

ANALYTICAL REPORT

PREPARED FOR

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JOB DESCRIPTION

RED-HILL
PFAS: Ka'amilo Wells P2

JOB NUMBER

380-227852-1

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



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Definitions/Glossary

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

Job ID: 380-227852-1
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: 380-227852-1

Job ID: 380-227852-1

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Job Narrative 380-227852-1

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 7/29/2026 10:40 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 2.2°C.

PFAS

EPA 537.1 and EPA 533 are two distinct methods for the analysis of PFAS in drinking water. The analyses are conducted on differing instrumentation, with calibrations, extraction solvents and sample preservatives being dissimilar among the two methods. Therefore it is probable and not unexpected to see the methods having slight variations in analytical results: Ka'amilo Wells P2 (331-600-WL085) (380-227852-1). (XWB4)

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

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Detection Summary

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

Job ID: 380-227852-1
SDG: PFAS: Ka'amilo Wells P2

Client Sample ID: Ka'amilo Wells P2 (331-600-WL085)

Lab Sample ID: 380-227852-1

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid (PFBS)	3.2		2.0	ng/L	1		533	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	3.6		2.0	ng/L	1		533	Total/NA
Perfluorohexanoic acid (PFHxA)	4.3		2.0	ng/L	1		533	Total/NA
Perfluorooctanesulfonic acid (PFOS)	4.6		2.0	ng/L	1		533	Total/NA
Perfluorooctanoic acid (PFOA)	4.1		2.0	ng/L	1		533	Total/NA
Perfluoropentanoic acid (PFPeA)	4.6		2.0	ng/L	1		533	Total/NA
Perfluorooctanesulfonic acid (PFOS)	5.0		2.0	ng/L	1		EPA 537.1 V2	Total/NA
Perfluorohexanoic acid (PFHxA)	4.5		2.0	ng/L	1		EPA 537.1 V2	Total/NA
Perfluorooctanoic acid (PFOA)	4.5		2.0	ng/L	1		EPA 537.1 V2	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	4.5		2.0	ng/L	1		EPA 537.1 V2	Total/NA
Perfluorobutanesulfonic acid (PFBS)	3.9		2.0	ng/L	1		EPA 537.1 V2	Total/NA
Perfluoroheptanoic acid (PFHpA)	2.2		2.0	ng/L	1		EPA 537.1 V2	Total/NA

Client Sample ID: FB: Ka'amilo Wells P2 (331-600-WL085)

Lab Sample ID: 380-227852-2

No Detections.

This Detection Summary does not include radiochemical test results.

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Client Sample Results

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

Job ID: 380-227852-1
SDG: PFAS: Ka'amilo Wells P2

Client Sample ID: Ka'amilo Wells P2 (331-600-WL085)

Lab Sample ID: 380-227852-1

Date Collected: 07/27/26 13:13

Matrix: Water

Date Received: 07/29/26 10:40

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid (11CI-PF3OUdS)	<2.0		2.0	ng/L		07/30/26 07:48	07/30/26 22:48	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9CI-PF3ONS)	<2.0		2.0	ng/L		07/30/26 07:48	07/30/26 22:48	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		07/30/26 07:48	07/30/26 22:48	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		07/30/26 07:48	07/30/26 22:48	1
Perfluorobutanesulfonic acid (PFBS)	3.2		2.0	ng/L		07/30/26 07:48	07/30/26 22:48	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		07/30/26 07:48	07/30/26 22:48	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		07/30/26 07:48	07/30/26 22:48	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		07/30/26 07:48	07/30/26 22:48	1
Perfluorohexanesulfonic acid (PFHxS)	3.6		2.0	ng/L		07/30/26 07:48	07/30/26 22:48	1
Perfluorohexanoic acid (PFHxA)	4.3		2.0	ng/L		07/30/26 07:48	07/30/26 22:48	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		07/30/26 07:48	07/30/26 22:48	1
Perfluorooctanesulfonic acid (PFOS)	4.6		2.0	ng/L		07/30/26 07:48	07/30/26 22:48	1
Perfluorooctanoic acid (PFOA)	4.1		2.0	ng/L		07/30/26 07:48	07/30/26 22:48	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		07/30/26 07:48	07/30/26 22:48	1
Perfluorobutanoic acid (PFBA)	<2.0		2.0	ng/L		07/30/26 07:48	07/30/26 22:48	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0	ng/L		07/30/26 07:48	07/30/26 22:48	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0	ng/L		07/30/26 07:48	07/30/26 22:48	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0	ng/L		07/30/26 07:48	07/30/26 22:48	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		2.0	ng/L		07/30/26 07:48	07/30/26 22:48	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<2.0		2.0	ng/L		07/30/26 07:48	07/30/26 22:48	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		07/30/26 07:48	07/30/26 22:48	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		07/30/26 07:48	07/30/26 22:48	1
Perfluoropentanoic acid (PFPeA)	4.6		2.0	ng/L		07/30/26 07:48	07/30/26 22:48	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		07/30/26 07:48	07/30/26 22:48	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		07/30/26 07:48	07/30/26 22:48	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	87		50 - 200	07/30/26 07:48	07/30/26 22:48	1
13C6 PFDA	93		50 - 200	07/30/26 07:48	07/30/26 22:48	1
13C5 PFHxA	93		50 - 200	07/30/26 07:48	07/30/26 22:48	1
13C4 PFHpA	95		50 - 200	07/30/26 07:48	07/30/26 22:48	1
13C8 PFOA	99		50 - 200	07/30/26 07:48	07/30/26 22:48	1
13C9 PFNA	101		50 - 200	07/30/26 07:48	07/30/26 22:48	1
13C7 PFUnA	102		50 - 200	07/30/26 07:48	07/30/26 22:48	1
13C2 PFDoA	102		50 - 200	07/30/26 07:48	07/30/26 22:48	1
13C4 PFBA	102		50 - 200	07/30/26 07:48	07/30/26 22:48	1
13C5 PFPeA	100		50 - 200	07/30/26 07:48	07/30/26 22:48	1
13C3 PFBS	102		50 - 200	07/30/26 07:48	07/30/26 22:48	1

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Client Sample Results

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

Job ID: 380-227852-1
SDG: PFAS: Ka'amilo Wells P2

Client Sample ID: Ka'amilo Wells P2 (331-600-WL085)

Lab Sample ID: 380-227852-1

Date Collected: 07/27/26 13:13

Matrix: Water

Date Received: 07/29/26 10:40

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 PFHxS	104		50 - 200	07/30/26 07:48	07/30/26 22:48	1
13C8 PFOS	108		50 - 200	07/30/26 07:48	07/30/26 22:48	1
13C2-4:2-FTS	106		50 - 200	07/30/26 07:48	07/30/26 22:48	1
13C2-6:2-FTS	98		50 - 200	07/30/26 07:48	07/30/26 22:48	1
13C2-8:2-FTS	98		50 - 200	07/30/26 07:48	07/30/26 22:48	1

Method: EPA 537.1 V2 - EPA 537.1 Ver. 2.0 March 2020

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		07/30/26 16:00	07/31/26 14:26	1
Perfluorooctanesulfonic acid (PFOS)	5.0		2.0	ng/L		07/30/26 16:00	07/31/26 14:26	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		07/30/26 16:00	07/31/26 14:26	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		2.0	ng/L		07/30/26 16:00	07/31/26 14:26	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		2.0	ng/L		07/30/26 16:00	07/31/26 14:26	1
Perfluorohexanoic acid (PFHxA)	4.5		2.0	ng/L		07/30/26 16:00	07/31/26 14:26	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		07/30/26 16:00	07/31/26 14:26	1
Perfluorooctanoic acid (PFOA)	4.5		2.0	ng/L		07/30/26 16:00	07/31/26 14:26	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		07/30/26 16:00	07/31/26 14:26	1
Perfluorohexanesulfonic acid (PFHxS)	4.5		2.0	ng/L		07/30/26 16:00	07/31/26 14:26	1
Perfluorobutanesulfonic acid (PFBS)	3.9		2.0	ng/L		07/30/26 16:00	07/31/26 14:26	1
Perfluoroheptanoic acid (PFHpA)	2.2		2.0	ng/L		07/30/26 16:00	07/31/26 14:26	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		07/30/26 16:00	07/31/26 14:26	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0	ng/L		07/30/26 16:00	07/31/26 14:26	1
Perfluorotridecanoic acid (PFTrDA)	<2.0		2.0	ng/L		07/30/26 16:00	07/31/26 14:26	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		07/30/26 16:00	07/31/26 14:26	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		07/30/26 16:00	07/31/26 14:26	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		07/30/26 16:00	07/31/26 14:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	116		70 - 130	07/30/26 16:00	07/31/26 14:26	1
13C2 PFHxA	120		70 - 130	07/30/26 16:00	07/31/26 14:26	1
13C2 PFDA	109		70 - 130	07/30/26 16:00	07/31/26 14:26	1
13C3-GenX	117		70 - 130	07/30/26 16:00	07/31/26 14:26	1

Client Sample ID: FB: Ka'amilo Wells P2 (331-600-WL085)

Lab Sample ID: 380-227852-2

Date Collected: 07/27/26 13:13

Matrix: Water

Date Received: 07/29/26 10:40

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		07/30/26 07:48	07/30/26 22:57	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		07/30/26 07:48	07/30/26 22:57	1

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Client Sample Results

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

Job ID: 380-227852-1
SDG: PFAS: Ka'amilo Wells P2

Client Sample ID: FB: Ka'amilo Wells P2 (331-600-WL085)

Lab Sample ID: 380-227852-2

Date Collected: 07/27/26 13:13

Matrix: Water

Date Received: 07/29/26 10:40

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		07/30/26 07:48	07/30/26 22:57	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		07/30/26 07:48	07/30/26 22:57	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		07/30/26 07:48	07/30/26 22:57	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		07/30/26 07:48	07/30/26 22:57	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		07/30/26 07:48	07/30/26 22:57	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		07/30/26 07:48	07/30/26 22:57	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		07/30/26 07:48	07/30/26 22:57	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		07/30/26 07:48	07/30/26 22:57	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		07/30/26 07:48	07/30/26 22:57	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		07/30/26 07:48	07/30/26 22:57	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		07/30/26 07:48	07/30/26 22:57	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		07/30/26 07:48	07/30/26 22:57	1
Perfluorobutanoic acid (PFBA)	<2.0		2.0	ng/L		07/30/26 07:48	07/30/26 22:57	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0	ng/L		07/30/26 07:48	07/30/26 22:57	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0	ng/L		07/30/26 07:48	07/30/26 22:57	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0	ng/L		07/30/26 07:48	07/30/26 22:57	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		2.0	ng/L		07/30/26 07:48	07/30/26 22:57	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<2.0		2.0	ng/L		07/30/26 07:48	07/30/26 22:57	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		07/30/26 07:48	07/30/26 22:57	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		07/30/26 07:48	07/30/26 22:57	1
Perfluoropentanoic acid (PFPeA)	<2.0		2.0	ng/L		07/30/26 07:48	07/30/26 22:57	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		07/30/26 07:48	07/30/26 22:57	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		07/30/26 07:48	07/30/26 22:57	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	94		50 - 200	07/30/26 07:48	07/30/26 22:57	1
13C6 PFDA	100		50 - 200	07/30/26 07:48	07/30/26 22:57	1
13C5 PFHxA	99		50 - 200	07/30/26 07:48	07/30/26 22:57	1
13C4 PFHpA	101		50 - 200	07/30/26 07:48	07/30/26 22:57	1
13C8 PFOA	106		50 - 200	07/30/26 07:48	07/30/26 22:57	1
13C9 PFNA	106		50 - 200	07/30/26 07:48	07/30/26 22:57	1
13C7 PFUnA	110		50 - 200	07/30/26 07:48	07/30/26 22:57	1
13C2 PFDoA	112		50 - 200	07/30/26 07:48	07/30/26 22:57	1
13C4 PFBA	103		50 - 200	07/30/26 07:48	07/30/26 22:57	1
13C5 PFPeA	102		50 - 200	07/30/26 07:48	07/30/26 22:57	1
13C3 PFBS	107		50 - 200	07/30/26 07:48	07/30/26 22:57	1
13C3 PFHxS	110		50 - 200	07/30/26 07:48	07/30/26 22:57	1
13C8 PFOS	114		50 - 200	07/30/26 07:48	07/30/26 22:57	1
13C2-4:2-FTS	105		50 - 200	07/30/26 07:48	07/30/26 22:57	1
13C2-6:2-FTS	101		50 - 200	07/30/26 07:48	07/30/26 22:57	1
13C2-8:2-FTS	106		50 - 200	07/30/26 07:48	07/30/26 22:57	1

Eurofins Pomona

Client Sample Results

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

Job ID: 380-227852-1
SDG: PFAS: Ka'amilo Wells P2

Client Sample ID: FB: Ka'amilo Wells P2 (331-600-WL085)

Lab Sample ID: 380-227852-2

Date Collected: 07/27/26 13:13

Matrix: Water

Date Received: 07/29/26 10:40

Method: EPA 537.1 V2 - EPA 537.1 Ver. 2.0 March 2020

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		07/30/26 16:00	07/31/26 14:36	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		07/30/26 16:00	07/31/26 14:36	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		07/30/26 16:00	07/31/26 14:36	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		2.0	ng/L		07/30/26 16:00	07/31/26 14:36	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		2.0	ng/L		07/30/26 16:00	07/31/26 14:36	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		07/30/26 16:00	07/31/26 14:36	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		07/30/26 16:00	07/31/26 14:36	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		07/30/26 16:00	07/31/26 14:36	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		07/30/26 16:00	07/31/26 14:36	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		07/30/26 16:00	07/31/26 14:36	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		07/30/26 16:00	07/31/26 14:36	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		07/30/26 16:00	07/31/26 14:36	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		07/30/26 16:00	07/31/26 14:36	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0	ng/L		07/30/26 16:00	07/31/26 14:36	1
Perfluorotridecanoic acid (PFTrDA)	<2.0		2.0	ng/L		07/30/26 16:00	07/31/26 14:36	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		07/30/26 16:00	07/31/26 14:36	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		07/30/26 16:00	07/31/26 14:36	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		07/30/26 16:00	07/31/26 14:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	109		70 - 130	07/30/26 16:00	07/31/26 14:36	1
13C2 PFHxA	120		70 - 130	07/30/26 16:00	07/31/26 14:36	1
13C2 PFDA	113		70 - 130	07/30/26 16:00	07/31/26 14:36	1
13C3-GenX	112		70 - 130	07/30/26 16:00	07/31/26 14:36	1

Action Limit Summary

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

Job ID: 380-227852-1
SDG: PFAS: Ka'amilo Wells P2

Client Sample ID: Ka'amilo Wells P2 (331-600-WL085)

Lab Sample ID: 380-227852-1

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 Limit	RL	Method	Prep Type
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		ng/L	10	2.0	533	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	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)	4.6		ng/L	4	2.0	533	Total/NA
Perfluorooctanoic acid (PFOA)	4.1		ng/L	4	2.0	533	Total/NA
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		ng/L	10	2.0	EPA 537.1 V2	Total/NA
Perfluorooctanesulfonic acid (PFOS)	5.0		ng/L	4	2.0	EPA 537.1 V2	Total/NA
Perfluorooctanoic acid (PFOA)	4.5		ng/L	4	2.0	EPA 537.1 V2	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	4.5		ng/L	10	2.0	EPA 537.1 V2	Total/NA
Perfluorononanoic acid (PFNA)	<2.0		ng/L	10	2.0	EPA 537.1 V2	Total/NA

Client Sample ID: FB: Ka'amilo Wells P2 (331-600-WL085)

Lab Sample ID: 380-227852-2

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 Limit	RL	Method	Prep Type
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		ng/L	10	2.0	533	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	<2.0		ng/L	10	2.0	533	Total/NA
Perfluorononanoic acid (PFNA)	<2.0		ng/L	10	2.0	533	Total/NA
Perfluorooctanesulfonic acid (PFOS)	<2.0		ng/L	4	2.0	533	Total/NA
Perfluorooctanoic acid (PFOA)	<2.0		ng/L	4	2.0	533	Total/NA
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		ng/L	10	2.0	EPA 537.1 V2	Total/NA
Perfluorooctanesulfonic acid (PFOS)	<2.0		ng/L	4	2.0	EPA 537.1 V2	Total/NA
Perfluorooctanoic acid (PFOA)	<2.0		ng/L	4	2.0	EPA 537.1 V2	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	<2.0		ng/L	10	2.0	EPA 537.1 V2	Total/NA
Perfluorononanoic acid (PFNA)	<2.0		ng/L	10	2.0	EPA 537.1 V2	Total/NA

Surrogate Summary

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

Job ID: 380-227852-1
SDG: PFAS: Ka'amilo Wells P2

Method: EPA 537.1 V2 - EPA 537.1 Ver. 2.0 March 2020

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)
380-227792-B-1-A MS	Matrix Spike	114	116	110	113
380-227792-C-1-A MSD	Matrix Spike Duplicate	114	120	116	117
380-227852-1	Ka'amilo Wells P2 (331-600-WL085)	116	120	109	117
380-227852-2	FB: Ka'amilo Wells P2 (331-600-WL085)	109	120	113	112
LCS 380-243515/22-A	Lab Control Sample	116	114	114	108
MBL 380-243515/20-A	Method Blank	113	117	117	110
MRL 380-243515/21-A	Lab Control Sample	115	118	118	108

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: 380-227852-1
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)	PFDaA (50-200)
380-227850-E-2-A MS	Matrix Spike	106	102	111	108	108	114	113	112
380-227850-F-2-A MSD	Matrix Spike Duplicate	105	101	108	105	107	110	110	110
380-227852-1	Ka'amilo Wells P2 (331-600-WL085)	87	93	93	95	99	101	102	102
380-227852-2	FB: Ka'amilo Wells P2 (331-600-WL085)	94	100	99	101	106	106	110	112
LCS 380-243404/22-A	Lab Control Sample	101	99	104	101	104	104	107	111
MBL 380-243404/20-A	Method Blank	85	95	94	97	100	102	104	107
MRL 380-243404/21-A	Lab Control Sample	85	92	92	94	97	102	102	100

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)
380-227850-E-2-A MS	Matrix Spike	108	111	107	107	111	109	99	100
380-227850-F-2-A MSD	Matrix Spike Duplicate	107	111	102	108	107	102	98	104
380-227852-1	Ka'amilo Wells P2 (331-600-WL085)	102	100	102	104	108	106	98	98
380-227852-2	FB: Ka'amilo Wells P2 (331-600-WL085)	103	102	107	110	114	105	101	106
LCS 380-243404/22-A	Lab Control Sample	101	101	110	110	108	108	102	102
MBL 380-243404/20-A	Method Blank	104	101	102	109	110	109	105	106
MRL 380-243404/21-A	Lab Control Sample	92	94	107	110	116	107	104	104

Surrogate Legend

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

QC Sample Results

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

Job ID: 380-227852-1
SDG: PFAS: Ka'amilo Wells P2

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

Lab Sample ID: MBL 380-243404/20-A

Matrix: Water

Analysis Batch: 243521

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 243404

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS)	<0.29		2.0	ng/L		07/30/26 07:48	07/30/26 19:53	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9CI-PF3ONS)	<0.29		2.0	ng/L		07/30/26 07:48	07/30/26 19:53	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.59		2.0	ng/L		07/30/26 07:48	07/30/26 19:53	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<0.98		2.0	ng/L		07/30/26 07:48	07/30/26 19:53	1
Perfluorobutanesulfonic acid (PFBS)	<0.36		2.0	ng/L		07/30/26 07:48	07/30/26 19:53	1
Perfluorodecanoic acid (PFDA)	<0.30		2.0	ng/L		07/30/26 07:48	07/30/26 19:53	1
Perfluorododecanoic acid (PFDoA)	<0.53		2.0	ng/L		07/30/26 07:48	07/30/26 19:53	1
Perfluoroheptanoic acid (PFHpA)	<0.38		2.0	ng/L		07/30/26 07:48	07/30/26 19:53	1
Perfluorohexanesulfonic acid (PFHxS)	<0.31		2.0	ng/L		07/30/26 07:48	07/30/26 19:53	1
Perfluorohexanoic acid (PFHxA)	<0.45		2.0	ng/L		07/30/26 07:48	07/30/26 19:53	1
Perfluorononanoic acid (PFNA)	<0.39		2.0	ng/L		07/30/26 07:48	07/30/26 19:53	1
Perfluorooctanesulfonic acid (PFOS)	<0.42		2.0	ng/L		07/30/26 07:48	07/30/26 19:53	1
Perfluorooctanoic acid (PFOA)	<0.37		2.0	ng/L		07/30/26 07:48	07/30/26 19:53	1
Perfluoroundecanoic acid (PFUnA)	<0.41		2.0	ng/L		07/30/26 07:48	07/30/26 19:53	1
Perfluorobutanoic acid (PFBA)	<0.68		2.0	ng/L		07/30/26 07:48	07/30/26 19:53	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<0.37		2.0	ng/L		07/30/26 07:48	07/30/26 19:53	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<0.36		2.0	ng/L		07/30/26 07:48	07/30/26 19:53	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<0.47		2.0	ng/L		07/30/26 07:48	07/30/26 19:53	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.46		2.0	ng/L		07/30/26 07:48	07/30/26 19:53	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<0.24		2.0	ng/L		07/30/26 07:48	07/30/26 19:53	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.45		2.0	ng/L		07/30/26 07:48	07/30/26 19:53	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.15		2.0	ng/L		07/30/26 07:48	07/30/26 19:53	1
Perfluoropentanoic acid (PFPeA)	<0.37		2.0	ng/L		07/30/26 07:48	07/30/26 19:53	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.35		2.0	ng/L		07/30/26 07:48	07/30/26 19:53	1
Perfluoropentanesulfonic acid (PFPeS)	<0.38		2.0	ng/L		07/30/26 07:48	07/30/26 19:53	1

Isotope Dilution	MBL %Recovery	MBL Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	85		50 - 200	07/30/26 07:48	07/30/26 19:53	1
13C6 PFDA	95		50 - 200	07/30/26 07:48	07/30/26 19:53	1
13C5 PFHxA	94		50 - 200	07/30/26 07:48	07/30/26 19:53	1
13C4 PFHpA	97		50 - 200	07/30/26 07:48	07/30/26 19:53	1
13C8 PFOA	100		50 - 200	07/30/26 07:48	07/30/26 19:53	1
13C9 PFNA	102		50 - 200	07/30/26 07:48	07/30/26 19:53	1
13C7 PFUnA	104		50 - 200	07/30/26 07:48	07/30/26 19:53	1
13C2 PFDoA	107		50 - 200	07/30/26 07:48	07/30/26 19:53	1
13C4 PFBA	104		50 - 200	07/30/26 07:48	07/30/26 19:53	1
13C5 PFPeA	101		50 - 200	07/30/26 07:48	07/30/26 19:53	1
13C3 PFBS	102		50 - 200	07/30/26 07:48	07/30/26 19:53	1
13C3 PFHxS	109		50 - 200	07/30/26 07:48	07/30/26 19:53	1

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QC Sample Results

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

Job ID: 380-227852-1
SDG: PFAS: Ka'amilo Wells P2

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

Lab Sample ID: MBL 380-243404/20-A

Matrix: Water

Analysis Batch: 243521

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 243404

Isotope Dilution	MBL %Recovery	MBL Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOS	110		50 - 200	07/30/26 07:48	07/30/26 19:53	1
13C2-4:2-FTS	109		50 - 200	07/30/26 07:48	07/30/26 19:53	1
13C2-6:2-FTS	105		50 - 200	07/30/26 07:48	07/30/26 19:53	1
13C2-8:2-FTS	106		50 - 200	07/30/26 07:48	07/30/26 19:53	1

Lab Sample ID: LCS 380-243404/22-A

Matrix: Water

Analysis Batch: 243521

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 243404

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
11-Chloroeicosfluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	118	101		ng/L		86	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	118	102		ng/L		86	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	118	102		ng/L		86	70 - 130
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	118	106		ng/L		90	70 - 130
Perfluorobutanesulfonic acid (PFBS)	118	104		ng/L		88	70 - 130
Perfluorodecanoic acid (PFDA)	118	114		ng/L		96	70 - 130
Perfluorododecanoic acid (PFDoA)	118	102		ng/L		87	70 - 130
Perfluoroheptanoic acid (PFHpA)	118	105		ng/L		89	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	118	103		ng/L		88	70 - 130
Perfluorohexanoic acid (PFHxA)	118	104		ng/L		88	70 - 130
Perfluorononanoic acid (PFNA)	118	103		ng/L		87	70 - 130
Perfluorooctanesulfonic acid (PFOS)	118	103		ng/L		87	70 - 130
Perfluorooctanoic acid (PFOA)	118	104		ng/L		88	70 - 130
Perfluoroundecanoic acid (PFUnA)	118	106		ng/L		90	70 - 130
Perfluorobutanoic acid (PFBA)	118	107		ng/L		91	70 - 130
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	118	103		ng/L		87	70 - 130
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	118	105		ng/L		88	70 - 130
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	118	108		ng/L		91	70 - 130
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	118	86.8		ng/L		73	70 - 130
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	118	103		ng/L		87	70 - 130
Perfluoro-3-methoxypropanoic acid (PFMPA)	118	104		ng/L		88	70 - 130
Perfluoro-4-methoxybutanoic acid (PFMBA)	118	106		ng/L		90	70 - 130
Perfluoropentanoic acid (PFPeA)	118	109		ng/L		92	70 - 130
Perfluoroheptanesulfonic acid (PFHpS)	118	109		ng/L		92	70 - 130

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QC Sample Results

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

Job ID: 380-227852-1
SDG: PFAS: Ka'amilo Wells P2

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

Lab Sample ID: LCS 380-243404/22-A

Matrix: Water

Analysis Batch: 243521

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 243404

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoropentanesulfonic acid (PFPeS)	118	103		ng/L		87	70 - 130
		LCS	LCS				
Isotope Dilution	%Recovery	Qualifier	Limits				
13C3 HFPO-DA	101		50 - 200				
13C6 PFDA	99		50 - 200				
13C5 PFHxA	104		50 - 200				
13C4 PFHpA	101		50 - 200				
13C8 PFOA	104		50 - 200				
13C9 PFNA	104		50 - 200				
13C7 PFUnA	107		50 - 200				
13C2 PFDoA	111		50 - 200				
13C4 PFBA	101		50 - 200				
13C5 PFPeA	101		50 - 200				
13C3 PFBS	110		50 - 200				
13C3 PFHxS	110		50 - 200				
13C8 PFOS	108		50 - 200				
13C2-4:2-FTS	108		50 - 200				
13C2-6:2-FTS	102		50 - 200				
13C2-8:2-FTS	102		50 - 200				

Lab Sample ID: MRL 380-243404/21-A

Matrix: Water

Analysis Batch: 243521

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 243404

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	1.97	1.85	J	ng/L		94	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	1.97	1.75	J	ng/L		89	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.97	1.76	J	ng/L		89	50 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	1.97	1.93	J	ng/L		98	50 - 150
Perfluorobutanesulfonic acid (PFBS)	1.97	1.87	J	ng/L		95	50 - 150
Perfluorodecanoic acid (PFDA)	1.97	2.07	J	ng/L		105	50 - 150
Perfluorododecanoic acid (PFDoA)	1.97	1.91	J	ng/L		97	50 - 150
Perfluoroheptanoic acid (PFHpA)	1.97	1.81	J	ng/L		92	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	1.97	1.82	J	ng/L		92	50 - 150
Perfluorohexanoic acid (PFHxA)	1.97	1.98	J	ng/L		101	50 - 150
Perfluorononanoic acid (PFNA)	1.97	1.80	J	ng/L		91	50 - 150
Perfluorooctanesulfonic acid (PFOS)	1.97	1.79	J	ng/L		91	50 - 150
Perfluorooctanoic acid (PFOA)	1.97	1.83	J	ng/L		93	50 - 150
Perfluoroundecanoic acid (PFUnA)	1.97	1.81	J	ng/L		92	50 - 150
Perfluorobutanoic acid (PFBA)	1.97	1.96	J	ng/L		99	50 - 150

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QC Sample Results

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

Job ID: 380-227852-1
SDG: PFAS: Ka'amilo Wells P2

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

Lab Sample ID: MRL 380-243404/21-A

Matrix: Water

Analysis Batch: 243521

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 243404

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	1.97	1.71	J	ng/L		87	50 - 150
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	1.97	1.91	J	ng/L		97	50 - 150
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	1.97	1.98	J	ng/L		100	50 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	1.97	1.58	J	ng/L		80	50 - 150
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	1.97	1.85	J	ng/L		94	50 - 150
Perfluoro-3-methoxypropanoic acid (PFMPA)	1.97	1.82	J	ng/L		93	50 - 150
Perfluoro-4-methoxybutanoic acid (PFMBA)	1.97	1.83	J	ng/L		93	50 - 150
Perfluoropentanoic acid (PFPeA)	1.97	1.94	J	ng/L		98	50 - 150
Perfluoroheptanesulfonic acid (PFHpS)	1.97	1.73	J	ng/L		88	50 - 150
Perfluoropentanesulfonic acid (PFPeS)	1.97	1.75	J	ng/L		89	50 - 150

Isotope Dilution	MRL %Recovery	MRL Qualifier	Limits
13C3 HFPO-DA	85		50 - 200
13C6 PFDA	92		50 - 200
13C5 PFHxA	92		50 - 200
13C4 PFHpA	94		50 - 200
13C8 PFOA	97		50 - 200
13C9 PFNA	102		50 - 200
13C7 PFUnA	102		50 - 200
13C2 PFDoA	100		50 - 200
13C4 PFBA	92		50 - 200
13C5 PFPeA	94		50 - 200
13C3 PFBS	107		50 - 200
13C3 PFHxS	110		50 - 200
13C8 PFOS	116		50 - 200
13C2-4:2-FTS	107		50 - 200
13C2-6:2-FTS	104		50 - 200
13C2-8:2-FTS	104		50 - 200

Lab Sample ID: 380-227850-E-2-A MS

Matrix: Water

Analysis Batch: 243521

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 243404

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
11-Chloroeicosfluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		119	99.8		ng/L		84	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		119	99.7		ng/L		84	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		119	106		ng/L		90	70 - 130

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QC Sample Results

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

Job ID: 380-227852-1
SDG: PFAS: Ka'amilo Wells P2

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

Lab Sample ID: 380-227850-E-2-A MS

Matrix: Water

Analysis Batch: 243521

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 243404

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Hexafluoropropylene Oxide	<2.0		119	112		ng/L		94	70 - 130
Dimer Acid (HFPO-DA/GenX)									
Perfluorobutanesulfonic acid (PFBS)	<2.0		119	110		ng/L		91	70 - 130
Perfluorodecanoic acid (PFDA)	<2.0		119	118		ng/L		100	70 - 130
Perfluorododecanoic acid (PFDoA)	<2.0		119	106		ng/L		89	70 - 130
Perfluoroheptanoic acid (PFHpA)	<2.0		119	107		ng/L		90	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	<2.0		119	109		ng/L		91	70 - 130
Perfluorohexanoic acid (PFHxA)	<2.0		119	109		ng/L		91	70 - 130
Perfluorononanoic acid (PFNA)	<2.0		119	104		ng/L		87	70 - 130
Perfluorooctanesulfonic acid (PFOS)	6.9		119	110		ng/L		87	70 - 130
Perfluorooctanoic acid (PFOA)	<2.0		119	113		ng/L		93	70 - 130
Perfluoroundecanoic acid (PFUnA)	<2.0		119	105		ng/L		89	70 - 130
Perfluorobutanoic acid (PFBA)	<2.0		119	109		ng/L		91	70 - 130
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		119	105		ng/L		89	70 - 130
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		119	106		ng/L		90	70 - 130
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		119	115		ng/L		97	70 - 130
Nonafluoro-3,6-dioxahexanoic acid (NFDHA)	<2.0		119	92.2		ng/L		78	70 - 130
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<2.0		119	108		ng/L		91	70 - 130
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		119	109		ng/L		92	70 - 130
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		119	109		ng/L		92	70 - 130
Perfluoropentanoic acid (PFPeA)	<2.0		119	115		ng/L		96	70 - 130
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		119	103		ng/L		87	70 - 130
Perfluoropentanesulfonic acid (PFPeS)	<2.0		119	107		ng/L		90	70 - 130

Isotope Dilution	MS %Recovery	MS Qualifier	Limits
13C3 HFPO-DA	106		50 - 200
13C6 PFDA	102		50 - 200
13C5 PFHxA	111		50 - 200
13C4 PFHpA	108		50 - 200
13C8 PFOA	108		50 - 200
13C9 PFNA	114		50 - 200
13C7 PFUnA	113		50 - 200
13C2 PFDoA	112		50 - 200
13C4 PFBA	108		50 - 200
13C5 PFPeA	111		50 - 200
13C3 PFBS	107		50 - 200
13C3 PFHxS	107		50 - 200
13C8 PFOS	111		50 - 200

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QC Sample Results

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

Job ID: 380-227852-1
SDG: PFAS: Ka'amilo Wells P2

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

Lab Sample ID: 380-227850-E-2-A MS

Matrix: Water

Analysis Batch: 243521

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 243404

Isotope Dilution	MS %Recovery	MS Qualifier	Limits
13C2-4:2-FTS	109		50 - 200
13C2-6:2-FTS	99		50 - 200
13C2-8:2-FTS	100		50 - 200

Lab Sample ID: 380-227850-F-2-A MSD

Matrix: Water

Analysis Batch: 243521

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 243404

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
11-Chloroeicosfluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		118	104		ng/L		88	70 - 130	4	30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	<2.0		118	103		ng/L		87	70 - 130	3	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		118	110		ng/L		93	70 - 130	4	30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		118	113		ng/L		95	70 - 130	1	30
Perfluorobutanesulfonic acid (PFBS)	<2.0		118	114		ng/L		94	70 - 130	3	30
Perfluorodecanoic acid (PFDA)	<2.0		118	118		ng/L		100	70 - 130	0	30
Perfluorododecanoic acid (PFDaA)	<2.0		118	107		ng/L		90	70 - 130	1	30
Perfluoroheptanoic acid (PFHpA)	<2.0		118	107		ng/L		90	70 - 130	0	30
Perfluorohexanesulfonic acid (PFHxS)	<2.0		118	107		ng/L		89	70 - 130	2	30
Perfluorohexanoic acid (PFHxA)	<2.0		118	108		ng/L		90	70 - 130	2	30
Perfluorononanoic acid (PFNA)	<2.0		118	106		ng/L		90	70 - 130	3	30
Perfluorooctanesulfonic acid (PFOS)	6.9		118	112		ng/L		89	70 - 130	1	30
Perfluorooctanoic acid (PFOA)	<2.0		118	112		ng/L		93	70 - 130	1	30
Perfluoroundecanoic acid (PFUnA)	<2.0		118	105		ng/L		89	70 - 130	0	30
Perfluorobutanoic acid (PFBA)	<2.0		118	111		ng/L		92	70 - 130	1	30
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		118	103		ng/L		87	70 - 130	2	30
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		118	113		ng/L		95	70 - 130	6	30
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		118	108		ng/L		92	70 - 130	6	30
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		118	90.7		ng/L		77	70 - 130	2	30
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEA)	<2.0		118	107		ng/L		90	70 - 130	1	30
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		118	110		ng/L		93	70 - 130	0	30
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		118	110		ng/L		93	70 - 130	1	30
Perfluoropentanoic acid (PFPeA)	<2.0		118	113		ng/L		95	70 - 130	2	30
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		118	109		ng/L		92	70 - 130	5	30
Perfluoropentanesulfonic acid (PFPeS)	<2.0		118	106		ng/L		89	70 - 130	1	30

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QC Sample Results

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

Job ID: 380-227852-1
SDG: PFAS: Ka'amilo Wells P2

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

Isotope Dilution	MSD %Recovery	MSD Qualifier	Limits
13C3 HFPO-DA	105		50 - 200
13C6 PFDA	101		50 - 200
13C5 PFHxA	108		50 - 200
13C4 PFHpA	105		50 - 200
13C8 PFOA	107		50 - 200
13C9 PFNA	110		50 - 200
13C7 PFUnA	110		50 - 200
13C2 PFDoA	110		50 - 200
13C4 PFBA	107		50 - 200
13C5 PFPeA	111		50 - 200
13C3 PFBS	102		50 - 200
13C3 PFHxS	108		50 - 200
13C8 PFOS	107		50 - 200
13C2-4:2-FTS	102		50 - 200
13C2-6:2-FTS	98		50 - 200
13C2-8:2-FTS	104		50 - 200

Method: EPA 537.1 V2 - EPA 537.1 Ver. 2.0 March 2020

Lab Sample ID: MBL 380-243515/20-A
Matrix: Water
Analysis Batch: 243645

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 243515

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<0.98		2.0	ng/L		07/30/26 16:00	07/31/26 11:04	1
Perfluorooctanesulfonic acid (PFOS)	<0.42		2.0	ng/L		07/30/26 16:00	07/31/26 11:04	1
Perfluoroundecanoic acid (PFUnA)	<0.41		2.0	ng/L		07/30/26 16:00	07/31/26 11:04	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.57		2.0	ng/L		07/30/26 16:00	07/31/26 11:04	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.41		2.0	ng/L		07/30/26 16:00	07/31/26 11:04	1
Perfluorohexanoic acid (PFHxA)	<0.45		2.0	ng/L		07/30/26 16:00	07/31/26 11:04	1
Perfluorododecanoic acid (PFDoA)	<0.53		2.0	ng/L		07/30/26 16:00	07/31/26 11:04	1
Perfluorooctanoic acid (PFOA)	<0.37		2.0	ng/L		07/30/26 16:00	07/31/26 11:04	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	ng/L		07/30/26 16:00	07/31/26 11:04	1
Perfluorohexanesulfonic acid (PFHxS)	<0.31		2.0	ng/L		07/30/26 16:00	07/31/26 11:04	1
Perfluorobutanesulfonic acid (PFBS)	<0.36		2.0	ng/L		07/30/26 16:00	07/31/26 11:04	1
Perfluoroheptanoic acid (PFHpA)	<0.38		2.0	ng/L		07/30/26 16:00	07/31/26 11:04	1
Perfluorononanoic acid (PFNA)	<0.39		2.0	ng/L		07/30/26 16:00	07/31/26 11:04	1
Perfluorotetradecanoic acid (PFTA)	<0.53		2.0	ng/L		07/30/26 16:00	07/31/26 11:04	1
Perfluorotridecanoic acid (PFTrDA)	<0.35		2.0	ng/L		07/30/26 16:00	07/31/26 11:04	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<0.30		2.0	ng/L		07/30/26 16:00	07/31/26 11:04	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<0.29		2.0	ng/L		07/30/26 16:00	07/31/26 11:04	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.59		2.0	ng/L		07/30/26 16:00	07/31/26 11:04	1
Surrogate	MBL %Recovery	MBL Qualifier	Limits			Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	113		70 - 130			07/30/26 16:00	07/31/26 11:04	1
13C2 PFHxA	117		70 - 130			07/30/26 16:00	07/31/26 11:04	1
13C2 PFDA	117		70 - 130			07/30/26 16:00	07/31/26 11:04	1

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QC Sample Results

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

Job ID: 380-227852-1
SDG: PFAS: Ka'amilo Wells P2

Method: EPA 537.1 V2 - EPA 537.1 Ver. 2.0 March 2020 (Continued)

Lab Sample ID: MBL 380-243515/20-A

Matrix: Water

Analysis Batch: 243645

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 243515

Surrogate	MBL %Recovery	MBL Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3-GenX	110		70 - 130	07/30/26 16:00	07/31/26 11:04	1

Lab Sample ID: LCS 380-243515/22-A

Matrix: Water

Analysis Batch: 243645

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 243515

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Hexafluoropropylene Oxide	49.3	49.3		ng/L		100	70 - 130
Dimer Acid (HFPO-DA/GenX)							
Perfluorooctanesulfonic acid (PFOS)	49.3	54.8		ng/L		111	70 - 130
Perfluoroundecanoic acid (PFUnA)	49.3	51.3		ng/L		104	70 - 130
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	49.3	52.4		ng/L		106	70 - 130
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	49.3	51.3		ng/L		104	70 - 130
Perfluorohexanoic acid (PFHxA)	49.3	50.6		ng/L		103	70 - 130
Perfluorododecanoic acid (PFDoA)	49.3	51.2		ng/L		104	70 - 130
Perfluorooctanoic acid (PFOA)	49.3	51.0		ng/L		103	70 - 130
Perfluorodecanoic acid (PFDA)	49.3	50.9		ng/L		103	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	49.3	54.8		ng/L		111	70 - 130
Perfluorobutanesulfonic acid (PFBS)	49.3	56.0		ng/L		114	70 - 130
Perfluoroheptanoic acid (PFHpA)	49.3	51.5		ng/L		105	70 - 130
Perfluorononanoic acid (PFNA)	49.3	52.2		ng/L		106	70 - 130
Perfluorotetradecanoic acid (PFTA)	49.3	50.7		ng/L		103	70 - 130
Perfluorotridecanoic acid (PFTrDA)	49.3	52.5		ng/L		106	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	49.3	53.3		ng/L		108	70 - 130
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	49.3	53.3		ng/L		108	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	49.3	51.1		ng/L		104	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
d5-NEtFOSAA	116		70 - 130
13C2 PFHxA	114		70 - 130
13C2 PFDA	114		70 - 130
13C3-GenX	108		70 - 130

QC Sample Results

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

Job ID: 380-227852-1
SDG: PFAS: Ka'amilo Wells P2

Method: EPA 537.1 V2 - EPA 537.1 Ver. 2.0 March 2020 (Continued)

Lab Sample ID: MRL 380-243515/21-A

Matrix: Water

Analysis Batch: 243645

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 243515

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	1.96	1.91	J	ng/L		97	50 - 150
Perfluorooctanesulfonic acid (PFOS)	1.96	2.00	J	ng/L		102	50 - 150
Perfluoroundecanoic acid (PFUnA)	1.96	2.06	J	ng/L		105	50 - 150
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	1.96	1.92	J	ng/L		98	50 - 150
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.96	1.90	J	ng/L		97	50 - 150
Perfluorohexanoic acid (PFHxA)	1.96	2.03	J	ng/L		103	50 - 150
Perfluorododecanoic acid (PFDoA)	1.96	1.99	J	ng/L		101	50 - 150
Perfluorooctanoic acid (PFOA)	1.96	2.07	J	ng/L		105	50 - 150
Perfluorodecanoic acid (PFDA)	1.96	2.00	J	ng/L		102	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	1.96	2.09	J	ng/L		106	50 - 150
Perfluorobutanesulfonic acid (PFBS)	1.96	1.94	J	ng/L		99	50 - 150
Perfluoroheptanoic acid (PFHpA)	1.96	2.04	J	ng/L		104	50 - 150
Perfluorononanoic acid (PFNA)	1.96	2.12	J	ng/L		108	50 - 150
Perfluorotetradecanoic acid (PFTA)	1.96	1.99	J	ng/L		101	50 - 150
Perfluorotridecanoic acid (PFTrDA)	1.96	2.06	J	ng/L		105	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	1.96	1.96	J	ng/L		100	50 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	1.96	1.99	J	ng/L		101	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.96	1.90	J	ng/L		97	50 - 150

Surrogate	MRL %Recovery	MRL Qualifier	Limits
d5-NEtFOSAA	115		70 - 130
13C2 PFHxA	118		70 - 130
13C2 PFDA	118		70 - 130
13C3-GenX	108		70 - 130

Lab Sample ID: 380-227792-B-1-A MS

Matrix: Water

Analysis Batch: 243645

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 243515

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		49.1	52.3		ng/L		106	70 - 130
Perfluorooctanesulfonic acid (PFOS)	<2.0		49.1	53.3		ng/L		108	70 - 130
Perfluoroundecanoic acid (PFUnA)	<2.0		49.1	51.2		ng/L		104	70 - 130
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		49.1	53.1		ng/L		108	70 - 130

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QC Sample Results

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

Job ID: 380-227852-1
SDG: PFAS: Ka'amilo Wells P2

Method: EPA 537.1 V2 - EPA 537.1 Ver. 2.0 March 2020 (Continued)

Lab Sample ID: 380-227792-B-1-A MS

Matrix: Water

Analysis Batch: 243645

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 243515

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec		
	Result	Qualifier	Added	Result	Qualifier			Limits	Limits		
N-ethylperfluorooctanesulfonami doacetic acid (NEtFOSAA)	<2.0		49.1	55.5		ng/L		113	70 - 130		
Perfluorohexanoic acid (PFHxA)	<2.0		49.1	54.4		ng/L		109	70 - 130		
Perfluorododecanoic acid (PFDoA)	<2.0		49.1	50.7		ng/L		103	70 - 130		
Perfluorooctanoic acid (PFOA)	<2.0		49.1	53.4		ng/L		109	70 - 130		
Perfluorodecanoic acid (PFDA)	<2.0		49.1	52.5		ng/L		107	70 - 130		
Perfluorohexanesulfonic acid (PFHxS)	<2.0		49.1	54.4		ng/L		110	70 - 130		
Perfluorobutanesulfonic acid (PFBS)	<2.0		49.1	57.4		ng/L		117	70 - 130		
Perfluoroheptanoic acid (PFHpA)	<2.0		49.1	53.7		ng/L		109	70 - 130		
Perfluorononanoic acid (PFNA)	<2.0		49.1	53.7		ng/L		109	70 - 130		
Perfluorotetradecanoic acid (PFTA)	<2.0		49.1	49.6		ng/L		101	70 - 130		
Perfluorotridecanoic acid (PFTrDA)	<2.0		49.1	52.9		ng/L		108	70 - 130		
9-Chlorohexadecafluoro-3-oxan onane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		49.1	53.1		ng/L		108	70 - 130		
11-Chloroeicosafluoro-3-oxaund ecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		49.1	52.7		ng/L		107	70 - 130		
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		49.1	51.4		ng/L		105	70 - 130		
		MS	MS								
Surrogate	%Recovery	Qualifier	Limits								
d5-NEtFOSAA	114		70 - 130								
13C2 PFHxA	116		70 - 130								
13C2 PFDA	110		70 - 130								
13C3-GenX	113		70 - 130								

Lab Sample ID: 380-227792-C-1-A MSD

Matrix: Water

Analysis Batch: 243645

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 243515

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		49.2	53.8		ng/L		109	70 - 130	3	30
Perfluorooctanesulfonic acid (PFOS)	<2.0		49.2	53.3		ng/L		108	70 - 130	0	30
Perfluoroundecanoic acid (PFUnA)	<2.0		49.2	53.4		ng/L		108	70 - 130	4	30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		49.2	50.6		ng/L		103	70 - 130	5	30
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		49.2	51.4		ng/L		104	70 - 130	8	30
Perfluorohexanoic acid (PFHxA)	<2.0		49.2	57.6		ng/L		115	70 - 130	6	30
Perfluorododecanoic acid (PFDoA)	<2.0		49.2	51.4		ng/L		105	70 - 130	2	30
Perfluorooctanoic acid (PFOA)	<2.0		49.2	54.0		ng/L		110	70 - 130	1	30
Perfluorodecanoic acid (PFDA)	<2.0		49.2	53.7		ng/L		109	70 - 130	2	30

Eurofins Pomona

QC Sample Results

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

Job ID: 380-227852-1
SDG: PFAS: Ka'amilo Wells P2

Method: EPA 537.1 V2 - EPA 537.1 Ver. 2.0 March 2020 (Continued)

Lab Sample ID: 380-227792-C-1-A MSD

Matrix: Water

Analysis Batch: 243645

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 243515

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorohexanesulfonic acid (PFHxS)	<2.0		49.2	55.0		ng/L		111	70 - 130	1	30
Perfluorobutanesulfonic acid (PFBS)	<2.0		49.2	56.5		ng/L		115	70 - 130	2	30
Perfluoroheptanoic acid (PFHpA)	<2.0		49.2	54.2		ng/L		109	70 - 130	1	30
Perfluorononanoic acid (PFNA)	<2.0		49.2	55.1		ng/L		112	70 - 130	3	30
Perfluorotetradecanoic acid (PFTA)	<2.0		49.2	50.9		ng/L		103	70 - 130	3	30
Perfluorotridecanoic acid (PFTTrDA)	<2.0		49.2	55.0		ng/L		112	70 - 130	4	30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		49.2	53.4		ng/L		108	70 - 130	0	30
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		49.2	53.2		ng/L		108	70 - 130	1	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		49.2	52.6		ng/L		107	70 - 130	2	30
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
d5-NEtFOSAA	114		70 - 130								
13C2 PFHxA	120		70 - 130								
13C2 PFDA	116		70 - 130								
13C3-GenX	117		70 - 130								

QC Association Summary

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

Job ID: 380-227852-1
SDG: PFAS: Ka'amilo Wells P2

LCMS

Prep Batch: 243404

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-227852-1	Ka'amilo Wells P2 (331-600-WL085)	Total/NA	Water	533	
380-227852-2	FB: Ka'amilo Wells P2 (331-600-WL085)	Total/NA	Water	533	
MBL 380-243404/20-A	Method Blank	Total/NA	Water	533	
LCS 380-243404/22-A	Lab Control Sample	Total/NA	Water	533	
MRL 380-243404/21-A	Lab Control Sample	Total/NA	Water	533	
380-227850-E-2-A MS	Matrix Spike	Total/NA	Water	533	
380-227850-F-2-A MSD	Matrix Spike Duplicate	Total/NA	Water	533	

Prep Batch: 243515

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-227852-1	Ka'amilo Wells P2 (331-600-WL085)	Total/NA	Water	537.1 DW	
380-227852-2	FB: Ka'amilo Wells P2 (331-600-WL085)	Total/NA	Water	537.1 DW	
MBL 380-243515/20-A	Method Blank	Total/NA	Water	537.1 DW	
LCS 380-243515/22-A	Lab Control Sample	Total/NA	Water	537.1 DW	
MRL 380-243515/21-A	Lab Control Sample	Total/NA	Water	537.1 DW	
380-227792-B-1-A MS	Matrix Spike	Total/NA	Water	537.1 DW	
380-227792-C-1-A MSD	Matrix Spike Duplicate	Total/NA	Water	537.1 DW	

Analysis Batch: 243521

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-227852-1	Ka'amilo Wells P2 (331-600-WL085)	Total/NA	Water	533	243404
380-227852-2	FB: Ka'amilo Wells P2 (331-600-WL085)	Total/NA	Water	533	243404
MBL 380-243404/20-A	Method Blank	Total/NA	Water	533	243404
LCS 380-243404/22-A	Lab Control Sample	Total/NA	Water	533	243404
MRL 380-243404/21-A	Lab Control Sample	Total/NA	Water	533	243404
380-227850-E-2-A MS	Matrix Spike	Total/NA	Water	533	243404
380-227850-F-2-A MSD	Matrix Spike Duplicate	Total/NA	Water	533	243404

Analysis Batch: 243645

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-227852-1	Ka'amilo Wells P2 (331-600-WL085)	Total/NA	Water	EPA 537.1 V2	243515
380-227852-2	FB: Ka'amilo Wells P2 (331-600-WL085)	Total/NA	Water	EPA 537.1 V2	243515
MBL 380-243515/20-A	Method Blank	Total/NA	Water	EPA 537.1 V2	243515
LCS 380-243515/22-A	Lab Control Sample	Total/NA	Water	EPA 537.1 V2	243515
MRL 380-243515/21-A	Lab Control Sample	Total/NA	Water	EPA 537.1 V2	243515
380-227792-B-1-A MS	Matrix Spike	Total/NA	Water	EPA 537.1 V2	243515
380-227792-C-1-A MSD	Matrix Spike Duplicate	Total/NA	Water	EPA 537.1 V2	243515

Lab Chronicle

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

Job ID: 380-227852-1
SDG: PFAS: Ka'amilo Wells P2

Client Sample ID: Ka'amilo Wells P2 (331-600-WL085)

Lab Sample ID: 380-227852-1

Date Collected: 07/27/26 13:13

Matrix: Water

Date Received: 07/29/26 10:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			243404	XTD8	EA POM	07/30/26 07:48
Total/NA	Analysis	533		1	243521	Y5FM	EA POM	07/30/26 22:48
Total/NA	Prep	537.1 DW			243515	E2HD	EA POM	07/30/26 16:00
Total/NA	Analysis	EPA 537.1 V2		1	243645	Y5FM	EA POM	07/31/26 14:26

Client Sample ID: FB: Ka'amilo Wells P2 (331-600-WL085)

Lab Sample ID: 380-227852-2

Date Collected: 07/27/26 13:13

Matrix: Water

Date Received: 07/29/26 10:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			243404	XTD8	EA POM	07/30/26 07:48
Total/NA	Analysis	533		1	243521	Y5FM	EA POM	07/30/26 22:57
Total/NA	Prep	537.1 DW			243515	E2HD	EA POM	07/30/26 16:00
Total/NA	Analysis	EPA 537.1 V2		1	243645	Y5FM	EA POM	07/31/26 14:36

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: 380-227852-1
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 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

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Method Summary

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

Job ID: 380-227852-1
SDG: PFAS: Ka'amilo Wells P2

Method	Method Description	Protocol	Laboratory
533	Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water	EPA	EA POM
EPA 537.1 V2	EPA 537.1 Ver. 2.0 March 2020	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: 380-227852-1
SDG: PFAS: Ka'amilo Wells P2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
380-227852-1	Ka'amilo Wells P2 (331-600-WL085)	Water	07/27/26 13:13	07/29/26 10:40	Hawaii
380-227852-2	FB: Ka'amilo Wells P2 (331-600-WL085)	Water	07/27/26 13:13	07/29/26 10:40	Hawaii

Ver- 01/16/2019

Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-227852-1

SDG Number: PFAS: Ka'amilo Wells P2

Login Number: 227852

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	