70 - 130
Perfluoro-3-methoxypropanoic acid (PFMPA)	120	113		ng/L		94	70 - 130
Perfluoro-4-methoxybutanoic acid (PFMBA)	120	108		ng/L		89	70 - 130
Perfluoropentanoic acid (PFPeA)	120	110		ng/L		92	70 - 130
Perfluoroheptanesulfonic acid (PFHpS)	120	115		ng/L		95	70 - 130

QC Sample Results

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

Job ID: 380-194004-1
SDG: PFAS: Ka'amilo Wells P2

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

Lab Sample ID: LCS 380-200581/22-A
Matrix: Water
Analysis Batch: 200698

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 200581

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoropentanesulfonic acid (PFPeS)	120	113		ng/L		94	70 - 130
LCS LCS							
Isotope Dilution	%Recovery	Qualifier	Limits				
13C3 HFPO-DA	104		50 - 200				
13C6 PFDA	112		50 - 200				
13C5 PFHxA	108		50 - 200				
13C4 PFHpA	108		50 - 200				
13C8 PFOA	108		50 - 200				
13C9 PFNA	111		50 - 200				
13C7 PFUnA	111		50 - 200				
13C2 PFDoA	113		50 - 200				
13C4 PFBA	114		50 - 200				
13C5 PFPeA	115		50 - 200				
13C3 PFBS	114		50 - 200				
13C3 PFHxS	112		50 - 200				
13C8 PFOS	110		50 - 200				
13C2-4:2-FTS	118		50 - 200				
13C2-6:2-FTS	117		50 - 200				
13C2-8:2-FTS	121		50 - 200				

Lab Sample ID: MRL 380-200581/21-A
Matrix: Water
Analysis Batch: 200698

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 200581

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.01	1.92	J	ng/L		96	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	2.01	1.99	J	ng/L		99	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	2.01	1.92	J	ng/L		95	50 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	2.01	1.91	J	ng/L		95	50 - 150
Perfluorobutanesulfonic acid (PFBS)	2.01	2.08	J	ng/L		104	50 - 150
Perfluorodecanoic acid (PFDA)	2.01	1.94	J	ng/L		96	50 - 150
Perfluorododecanoic acid (PFDoA)	2.01	2.05	J	ng/L		102	50 - 150
Perfluoroheptanoic acid (PFHpA)	2.01	1.92	J	ng/L		96	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	2.01	1.96	J	ng/L		97	50 - 150
Perfluorohexanoic acid (PFHxA)	2.01	2.04	J	ng/L		102	50 - 150
Perfluorononanoic acid (PFNA)	2.01	2.08	J	ng/L		104	50 - 150
Perfluorooctanesulfonic acid (PFOS)	2.01	2.05	J	ng/L		102	50 - 150
Perfluorooctanoic acid (PFOA)	2.01	1.99	J	ng/L		99	50 - 150
Perfluoroundecanoic acid (PFUnA)	2.01	1.94	J	ng/L		96	50 - 150
Perfluorobutanoic acid (PFBA)	2.01	2.01	J	ng/L		100	50 - 150

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QC Sample Results

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

Job ID: 380-194004-1
SDG: PFAS: Ka'amilo Wells P2

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

Lab Sample ID: MRL 380-200581/21-A
Matrix: Water
Analysis Batch: 200698

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 200581

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	2.01	2.12	J	ng/L		105	50 - 150
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	2.01	2.09	J	ng/L		104	50 - 150
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	2.01	2.47	J	ng/L		123	50 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	2.01	1.81	J	ng/L		90	50 - 150
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	2.01	2.28	J	ng/L		113	50 - 150
Perfluoro-3-methoxypropanoic acid (PFMPA)	2.01	1.94	J	ng/L		97	50 - 150
Perfluoro-4-methoxybutanoic acid (PFMBA)	2.01	1.85	J	ng/L		92	50 - 150
Perfluoropentanoic acid (PFPeA)	2.01	1.86	J	ng/L		93	50 - 150
Perfluoroheptanesulfonic acid (PFHpS)	2.01	1.81	J	ng/L		90	50 - 150
Perfluoropentanesulfonic acid (PFPeS)	2.01	1.95	J	ng/L		97	50 - 150

Isotope Dilution	MRL %Recovery	MRL Qualifier	MRL Limits
13C3 HFPO-DA	94		50 - 200
13C6 PFDA	110		50 - 200
13C5 PFHxA	104		50 - 200
13C4 PFHpA	109		50 - 200
13C8 PFOA	113		50 - 200
13C9 PFNA	112		50 - 200
13C7 PFUnA	106		50 - 200
13C2 PFDoA	108		50 - 200
13C4 PFBA	108		50 - 200
13C5 PFPeA	114		50 - 200
13C3 PFBS	106		50 - 200
13C3 PFHxS	110		50 - 200
13C8 PFOS	112		50 - 200
13C2-4:2-FTS	119		50 - 200
13C2-6:2-FTS	114		50 - 200
13C2-8:2-FTS	113		50 - 200

Lab Sample ID: 380-194032-E-1-A MS
Matrix: Water
Analysis Batch: 200698

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 200581

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		121	114		ng/L		94	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		121	114		ng/L		94	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		121	116		ng/L		96	70 - 130

QC Sample Results

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

Job ID: 380-194004-1
SDG: PFAS: Ka'amilo Wells P2

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

Lab Sample ID: 380-194032-E-1-A MS

Client Sample ID: Matrix Spike

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 200698

Prep Batch: 200581

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier	Added	Result	Qualifier				
Hexafluoropropylene Oxide	<2.0		121	115		ng/L		96	70 - 130
Dimer Acid (HFPO-DA/GenX)									
Perfluorobutanesulfonic acid (PFBS)	<2.0		121	115		ng/L		95	70 - 130
Perfluorodecanoic acid (PFDA)	<2.0		121	117		ng/L		97	70 - 130
Perfluorododecanoic acid (PFDoA)	<2.0		121	114		ng/L		95	70 - 130
Perfluoroheptanoic acid (PFHpA)	<2.0		121	115		ng/L		95	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	<2.0		121	115		ng/L		95	70 - 130
Perfluorohexanoic acid (PFHxA)	<2.0		121	125		ng/L		103	70 - 130
Perfluorononanoic acid (PFNA)	<2.0		121	116		ng/L		96	70 - 130
Perfluorooctanesulfonic acid (PFOS)	<2.0		121	115		ng/L		96	70 - 130
Perfluorooctanoic acid (PFOA)	<2.0		121	115		ng/L		96	70 - 130
Perfluoroundecanoic acid (PFUnA)	<2.0		121	118		ng/L		97	70 - 130
Perfluorobutanoic acid (PFBA)	<2.0		121	115		ng/L		95	70 - 130
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		121	116		ng/L		96	70 - 130
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		121	115		ng/L		95	70 - 130
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		121	116		ng/L		96	70 - 130
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		121	114		ng/L		94	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	123		ng/L		102	70 - 130
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		121	116		ng/L		96	70 - 130
Perfluoropentanoic acid (PFPeA)	<2.0		121	110		ng/L		91	70 - 130
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		121	116		ng/L		96	70 - 130
Perfluoropentanesulfonic acid (PFPeS)	<2.0		121	114		ng/L		94	70 - 130

Isotope Dilution	MS MS		Limits
	%Recovery	Qualifier	
13C3 HFPO-DA	111		50 - 200
13C6 PFDA	111		50 - 200
13C5 PFHxA	108		50 - 200
13C4 PFHpA	107		50 - 200
13C8 PFOA	109		50 - 200
13C9 PFNA	112		50 - 200
13C7 PFUnA	112		50 - 200
13C2 PFDoA	114		50 - 200
13C4 PFBA	110		50 - 200
13C5 PFPeA	114		50 - 200
13C3 PFBS	109		50 - 200
13C3 PFHxS	111		50 - 200
13C8 PFOS	111		50 - 200

QC Sample Results

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

Job ID: 380-194004-1
SDG: PFAS: Ka'amilo Wells P2

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

Lab Sample ID: 380-194032-E-1-A MS

Client Sample ID: Matrix Spike

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 200698

Prep Batch: 200581

Isotope Dilution	MS MS		Limits
	%Recovery	Qualifier	
13C2-4:2-FTS	121		50 - 200
13C2-6:2-FTS	114		50 - 200
13C2-8:2-FTS	113		50 - 200

Lab Sample ID: 380-194032-F-1-A MSD

Client Sample ID: Matrix Spike Duplicate

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 200698

Prep Batch: 200581

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD MSD		Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
				Result	Qualifier						
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		120	112		ng/L		93	70 - 130	2	30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		120	113		ng/L		94	70 - 130	0	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		120	113		ng/L		94	70 - 130	3	30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		120	114		ng/L		94	70 - 130	1	30
Perfluorobutanesulfonic acid (PFBS)	<2.0		120	112		ng/L		93	70 - 130	3	30
Perfluorodecanoic acid (PFDA)	<2.0		120	113		ng/L		94	70 - 130	4	30
Perfluorododecanoic acid (PFDoA)	<2.0		120	110		ng/L		91	70 - 130	4	30
Perfluoroheptanoic acid (PFHpA)	<2.0		120	113		ng/L		94	70 - 130	1	30
Perfluorohexanesulfonic acid (PFHxS)	<2.0		120	107		ng/L		89	70 - 130	6	30
Perfluorohexanoic acid (PFHxA)	<2.0		120	116		ng/L		96	70 - 130	7	30
Perfluorononanoic acid (PFNA)	<2.0		120	116		ng/L		96	70 - 130	0	30
Perfluorooctanesulfonic acid (PFOS)	<2.0		120	115		ng/L		96	70 - 130	0	30
Perfluorooctanoic acid (PFOA)	<2.0		120	111		ng/L		92	70 - 130	4	30
Perfluoroundecanoic acid (PFUnA)	<2.0		120	112		ng/L		93	70 - 130	5	30
Perfluorobutanoic acid (PFBA)	<2.0		120	114		ng/L		94	70 - 130	1	30
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		120	114		ng/L		95	70 - 130	2	30
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		120	114		ng/L		95	70 - 130	1	30
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		120	114		ng/L		95	70 - 130	2	30
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		120	116		ng/L		96	70 - 130	2	30
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<2.0		120	116		ng/L		96	70 - 130	3	30
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		120	123		ng/L		102	70 - 130	0	30
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		120	113		ng/L		94	70 - 130	2	30
Perfluoropentanoic acid (PFPeA)	<2.0		120	111		ng/L		91	70 - 130	1	30
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		120	115		ng/L		95	70 - 130	1	30
Perfluoropentanesulfonic acid (PFPeS)	<2.0		120	117		ng/L		97	70 - 130	2	30

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QC Sample Results

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

Job ID: 380-194004-1
SDG: PFAS: Ka'amilo Wells P2

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

Isotope Dilution	MSD MSD		Limits
	%Recovery	Qualifier	
13C3 HFPO-DA	113		50 - 200
13C6 PFDA	113		50 - 200
13C5 PFHxA	110		50 - 200
13C4 PFHpA	108		50 - 200
13C8 PFOA	112		50 - 200
13C9 PFNA	112		50 - 200
13C7 PFUnA	112		50 - 200
13C2 PFDoA	114		50 - 200
13C4 PFBA	107		50 - 200
13C5 PFPeA	115		50 - 200
13C3 PFBS	116		50 - 200
13C3 PFHxS	116		50 - 200
13C8 PFOS	114		50 - 200
13C2-4:2-FTS	126		50 - 200
13C2-6:2-FTS	122		50 - 200
13C2-8:2-FTS	122		50 - 200

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

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

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

Analyte	MBL MBL		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<1.0		2.0	ng/L		01/23/26 16:18	01/24/26 18:57	1
Perfluorooctanesulfonic acid (PFOS)	<0.43		2.0	ng/L		01/23/26 16:18	01/24/26 18:57	1
Perfluoroundecanoic acid (PFUnA)	<0.42		2.0	ng/L		01/23/26 16:18	01/24/26 18:57	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.58		2.0	ng/L		01/23/26 16:18	01/24/26 18:57	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.42		2.0	ng/L		01/23/26 16:18	01/24/26 18:57	1
Perfluorohexanoic acid (PFHxA)	<0.46		2.0	ng/L		01/23/26 16:18	01/24/26 18:57	1
Perfluorododecanoic acid (PFDoA)	<0.54		2.0	ng/L		01/23/26 16:18	01/24/26 18:57	1
Perfluorooctanoic acid (PFOA)	<0.38		2.0	ng/L		01/23/26 16:18	01/24/26 18:57	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	ng/L		01/23/26 16:18	01/24/26 18:57	1
Perfluorohexanesulfonic acid (PFHxS)	<0.32		2.0	ng/L		01/23/26 16:18	01/24/26 18:57	1
Perfluorobutanesulfonic acid (PFBS)	<0.37		2.0	ng/L		01/23/26 16:18	01/24/26 18:57	1
Perfluoroheptanoic acid (PFHpA)	<0.39		2.0	ng/L		01/23/26 16:18	01/24/26 18:57	1
Perfluorononanoic acid (PFNA)	<0.40		2.0	ng/L		01/23/26 16:18	01/24/26 18:57	1
Perfluorotetradecanoic acid (PFTA)	<0.54		2.0	ng/L		01/23/26 16:18	01/24/26 18:57	1
Perfluorotridecanoic acid (PFTTrDA)	<0.36		2.0	ng/L		01/23/26 16:18	01/24/26 18:57	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<0.30		2.0	ng/L		01/23/26 16:18	01/24/26 18:57	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<0.30		2.0	ng/L		01/23/26 16:18	01/24/26 18:57	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.60		2.0	ng/L		01/23/26 16:18	01/24/26 18:57	1

Surrogate	MBL MBL		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
d5-NEtFOSAA	101		70 - 130	01/23/26 16:18	01/24/26 18:57	1
13C2 PFHxA	106		70 - 130	01/23/26 16:18	01/24/26 18:57	1
13C2 PFDA	113		70 - 130	01/23/26 16:18	01/24/26 18:57	1

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QC Sample Results

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

Job ID: 380-194004-1
 SDG: PFAS: Ka'amilo Wells P2

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

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

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

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

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

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

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

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

QC Sample Results

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

Job ID: 380-194004-1
SDG: PFAS: Ka'amilo Wells P2

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

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

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Hexafluoropropylene Oxide	2.00	1.99	J	ng/L		99	50 - 150
Dimer Acid (HFPO-DA/GenX)							
Perfluorooctanesulfonic acid (PFOS)	2.00	2.20	J	ng/L		110	50 - 150
Perfluoroundecanoic acid (PFUnA)	2.00	2.18	J	ng/L		109	50 - 150
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.00	2.13	J	ng/L		106	50 - 150
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.00	2.27	J	ng/L		113	50 - 150
Perfluorohexanoic acid (PFHxA)	2.00	2.30	J	ng/L		115	50 - 150
Perfluorododecanoic acid (PFDoA)	2.00	2.10	J	ng/L		105	50 - 150
Perfluorooctanoic acid (PFOA)	2.00	2.22	J	ng/L		111	50 - 150
Perfluorodecanoic acid (PFDA)	2.00	2.24	J	ng/L		112	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	2.00	2.14	J	ng/L		107	50 - 150
Perfluorobutanesulfonic acid (PFBS)	2.00	2.25	J	ng/L		112	50 - 150
Perfluoroheptanoic acid (PFHpA)	2.00	2.20	J	ng/L		110	50 - 150
Perfluorononanoic acid (PFNA)	2.00	2.47	J	ng/L		123	50 - 150
Perfluorotetradecanoic acid (PFTA)	2.00	1.55	J	ng/L		77	50 - 150
Perfluorotridecanoic acid (PFTrDA)	2.00	2.09	J	ng/L		105	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	2.00	2.12	J	ng/L		106	50 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.00	1.89	J	ng/L		94	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	2.00	2.16	J	ng/L		108	50 - 150
		MRL	MRL				
Surrogate	%Recovery	Qualifier	Limits				
d5-NEtFOSAA	109		70 - 130				
13C2 PFHxA	111		70 - 130				
13C2 PFDA	114		70 - 130				
13C3-GenX	105		70 - 130				

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

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 200589

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Hexafluoropropylene Oxide	<2.0		25.1	24.7		ng/L		99	70 - 130
Dimer Acid (HFPO-DA/GenX)									
Perfluorooctanesulfonic acid (PFOS)	<2.0		25.1	28.6		ng/L		110	70 - 130
Perfluoroundecanoic acid (PFUnA)	<2.0		25.1	27.1		ng/L		108	70 - 130
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		25.1	26.6		ng/L		106	70 - 130

QC Association Summary

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

Job ID: 380-194004-1
 SDG: PFAS: Ka'amilo Wells P2

LCMS

Prep Batch: 200581

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-194004-1	Ka'amilo Wells P2	Total/NA	Water	533	
380-194004-2	Ka'amilo Wells P2 Blank	Total/NA	Water	533	
MBL 380-200581/20-A	Method Blank	Total/NA	Water	533	
LCS 380-200581/22-A	Lab Control Sample	Total/NA	Water	533	
MRL 380-200581/21-A	Lab Control Sample	Total/NA	Water	533	
380-194032-E-1-A MS	Matrix Spike	Total/NA	Water	533	
380-194032-F-1-A MSD	Matrix Spike Duplicate	Total/NA	Water	533	

Prep Batch: 200589

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-194004-1	Ka'amilo Wells P2	Total/NA	Water	537.1 DW	
380-194004-2	Ka'amilo Wells P2 Blank	Total/NA	Water	537.1 DW	
MBL 380-200589/19-A	Method Blank	Total/NA	Water	537.1 DW	
LCS 380-200589/21-A	Lab Control Sample	Total/NA	Water	537.1 DW	
MRL 380-200589/20-A	Lab Control Sample	Total/NA	Water	537.1 DW	
380-194002-B-1-A MS	Matrix Spike	Total/NA	Water	537.1 DW	
380-194002-C-1-A MSD	Matrix Spike Duplicate	Total/NA	Water	537.1 DW	

Analysis Batch: 200698

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-194004-1	Ka'amilo Wells P2	Total/NA	Water	533	200581
380-194004-2	Ka'amilo Wells P2 Blank	Total/NA	Water	533	200581
MBL 380-200581/20-A	Method Blank	Total/NA	Water	533	200581
LCS 380-200581/22-A	Lab Control Sample	Total/NA	Water	533	200581
MRL 380-200581/21-A	Lab Control Sample	Total/NA	Water	533	200581
380-194032-E-1-A MS	Matrix Spike	Total/NA	Water	533	200581
380-194032-F-1-A MSD	Matrix Spike Duplicate	Total/NA	Water	533	200581

Analysis Batch: 200706

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-194004-1	Ka'amilo Wells P2	Total/NA	Water	537.1	200589
380-194004-2	Ka'amilo Wells P2 Blank	Total/NA	Water	537.1	200589
MBL 380-200589/19-A	Method Blank	Total/NA	Water	537.1	200589
LCS 380-200589/21-A	Lab Control Sample	Total/NA	Water	537.1	200589
MRL 380-200589/20-A	Lab Control Sample	Total/NA	Water	537.1	200589
380-194002-B-1-A MS	Matrix Spike	Total/NA	Water	537.1	200589
380-194002-C-1-A MSD	Matrix Spike Duplicate	Total/NA	Water	537.1	200589

Lab Chronicle

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

Job ID: 380-194004-1
SDG: PFAS: Ka'amilo Wells P2

Client Sample ID: Ka'amilo Wells P2

Lab Sample ID: 380-194004-1

Date Collected: 01/20/26 12:07

Matrix: Water

Date Received: 01/22/26 09:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			200581	E2HD	EA POM	01/23/26 16:22
Total/NA	Analysis	533		1	200698	M7ML	EA POM	01/24/26 20:03
Total/NA	Prep	537.1 DW			200589	N8NE	EA POM	01/23/26 16:18
Total/NA	Analysis	537.1		1	200706	SZ9R	EA POM	01/24/26 21:56

Client Sample ID: Ka'amilo Wells P2 Blank

Lab Sample ID: 380-194004-2

Date Collected: 01/20/26 12:07

Matrix: Water

Date Received: 01/22/26 09:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			200581	E2HD	EA POM	01/23/26 16:22
Total/NA	Analysis	533		1	200698	M7ML	EA POM	01/24/26 20:13
Total/NA	Prep	537.1 DW			200589	N8NE	EA POM	01/23/26 16:18
Total/NA	Analysis	537.1		1	200706	SZ9R	EA POM	01/24/26 22:05

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: 380-194004-1
SDG: PFAS: Ka'amilo Wells P2

Laboratory: Eurofins Pomona

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

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

- 1
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Method Summary

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

Job ID: 380-194004-1
SDG: PFAS: Ka'amilo Wells P2

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

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

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



Sample Summary

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

Job ID: 380-194004-1
SDG: PFAS: Ka'amilo Wells P2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
380-194004-1	Ka'amilo Wells P2	Water	01/20/26 12:07	01/22/26 09:55	Hawaii
380-194004-2	Ka'amilo Wells P2 Blank	Water	01/20/26 12:07	01/22/26 09:55	Hawaii

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- 17

Chain of Custody Record

Client Information Client Contact: KirK Iwamoto Phone: +1 808 748 5840 City & County of Honolulu		Lab PM: Arada, Rachelle E-Mail: Rachelle.Arada@et.euronisus.com Carrier Tracking No(s): 380-27941-2757.2 State of Origin:	
Address: 630 South Beretania Street, Chemistry Lab City: Honolulu State, Zip: HI, 96843 Phone: 808-748-5840 (tel) Email: kiwamoto@hbws.org Project Name: RED-HILL/HBWS sites Event Desc: RUSH Weekly Red Hill Site:		PWSID: Due Date Requested: TAT Requested (days): RUSH Compliance Project: <input type="checkbox"/> No PO #: C20525101 exp 05312023 WO #: Project #: 38001111 SSON#:	
Sample Identification Kaamilo Wells P2 Kaamilo Wells P2 Blank		Matrix (W=Water, S=Soil, O=Other, A=Air) Sample Type (C=Comp, G=grab) Sample Date: 20-Jan-2026 Sample Time: 12:07 Preservation Code: G Matrix: Water Total Number of Containers: <input checked="" type="checkbox"/>	
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		Special Instructions/Note: 380-194004 COC	
Deliverable Requested: <input type="checkbox"/> I, <input type="checkbox"/> II, <input type="checkbox"/> III, <input type="checkbox"/> IV, Other (specify)		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	
Empty Kit Relinquished by:		Special Instructions/QC Requirements:	
Date/Time: 1/21/26 11:00 Date/Time:		Date/Time: 1/22/26 9:55 Date/Time:	
Date/Time:		Date/Time:	
Company: HBWS Company:		Company:	
Relinquished by:		Received by:	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Cooler Temperature(s) °C and Other Remarks: 612-4.3 = 4.3 VER	



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

SHIP DATE: 21JAN26
ACTWGT: 62.00 LB
CAD: 258050552JINET14535

BILL RECIPIENT

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

58KJ47A7B/448B

POMONA CA 91768 REF
(626) 386-1100
INV PO:

DEPT:

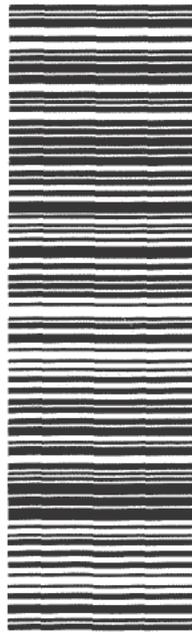


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4 of 13
MPS# **8881 0123 3143**
Mstr# 8881 0123 3110
WM ONTA 91768
CA - US ONT

THU - 22 JAN 10:30A
PRIORITY OVERNIGHT

0201



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

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Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-194004-1
SDG Number: PFAS: Ka'amilo Wells P2

Login Number: 194004

List Number: 1

Creator: Segura, Ryan

List Source: Eurofins Pomona

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

