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ANALYTICAL REPORT

PREPARED FOR

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JOB DESCRIPTION

RED-HILL
PFAS: Ka'amilo Wells P2

JOB NUMBER

380-202546-1

Eurofins Pomona

Job Notes

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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: 380-202546-1
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: 380-202546-1

Job ID: 380-202546-1

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Job Narrative 380-202546-1

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 3/11/2026 9:30 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.4°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 (380-22546-1). (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: 380-202546-1
SDG: PFAS: Ka'amilo Wells P2

Client Sample ID: Ka'amilo Wells P2 (331-600-WL085)
PWSID Number: HI0000331

Lab Sample ID: 380-202546-1

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid (PFBS)	2.6		2.0	ng/L	1		533	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	3.1		2.0	ng/L	1		533	Total/NA
Perfluorohexanoic acid (PFHxA)	3.5		2.0	ng/L	1		533	Total/NA
Perfluorooctanesulfonic acid (PFOS)	4.1		2.0	ng/L	1		533	Total/NA
Perfluorooctanoic acid (PFOA)	3.5		2.0	ng/L	1		533	Total/NA
Perfluoropentanoic acid (PFPeA)	3.6		2.0	ng/L	1		533	Total/NA
Perfluorooctanesulfonic acid (PFOS)	4.9		2.0	ng/L	1		EPA 537.1 V2	Total/NA
Perfluorohexanoic acid (PFHxA)	3.8		2.0	ng/L	1		EPA 537.1 V2	Total/NA
Perfluorooctanoic acid (PFOA)	4.2		2.0	ng/L	1		EPA 537.1 V2	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	4.1		2.0	ng/L	1		EPA 537.1 V2	Total/NA
Perfluorobutanesulfonic acid (PFBS)	3.2		2.0	ng/L	1		EPA 537.1 V2	Total/NA
Perfluoroheptanoic acid (PFHpA)	2.0		2.0	ng/L	1		EPA 537.1 V2	Total/NA

Client Sample ID: FB: Ka'amilo Wells P2 (331-600-WL085)
PWSID Number: HI0000331

Lab Sample ID: 380-202546-2

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: 380-202546-1
SDG: PFAS: Ka'amilo Wells P2

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

Lab Sample ID: 380-202546-1

Date Collected: 03/09/26 12:53

Matrix: Water

Date Received: 03/11/26 09:30

PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosafuoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		03/13/26 06:38	03/13/26 19:13	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		03/13/26 06:38	03/13/26 19:13	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		03/13/26 06:38	03/13/26 19:13	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		03/13/26 06:38	03/13/26 19:13	1
Perfluorobutanesulfonic acid (PFBS)	2.6		2.0	ng/L		03/13/26 06:38	03/13/26 19:13	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		03/13/26 06:38	03/13/26 19:13	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		03/13/26 06:38	03/13/26 19:13	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		03/13/26 06:38	03/13/26 19:13	1
Perfluorohexanesulfonic acid (PFHxS)	3.1		2.0	ng/L		03/13/26 06:38	03/13/26 19:13	1
Perfluorohexanoic acid (PFHxA)	3.5		2.0	ng/L		03/13/26 06:38	03/13/26 19:13	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		03/13/26 06:38	03/13/26 19:13	1
Perfluorooctanesulfonic acid (PFOS)	4.1		2.0	ng/L		03/13/26 06:38	03/13/26 19:13	1
Perfluorooctanoic acid (PFOA)	3.5		2.0	ng/L		03/13/26 06:38	03/13/26 19:13	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		03/13/26 06:38	03/13/26 19:13	1
Perfluorobutanoic acid (PFBA)	<2.0		2.0	ng/L		03/13/26 06:38	03/13/26 19:13	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0	ng/L		03/13/26 06:38	03/13/26 19:13	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0	ng/L		03/13/26 06:38	03/13/26 19:13	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0	ng/L		03/13/26 06:38	03/13/26 19:13	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		2.0	ng/L		03/13/26 06:38	03/13/26 19:13	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<2.0		2.0	ng/L		03/13/26 06:38	03/13/26 19:13	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		03/13/26 06:38	03/13/26 19:13	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		03/13/26 06:38	03/13/26 19:13	1
Perfluoropentanoic acid (PFPeA)	3.6		2.0	ng/L		03/13/26 06:38	03/13/26 19:13	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		03/13/26 06:38	03/13/26 19:13	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		03/13/26 06:38	03/13/26 19:13	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	110		50 - 200	03/13/26 06:38	03/13/26 19:13	1
13C6 PFDA	123		50 - 200	03/13/26 06:38	03/13/26 19:13	1
13C5 PFHxA	112		50 - 200	03/13/26 06:38	03/13/26 19:13	1
13C4 PFHpA	120		50 - 200	03/13/26 06:38	03/13/26 19:13	1
13C8 PFOA	121		50 - 200	03/13/26 06:38	03/13/26 19:13	1
13C9 PFNA	120		50 - 200	03/13/26 06:38	03/13/26 19:13	1
13C7 PFUnA	115		50 - 200	03/13/26 06:38	03/13/26 19:13	1
13C2 PFDoA	119		50 - 200	03/13/26 06:38	03/13/26 19:13	1
13C4 PFBA	119		50 - 200	03/13/26 06:38	03/13/26 19:13	1
13C5 PFPeA	118		50 - 200	03/13/26 06:38	03/13/26 19:13	1
13C3 PFBS	120		50 - 200	03/13/26 06:38	03/13/26 19:13	1

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Client Sample Results

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

Job ID: 380-202546-1
SDG: PFAS: Ka'amilo Wells P2

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

Lab Sample ID: 380-202546-1

Date Collected: 03/09/26 12:53

Matrix: Water

Date Received: 03/11/26 09:30

PWSID Number: HI0000331

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 PFHxS	125		50 - 200	03/13/26 06:38	03/13/26 19:13	1
13C8 PFOS	117		50 - 200	03/13/26 06:38	03/13/26 19:13	1
13C2-4:2-FTS	135		50 - 200	03/13/26 06:38	03/13/26 19:13	1
13C2-6:2-FTS	121		50 - 200	03/13/26 06:38	03/13/26 19:13	1
13C2-8:2-FTS	123		50 - 200	03/13/26 06:38	03/13/26 19:13	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		03/13/26 08:21	03/13/26 23:53	1
Perfluorooctanesulfonic acid (PFOS)	4.9		2.0	ng/L		03/13/26 08:21	03/13/26 23:53	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		03/13/26 08:21	03/13/26 23:53	1
N-methylperfluorooctanesulfonamide cetic acid (NMeFOSAA)	<2.0		2.0	ng/L		03/13/26 08:21	03/13/26 23:53	1
N-ethylperfluorooctanesulfonamide cetic acid (NEtFOSAA)	<2.0		2.0	ng/L		03/13/26 08:21	03/13/26 23:53	1
Perfluorohexanoic acid (PFHxA)	3.8		2.0	ng/L		03/13/26 08:21	03/13/26 23:53	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		03/13/26 08:21	03/13/26 23:53	1
Perfluorooctanoic acid (PFOA)	4.2		2.0	ng/L		03/13/26 08:21	03/13/26 23:53	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		03/13/26 08:21	03/13/26 23:53	1
Perfluorohexanesulfonic acid (PFHxS)	4.1		2.0	ng/L		03/13/26 08:21	03/13/26 23:53	1
Perfluorobutanesulfonic acid (PFBS)	3.2		2.0	ng/L		03/13/26 08:21	03/13/26 23:53	1
Perfluoroheptanoic acid (PFHpA)	2.0		2.0	ng/L		03/13/26 08:21	03/13/26 23:53	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		03/13/26 08:21	03/13/26 23:53	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0	ng/L		03/13/26 08:21	03/13/26 23:53	1
Perfluorotridecanoic acid (PFTrDA)	<2.0		2.0	ng/L		03/13/26 08:21	03/13/26 23:53	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		03/13/26 08:21	03/13/26 23:53	1
11-Chloroeicosfluoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		03/13/26 08:21	03/13/26 23:53	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		03/13/26 08:21	03/13/26 23:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	101		70 - 130	03/13/26 08:21	03/13/26 23:53	1
13C2 PFHxA	93		70 - 130	03/13/26 08:21	03/13/26 23:53	1
13C2 PFDA	103		70 - 130	03/13/26 08:21	03/13/26 23:53	1
13C3-GenX	103		70 - 130	03/13/26 08:21	03/13/26 23:53	1

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

Lab Sample ID: 380-202546-2

Date Collected: 03/09/26 12:53

Matrix: Water

Date Received: 03/11/26 09:30

PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosfluoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		03/13/26 06:38	03/13/26 19:23	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		03/13/26 06:38	03/13/26 19:23	1

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Client Sample Results

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

Job ID: 380-202546-1
SDG: PFAS: Ka'amilo Wells P2

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

Lab Sample ID: 380-202546-2

Date Collected: 03/09/26 12:53

Matrix: Water

Date Received: 03/11/26 09:30

PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		03/13/26 06:38	03/13/26 19:23	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		03/13/26 06:38	03/13/26 19:23	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		03/13/26 06:38	03/13/26 19:23	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		03/13/26 06:38	03/13/26 19:23	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		03/13/26 06:38	03/13/26 19:23	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		03/13/26 06:38	03/13/26 19:23	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		03/13/26 06:38	03/13/26 19:23	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		03/13/26 06:38	03/13/26 19:23	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		03/13/26 06:38	03/13/26 19:23	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		03/13/26 06:38	03/13/26 19:23	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		03/13/26 06:38	03/13/26 19:23	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		03/13/26 06:38	03/13/26 19:23	1
Perfluorobutanoic acid (PFBA)	<2.0		2.0	ng/L		03/13/26 06:38	03/13/26 19:23	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0	ng/L		03/13/26 06:38	03/13/26 19:23	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0	ng/L		03/13/26 06:38	03/13/26 19:23	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0	ng/L		03/13/26 06:38	03/13/26 19:23	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		2.0	ng/L		03/13/26 06:38	03/13/26 19:23	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<2.0		2.0	ng/L		03/13/26 06:38	03/13/26 19:23	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		03/13/26 06:38	03/13/26 19:23	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		03/13/26 06:38	03/13/26 19:23	1
Perfluoropentanoic acid (PFPeA)	<2.0		2.0	ng/L		03/13/26 06:38	03/13/26 19:23	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		03/13/26 06:38	03/13/26 19:23	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		03/13/26 06:38	03/13/26 19:23	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	101		50 - 200	03/13/26 06:38	03/13/26 19:23	1
13C6 PFDA	120		50 - 200	03/13/26 06:38	03/13/26 19:23	1
13C5 PFHxA	113		50 - 200	03/13/26 06:38	03/13/26 19:23	1
13C4 PFHpA	118		50 - 200	03/13/26 06:38	03/13/26 19:23	1
13C8 PFOA	120		50 - 200	03/13/26 06:38	03/13/26 19:23	1
13C9 PFNA	118		50 - 200	03/13/26 06:38	03/13/26 19:23	1
13C7 PFUnA	111		50 - 200	03/13/26 06:38	03/13/26 19:23	1
13C2 PFDoA	118		50 - 200	03/13/26 06:38	03/13/26 19:23	1
13C4 PFBA	118		50 - 200	03/13/26 06:38	03/13/26 19:23	1
13C5 PFPeA	123		50 - 200	03/13/26 06:38	03/13/26 19:23	1
13C3 PFBS	119		50 - 200	03/13/26 06:38	03/13/26 19:23	1
13C3 PFHxS	120		50 - 200	03/13/26 06:38	03/13/26 19:23	1
13C8 PFOS	118		50 - 200	03/13/26 06:38	03/13/26 19:23	1
13C2-4:2-FTS	132		50 - 200	03/13/26 06:38	03/13/26 19:23	1
13C2-6:2-FTS	120		50 - 200	03/13/26 06:38	03/13/26 19:23	1
13C2-8:2-FTS	119		50 - 200	03/13/26 06:38	03/13/26 19:23	1

Client Sample Results

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

Job ID: 380-202546-1
SDG: PFAS: Ka'amilo Wells P2

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

Lab Sample ID: 380-202546-2

Date Collected: 03/09/26 12:53

Matrix: Water

Date Received: 03/11/26 09:30

PWSID Number: HI0000331

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		03/13/26 08:21	03/14/26 00:02	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		03/13/26 08:21	03/14/26 00:02	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		03/13/26 08:21	03/14/26 00:02	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		2.0	ng/L		03/13/26 08:21	03/14/26 00:02	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		2.0	ng/L		03/13/26 08:21	03/14/26 00:02	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		03/13/26 08:21	03/14/26 00:02	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		03/13/26 08:21	03/14/26 00:02	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		03/13/26 08:21	03/14/26 00:02	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		03/13/26 08:21	03/14/26 00:02	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		03/13/26 08:21	03/14/26 00:02	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		03/13/26 08:21	03/14/26 00:02	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		03/13/26 08:21	03/14/26 00:02	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		03/13/26 08:21	03/14/26 00:02	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0	ng/L		03/13/26 08:21	03/14/26 00:02	1
Perfluorotridecanoic acid (PFTrDA)	<2.0		2.0	ng/L		03/13/26 08:21	03/14/26 00:02	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		03/13/26 08:21	03/14/26 00:02	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		03/13/26 08:21	03/14/26 00:02	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		03/13/26 08:21	03/14/26 00:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	100		70 - 130			03/13/26 08:21	03/14/26 00:02	1
13C2 PFHxA	102		70 - 130			03/13/26 08:21	03/14/26 00:02	1
13C2 PFDA	106		70 - 130			03/13/26 08:21	03/14/26 00:02	1
13C3-GenX	107		70 - 130			03/13/26 08:21	03/14/26 00:02	1

Action Limit Summary

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

Job ID: 380-202546-1
SDG: PFAS: Ka'amilo Wells P2

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

Lab Sample ID: 380-202546-1

PWSID Number: HI0000331

Compliance Check

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

Analyte	Result	Qualifier	Unit	EPAMCL	RL	Method	Prep Type
				Limit			
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		ng/L	10	2.0	533	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	3.1		ng/L	10	2.0	533	Total/NA
Perfluorononanoic acid (PFNA)	<2.0		ng/L	10	2.0	533	Total/NA
Perfluorooctanesulfonic acid (PFOS)	4.1		ng/L	4	2.0	533	Total/NA
Perfluorooctanoic acid (PFOA)	3.5		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)	4.9		ng/L	4	2.0	EPA 537.1 V2	Total/NA
Perfluorooctanoic acid (PFOA)	4.2		ng/L	4	2.0	EPA 537.1 V2	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	4.1		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: 380-202546-2

PWSID Number: HI0000331

Compliance Check

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

Analyte	Result	Qualifier	Unit	EPAMCL	RL	Method	Prep Type
				Limit			
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		ng/L	10	2.0	533	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	<2.0		ng/L	10	2.0	533	Total/NA
Perfluorononanoic acid (PFNA)	<2.0		ng/L	10	2.0	533	Total/NA
Perfluorooctanesulfonic acid (PFOS)	<2.0		ng/L	4	2.0	533	Total/NA
Perfluorooctanoic acid (PFOA)	<2.0		ng/L	4	2.0	533	Total/NA
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		ng/L	10	2.0	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: 380-202546-1
 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)
380-201912-BU-1-A MS	Matrix Spike	103	106	107	106
380-201912-BV-1-A MSD	Matrix Spike Duplicate	101	103	105	106
380-202546-1	Ka'amilo Wells P2 (331-600-WL085)	101	93	103	103
380-202546-2	FB: Ka'amilo Wells P2 (331-600-WL085)	100	102	106	107
LCS 380-213002/23-A	Lab Control Sample	95	98	110	97
MBL 380-213002/21-A	Method Blank	102	102	104	103
MRL 380-213002/22-A	Lab Control Sample	104	106	109	111

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: 380-202546-1
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)
380-202531-B-1-A MS	Matrix Spike	113	119	110	118	115	118	118	118
380-202531-C-1-A MSD	Matrix Spike Duplicate	115	119	120	120	122	120	116	121
380-202546-1	Ka'amilo Wells P2 (331-600-WL085)	110	123	112	120	121	120	115	119
380-202546-2	FB: Ka'amilo Wells P2 (331-600-WL085)	101	120	113	118	120	118	111	118
LCS 380-212996/22-A	Lab Control Sample	110	122	115	115	122	119	121	124
MBL 380-212996/20-A	Method Blank	105	126	119	120	122	122	116	123
MRL 380-212996/21-A	Lab Control Sample	101	114	111	115	113	113	112	112

		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)
380-202531-B-1-A MS	Matrix Spike	115	116	112	116	108	115	104	113
380-202531-C-1-A MSD	Matrix Spike Duplicate	119	126	118	126	115	118	117	123
380-202546-1	Ka'amilo Wells P2 (331-600-WL085)	119	118	120	125	117	135	121	123
380-202546-2	FB: Ka'amilo Wells P2 (331-600-WL085)	118	123	119	120	118	132	120	119
LCS 380-212996/22-A	Lab Control Sample	115	117	114	119	111	115	118	124
MBL 380-212996/20-A	Method Blank	123	129	123	129	125	131	123	136
MRL 380-212996/21-A	Lab Control Sample	118	118	115	122	112	122	119	119

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: 380-202546-1
SDG: PFAS: Ka'amilo Wells P2

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

Lab Sample ID: MBL 380-212996/20-A
Matrix: Water
Analysis Batch: 213143

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 212996

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosfluoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS)	<0.30		2.0	ng/L		03/13/26 06:38	03/13/26 16:06	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS)	<0.30		2.0	ng/L		03/13/26 06:38	03/13/26 16:06	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.60		2.0	ng/L		03/13/26 06:38	03/13/26 16:06	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<1.0		2.0	ng/L		03/13/26 06:38	03/13/26 16:06	1
Perfluorobutanesulfonic acid (PFBS)	<0.37		2.0	ng/L		03/13/26 06:38	03/13/26 16:06	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	ng/L		03/13/26 06:38	03/13/26 16:06	1
Perfluorododecanoic acid (PFDoA)	<0.54		2.0	ng/L		03/13/26 06:38	03/13/26 16:06	1
Perfluoroheptanoic acid (PFHpA)	<0.39		2.0	ng/L		03/13/26 06:38	03/13/26 16:06	1
Perfluorohexanesulfonic acid (PFHxS)	<0.32		2.0	ng/L		03/13/26 06:38	03/13/26 16:06	1
Perfluorohexanoic acid (PFHxA)	<0.46		2.0	ng/L		03/13/26 06:38	03/13/26 16:06	1
Perfluorononanoic acid (PFNA)	<0.40		2.0	ng/L		03/13/26 06:38	03/13/26 16:06	1
Perfluorooctanesulfonic acid (PFOS)	<0.43		2.0	ng/L		03/13/26 06:38	03/13/26 16:06	1
Perfluorooctanoic acid (PFOA)	<0.38		2.0	ng/L		03/13/26 06:38	03/13/26 16:06	1
Perfluoroundecanoic acid (PFUnA)	<0.42		2.0	ng/L		03/13/26 06:38	03/13/26 16:06	1
Perfluorobutanoic acid (PFBA)	<0.69		2.0	ng/L		03/13/26 06:38	03/13/26 16:06	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<0.38		2.0	ng/L		03/13/26 06:38	03/13/26 16:06	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<0.37		2.0	ng/L		03/13/26 06:38	03/13/26 16:06	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<0.48		2.0	ng/L		03/13/26 06:38	03/13/26 16:06	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.47		2.0	ng/L		03/13/26 06:38	03/13/26 16:06	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<0.25		2.0	ng/L		03/13/26 06:38	03/13/26 16:06	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.46		2.0	ng/L		03/13/26 06:38	03/13/26 16:06	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.15		2.0	ng/L		03/13/26 06:38	03/13/26 16:06	1
Perfluoropentanoic acid (PFPeA)	<0.38		2.0	ng/L		03/13/26 06:38	03/13/26 16:06	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.36		2.0	ng/L		03/13/26 06:38	03/13/26 16:06	1
Perfluoropentanesulfonic acid (PFPeS)	<0.39		2.0	ng/L		03/13/26 06:38	03/13/26 16:06	1

Isotope Dilution	MBL %Recovery	MBL Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	105		50 - 200	03/13/26 06:38	03/13/26 16:06	1
13C6 PFDA	126		50 - 200	03/13/26 06:38	03/13/26 16:06	1
13C5 PFHxA	119		50 - 200	03/13/26 06:38	03/13/26 16:06	1
13C4 PFHpA	120		50 - 200	03/13/26 06:38	03/13/26 16:06	1
13C8 PFOA	122		50 - 200	03/13/26 06:38	03/13/26 16:06	1
13C9 PFNA	122		50 - 200	03/13/26 06:38	03/13/26 16:06	1
13C7 PFUnA	116		50 - 200	03/13/26 06:38	03/13/26 16:06	1
13C2 PFDoA	123		50 - 200	03/13/26 06:38	03/13/26 16:06	1
13C4 PFBA	123		50 - 200	03/13/26 06:38	03/13/26 16:06	1
13C5 PFPeA	129		50 - 200	03/13/26 06:38	03/13/26 16:06	1
13C3 PFBS	123		50 - 200	03/13/26 06:38	03/13/26 16:06	1
13C3 PFHxS	129		50 - 200	03/13/26 06:38	03/13/26 16:06	1

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QC Sample Results

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

Job ID: 380-202546-1
SDG: PFAS: Ka'amilo Wells P2

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

Lab Sample ID: MBL 380-212996/20-A
Matrix: Water
Analysis Batch: 213143

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 212996

<i>Isotope Dilution</i>	<i>MBL %Recovery</i>	<i>MBL Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C8 PFOS	125		50 - 200	03/13/26 06:38	03/13/26 16:06	1
13C2-4:2-FTS	131		50 - 200	03/13/26 06:38	03/13/26 16:06	1
13C2-6:2-FTS	123		50 - 200	03/13/26 06:38	03/13/26 16:06	1
13C2-8:2-FTS	136		50 - 200	03/13/26 06:38	03/13/26 16:06	1

Lab Sample ID: LCS 380-212996/22-A
Matrix: Water
Analysis Batch: 213143

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 212996

<i>Analyte</i>	<i>Spike Added</i>	<i>LCS Result</i>	<i>LCS Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec Limits</i>
11-Chloroeicosfluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	120	112		ng/L		93	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	120	116		ng/L		96	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	120	109		ng/L		90	70 - 130
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	120	107		ng/L		89	70 - 130
Perfluorobutanesulfonic acid (PFBS)	120	110		ng/L		91	70 - 130
Perfluorodecanoic acid (PFDA)	120	108		ng/L		90	70 - 130
Perfluorododecanoic acid (PFDoA)	120	107		ng/L		89	70 - 130
Perfluoroheptanoic acid (PFHpA)	120	105		ng/L		87	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	120	104		ng/L		86	70 - 130
Perfluorohexanoic acid (PFHxA)	120	107		ng/L		89	70 - 130
Perfluorononanoic acid (PFNA)	120	109		ng/L		91	70 - 130
Perfluorooctanesulfonic acid (PFOS)	120	112		ng/L		93	70 - 130
Perfluorooctanoic acid (PFOA)	120	105		ng/L		87	70 - 130
Perfluoroundecanoic acid (PFUnA)	120	105		ng/L		87	70 - 130
Perfluorobutanoic acid (PFBA)	120	106		ng/L		88	70 - 130
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	120	107		ng/L		89	70 - 130
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	120	119		ng/L		99	70 - 130
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	120	104		ng/L		86	70 - 130
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	120	108		ng/L		89	70 - 130
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	120	112		ng/L		93	70 - 130
Perfluoro-3-methoxypropanoic acid (PFMPA)	120	109		ng/L		90	70 - 130
Perfluoro-4-methoxybutanoic acid (PFMBA)	120	108		ng/L		90	70 - 130
Perfluoropentanoic acid (PFPeA)	120	111		ng/L		93	70 - 130
Perfluoroheptanesulfonic acid (PFHpS)	120	114		ng/L		95	70 - 130

QC Sample Results

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

Job ID: 380-202546-1
SDG: PFAS: Ka'amilo Wells P2

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

Lab Sample ID: LCS 380-212996/22-A
Matrix: Water
Analysis Batch: 213143

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 212996

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoropentanesulfonic acid (PFPeS)	120	101		ng/L		84	70 - 130
LCS LCS							
Isotope Dilution	%Recovery	Qualifier	Limits				
13C3 HFPO-DA	110		50 - 200				
13C6 PFDA	122		50 - 200				
13C5 PFHxA	115		50 - 200				
13C4 PFHpA	115		50 - 200				
13C8 PFOA	122		50 - 200				
13C9 PFNA	119		50 - 200				
13C7 PFUnA	121		50 - 200				
13C2 PFDoA	124		50 - 200				
13C4 PFBA	115		50 - 200				
13C5 PFPeA	117		50 - 200				
13C3 PFBS	114		50 - 200				
13C3 PFHxS	119		50 - 200				
13C8 PFOS	111		50 - 200				
13C2-4:2-FTS	115		50 - 200				
13C2-6:2-FTS	118		50 - 200				
13C2-8:2-FTS	124		50 - 200				

Lab Sample ID: MRL 380-212996/21-A
Matrix: Water
Analysis Batch: 213143

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 212996

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
11-Chloroeicosfluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.01	2.15	J	ng/L		107	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	2.01	2.22	J	ng/L		110	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	2.01	1.94	J	ng/L		97	50 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	2.01	1.95	J	ng/L		97	50 - 150
Perfluorobutanesulfonic acid (PFBS)	2.01	1.90	J	ng/L		95	50 - 150
Perfluorodecanoic acid (PFDA)	2.01	2.16	J	ng/L		107	50 - 150
Perfluorododecanoic acid (PFDoA)	2.01	2.18	J	ng/L		108	50 - 150
Perfluoroheptanoic acid (PFHpA)	2.01	2.05	J	ng/L		102	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	2.01	1.97	J	ng/L		98	50 - 150
Perfluorohexanoic acid (PFHxA)	2.01	2.04	J	ng/L		102	50 - 150
Perfluorononanoic acid (PFNA)	2.01	2.00	J	ng/L		99	50 - 150
Perfluorooctanesulfonic acid (PFOS)	2.01	2.15	J	ng/L		107	50 - 150
Perfluorooctanoic acid (PFOA)	2.01	2.22	J	ng/L		110	50 - 150
Perfluoroundecanoic acid (PFUnA)	2.01	2.16	J	ng/L		107	50 - 150
Perfluorobutanoic acid (PFBA)	2.01	1.95	J	ng/L		97	50 - 150

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QC Sample Results

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

Job ID: 380-202546-1
SDG: PFAS: Ka'amilo Wells P2

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

Lab Sample ID: MRL 380-212996/21-A
Matrix: Water
Analysis Batch: 213143

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 212996

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	2.01	2.20	J	ng/L		110	50 - 150
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	2.01	2.16	J	ng/L		107	50 - 150
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	2.01	2.06	J	ng/L		103	50 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	2.01	1.98	J	ng/L		99	50 - 150
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	2.01	2.03	J	ng/L		101	50 - 150
Perfluoro-3-methoxypropanoic acid (PFMPA)	2.01	2.09	J	ng/L		104	50 - 150
Perfluoro-4-methoxybutanoic acid (PFMBA)	2.01	2.11	J	ng/L		105	50 - 150
Perfluoropentanoic acid (PFPeA)	2.01	2.02	J	ng/L		100	50 - 150
Perfluoroheptanesulfonic acid (PFHpS)	2.01	2.10	J	ng/L		105	50 - 150
Perfluoropentanesulfonic acid (PFPeS)	2.01	1.77	J	ng/L		88	50 - 150

Isotope Dilution	MRL %Recovery	MRL Qualifier	MRL Limits
13C3 HFPO-DA	101		50 - 200
13C6 PFDA	114		50 - 200
13C5 PFHxA	111		50 - 200
13C4 PFHpA	115		50 - 200
13C8 PFOA	113		50 - 200
13C9 PFNA	113		50 - 200
13C7 PFUnA	112		50 - 200
13C2 PFDoA	112		50 - 200
13C4 PFBA	118		50 - 200
13C5 PFPeA	118		50 - 200
13C3 PFBS	115		50 - 200
13C3 PFHxS	122		50 - 200
13C8 PFOS	112		50 - 200
13C2-4:2-FTS	122		50 - 200
13C2-6:2-FTS	119		50 - 200
13C2-8:2-FTS	119		50 - 200

Lab Sample ID: 380-202531-B-1-A MS
Matrix: Water
Analysis Batch: 213143

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 212996

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		120	115		ng/L		95	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		120	122		ng/L		101	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		120	105		ng/L		87	70 - 130

QC Sample Results

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

Job ID: 380-202546-1
SDG: PFAS: Ka'amilo Wells P2

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

Lab Sample ID: 380-202531-B-1-A MS
Matrix: Water
Analysis Batch: 213143

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 212996

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Hexafluoropropylene Oxide	<2.0		120	113		ng/L		94	70 - 130
Dimer Acid (HFPO-DA/GenX)									
Perfluorobutanesulfonic acid (PFBS)	<2.0		120	111		ng/L		92	70 - 130
Perfluorodecanoic acid (PFDA)	<2.0		120	115		ng/L		95	70 - 130
Perfluorododecanoic acid (PFDoA)	<2.0		120	115		ng/L		95	70 - 130
Perfluoroheptanoic acid (PFHpA)	<2.0		120	108		ng/L		90	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	<2.0		120	104		ng/L		86	70 - 130
Perfluorohexanoic acid (PFHxA)	<2.0		120	115		ng/L		95	70 - 130
Perfluorononanoic acid (PFNA)	<2.0		120	111		ng/L		92	70 - 130
Perfluorooctanesulfonic acid (PFOS)	<2.0		120	118		ng/L		98	70 - 130
Perfluorooctanoic acid (PFOA)	<2.0		120	113		ng/L		93	70 - 130
Perfluoroundecanoic acid (PFUnA)	<2.0		120	111		ng/L		92	70 - 130
Perfluorobutanoic acid (PFBA)	<2.0		120	109		ng/L		90	70 - 130
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		120	112		ng/L		93	70 - 130
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		120	116		ng/L		96	70 - 130
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		120	115		ng/L		95	70 - 130
Nonafluoro-3,6-dioxahexanoic acid (NFDHA)	<2.0		120	114		ng/L		94	70 - 130
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<2.0		120	113		ng/L		93	70 - 130
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		120	112		ng/L		93	70 - 130
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		120	116		ng/L		97	70 - 130
Perfluoropentanoic acid (PFPeA)	<2.0		120	119		ng/L		99	70 - 130
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		120	119		ng/L		99	70 - 130
Perfluoropentanesulfonic acid (PFPeS)	<2.0		120	104		ng/L		86	70 - 130

<i>Isotope Dilution</i>	<i>MS %Recovery</i>	<i>MS Qualifier</i>	<i>MS Limits</i>
13C3 HFPO-DA	113		50 - 200
13C6 PFDA	119		50 - 200
13C5 PFHxA	110		50 - 200
13C4 PFHpA	118		50 - 200
13C8 PFOA	115		50 - 200
13C9 PFNA	118		50 - 200
13C7 PFUnA	118		50 - 200
13C2 PFDoA	118		50 - 200
13C4 PFBA	115		50 - 200
13C5 PFPeA	116		50 - 200
13C3 PFBS	112		50 - 200
13C3 PFHxS	116		50 - 200
13C8 PFOS	108		50 - 200

QC Sample Results

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

Job ID: 380-202546-1
SDG: PFAS: Ka'amilo Wells P2

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

Lab Sample ID: 380-202531-B-1-A MS
Matrix: Water
Analysis Batch: 213143

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 212996

<i>Isotope Dilution</i>	<i>MS MS</i>	<i>Qualifier</i>	<i>Limits</i>
13C2-4:2-FTS	115		50 - 200
13C2-6:2-FTS	104		50 - 200
13C2-8:2-FTS	113		50 - 200

Lab Sample ID: 380-202531-C-1-A MSD
Matrix: Water
Analysis Batch: 213143

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 212996

<i>Analyte</i>	<i>Sample Result</i>	<i>Sample Qualifier</i>	<i>Spike Added</i>	<i>MSD Result</i>	<i>MSD Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec Limits</i>	<i>RPD</i>	<i>RPD Limit</i>
11-Chloroeicosfluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		120	108		ng/L		90	70 - 130	6	30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		120	111		ng/L		92	70 - 130	9	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		120	100		ng/L		83	70 - 130	5	30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		120	108		ng/L		89	70 - 130	5	30
Perfluorobutanesulfonic acid (PFBS)	<2.0		120	106		ng/L		88	70 - 130	5	30
Perfluorodecanoic acid (PFDA)	<2.0		120	109		ng/L		90	70 - 130	5	30
Perfluorododecanoic acid (PFDoA)	<2.0		120	108		ng/L		89	70 - 130	7	30
Perfluoroheptanoic acid (PFHpA)	<2.0		120	105		ng/L		87	70 - 130	4	30
Perfluorohexanesulfonic acid (PFHxS)	<2.0		120	98.0		ng/L		81	70 - 130	6	30
Perfluorohexanoic acid (PFHxA)	<2.0		120	103		ng/L		85	70 - 130	11	30
Perfluorononanoic acid (PFNA)	<2.0		120	105		ng/L		87	70 - 130	5	30
Perfluorooctanesulfonic acid (PFOS)	<2.0		120	107		ng/L		89	70 - 130	10	30
Perfluorooctanoic acid (PFOA)	<2.0		120	108		ng/L		90	70 - 130	4	30
Perfluoroundecanoic acid (PFUnA)	<2.0		120	109		ng/L		90	70 - 130	2	30
Perfluorobutanoic acid (PFBA)	<2.0		120	106		ng/L		88	70 - 130	2	30
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		120	104		ng/L		86	70 - 130	7	30
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		120	110		ng/L		92	70 - 130	5	30
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		120	106		ng/L		88	70 - 130	8	30
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		120	96.9		ng/L		80	70 - 130	16	30
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<2.0		120	107		ng/L		89	70 - 130	5	30
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		120	108		ng/L		89	70 - 130	4	30
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		120	105		ng/L		87	70 - 130	10	30
Perfluoropentanoic acid (PFPeA)	<2.0		120	104		ng/L		87	70 - 130	13	30
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		120	112		ng/L		93	70 - 130	6	30
Perfluoropentanesulfonic acid (PFPeS)	<2.0		120	98.7		ng/L		82	70 - 130	5	30

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QC Sample Results

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

Job ID: 380-202546-1
SDG: PFAS: Ka'amilo Wells P2

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

<i>Isotope Dilution</i>	<i>MSD</i>	<i>MSD</i>	<i>Limits</i>
<i>%Recovery</i>	<i>Qualifier</i>		
13C3 HFPO-DA	115		50 - 200
13C6 PFDA	119		50 - 200
13C5 PFHxA	120		50 - 200
13C4 PFHpA	120		50 - 200
13C8 PFOA	122		50 - 200
13C9 PFNA	120		50 - 200
13C7 PFUnA	116		50 - 200
13C2 PFDoA	121		50 - 200
13C4 PFBA	119		50 - 200
13C5 PFPeA	126		50 - 200
13C3 PFBS	118		50 - 200
13C3 PFHxS	126		50 - 200
13C8 PFOS	115		50 - 200
13C2-4:2-FTS	118		50 - 200
13C2-6:2-FTS	117		50 - 200
13C2-8:2-FTS	123		50 - 200

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

Lab Sample ID: MBL 380-213002/21-A
Matrix: Water
Analysis Batch: 213177

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 213002

<i>Analyte</i>	<i>MBL</i>	<i>MBL</i>	<i>RL</i>	<i>Unit</i>	<i>D</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
	<i>Result</i>	<i>Qualifier</i>						
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<1.0		2.0	ng/L		03/13/26 08:21	03/13/26 22:00	1
Perfluorooctanesulfonic acid (PFOS)	<0.43		2.0	ng/L		03/13/26 08:21	03/13/26 22:00	1
Perfluoroundecanoic acid (PFUnA)	<0.42		2.0	ng/L		03/13/26 08:21	03/13/26 22:00	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.58		2.0	ng/L		03/13/26 08:21	03/13/26 22:00	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.42		2.0	ng/L		03/13/26 08:21	03/13/26 22:00	1
Perfluorohexanoic acid (PFHxA)	<0.46		2.0	ng/L		03/13/26 08:21	03/13/26 22:00	1
Perfluorododecanoic acid (PFDoA)	<0.54		2.0	ng/L		03/13/26 08:21	03/13/26 22:00	1
Perfluorooctanoic acid (PFOA)	<0.38		2.0	ng/L		03/13/26 08:21	03/13/26 22:00	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	ng/L		03/13/26 08:21	03/13/26 22:00	1
Perfluorohexanesulfonic acid (PFHxS)	<0.32		2.0	ng/L		03/13/26 08:21	03/13/26 22:00	1
Perfluorobutanesulfonic acid (PFBS)	<0.37		2.0	ng/L		03/13/26 08:21	03/13/26 22:00	1
Perfluoroheptanoic acid (PFHpA)	<0.39		2.0	ng/L		03/13/26 08:21	03/13/26 22:00	1
Perfluorononanoic acid (PFNA)	<0.40		2.0	ng/L		03/13/26 08:21	03/13/26 22:00	1
Perfluorotetradecanoic acid (PFTA)	<0.54		2.0	ng/L		03/13/26 08:21	03/13/26 22:00	1
Perfluorotridecanoic acid (PFTrDA)	<0.36		2.0	ng/L		03/13/26 08:21	03/13/26 22:00	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<0.30		2.0	ng/L		03/13/26 08:21	03/13/26 22:00	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<0.30		2.0	ng/L		03/13/26 08:21	03/13/26 22:00	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.60		2.0	ng/L		03/13/26 08:21	03/13/26 22:00	1
<i>Surrogate</i>	<i>MBL</i>	<i>MBL</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
	<i>%Recovery</i>	<i>Qualifier</i>						
d5-NEtFOSAA	102		70 - 130			03/13/26 08:21	03/13/26 22:00	1
13C2 PFHxA	102		70 - 130			03/13/26 08:21	03/13/26 22:00	1
13C2 PFDA	104		70 - 130			03/13/26 08:21	03/13/26 22:00	1

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QC Sample Results

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

Job ID: 380-202546-1
SDG: PFAS: Ka'amilo Wells P2

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

Lab Sample ID: MBL 380-213002/21-A
Matrix: Water
Analysis Batch: 213177

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 213002

<i>Surrogate</i>	<i>MBL</i>	<i>MBL</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C3-GenX	103	Qualifier	70 - 130	03/13/26 08:21	03/13/26 22:00	1

Lab Sample ID: LCS 380-213002/23-A
Matrix: Water
Analysis Batch: 213177

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 213002

<i>Analyte</i>	<i>Spike</i>	<i>LCS</i>	<i>LCS</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec</i>	<i>Limits</i>
	<i>Added</i>	<i>Result</i>	<i>Qualifier</i>					
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	50.2	43.4		ng/L		86		70 - 130
Perfluorooctanesulfonic acid (PFOS)	50.2	53.7		ng/L		107		70 - 130
Perfluoroundecanoic acid (PFUnA)	50.2	51.1		ng/L		102		70 - 130
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	50.2	45.8		ng/L		91		70 - 130
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	50.2	44.2		ng/L		88		70 - 130
Perfluorohexanoic acid (PFHxA)	50.2	46.0		ng/L		92		70 - 130
Perfluorododecanoic acid (PFDoA)	50.2	51.7		ng/L		103		70 - 130
Perfluorooctanoic acid (PFOA)	50.2	48.6		ng/L		97		70 - 130
Perfluorodecanoic acid (PFDA)	50.2	52.7		ng/L		105		70 - 130
Perfluorohexanesulfonic acid (PFHxS)	50.2	53.6		ng/L		107		70 - 130
Perfluorobutanesulfonic acid (PFBS)	50.2	53.6		ng/L		107		70 - 130
Perfluoroheptanoic acid (PFHpA)	50.2	46.9		ng/L		93		70 - 130
Perfluorononanoic acid (PFNA)	50.2	50.5		ng/L		101		70 - 130
Perfluorotetradecanoic acid (PFTA)	50.2	43.2		ng/L		86		70 - 130
Perfluorotridecanoic acid (PFTrDA)	50.2	54.0		ng/L		108		70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	50.2	50.9		ng/L		101		70 - 130
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	50.2	47.6		ng/L		95		70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	50.2	43.8		ng/L		87		70 - 130

<i>Surrogate</i>	<i>LCS</i>	<i>LCS</i>	<i>Limits</i>
	<i>%Recovery</i>	<i>Qualifier</i>	
d5-NEtFOSAA	95		70 - 130
13C2 PFHxA	98		70 - 130
13C2 PFDA	110		70 - 130
13C3-GenX	97		70 - 130

QC Sample Results

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

Job ID: 380-202546-1
SDG: PFAS: Ka'amilo Wells P2

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

Lab Sample ID: MRL 380-213002/22-A
Matrix: Water
Analysis Batch: 213177

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 213002

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	Limits
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	2.01	2.18	J	ng/L		109	50 - 150
Perfluorooctanesulfonic acid (PFOS)	2.01	2.36	J	ng/L		117	50 - 150
Perfluoroundecanoic acid (PFUnA)	2.01	2.07	J	ng/L		103	50 - 150
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.01	2.15	J	ng/L		107	50 - 150
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.01	2.03	J	ng/L		101	50 - 150
Perfluorohexanoic acid (PFHxA)	2.01	2.10	J	ng/L		105	50 - 150
Perfluorododecanoic acid (PFDoA)	2.01	2.11	J	ng/L		105	50 - 150
Perfluorooctanoic acid (PFOA)	2.01	2.09	J	ng/L		104	50 - 150
Perfluorodecanoic acid (PFDA)	2.01	2.24	J	ng/L		112	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	2.01	2.24	J	ng/L		112	50 - 150
Perfluorobutanesulfonic acid (PFBS)	2.01	2.12	J	ng/L		106	50 - 150
Perfluoroheptanoic acid (PFHpA)	2.01	2.20	J	ng/L		109	50 - 150
Perfluorononanoic acid (PFNA)	2.01	2.17	J	ng/L		108	50 - 150
Perfluorotetradecanoic acid (PFTA)	2.01	1.58	J	ng/L		79	50 - 150
Perfluorotridecanoic acid (PFTrDA)	2.01	2.17	J	ng/L		108	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	2.01	2.12	J	ng/L		106	50 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.01	1.93	J	ng/L		96	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	2.01	2.02	J	ng/L		100	50 - 150

Surrogate	MRL %Recovery	MRL Qualifier	Limits
d5-NEtFOSAA	104		70 - 130
13C2 PFHxA	106		70 - 130
13C2 PFDA	109		70 - 130
13C3-GenX	111		70 - 130

Lab Sample ID: 380-201912-BU-1-A MS
Matrix: Water
Analysis Batch: 213177

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 213002

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		50.2	51.3		ng/L		102	70 - 130
Perfluorooctanesulfonic acid (PFOS)	<2.0		50.2	52.3		ng/L		104	70 - 130
Perfluoroundecanoic acid (PFUnA)	<2.0		50.2	51.4		ng/L		102	70 - 130
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		50.2	49.9		ng/L		99	70 - 130

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QC Association Summary

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

Job ID: 380-202546-1
SDG: PFAS: Ka'amilo Wells P2

LCMS

Prep Batch: 212996

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-202546-1	Ka'amilo Wells P2 (331-600-WL085)	Total/NA	Water	533	
380-202546-2	FB: Ka'amilo Wells P2 (331-600-WL085)	Total/NA	Water	533	
MBL 380-212996/20-A	Method Blank	Total/NA	Water	533	
LCS 380-212996/22-A	Lab Control Sample	Total/NA	Water	533	
MRL 380-212996/21-A	Lab Control Sample	Total/NA	Water	533	
380-202531-B-1-A MS	Matrix Spike	Total/NA	Water	533	
380-202531-C-1-A MSD	Matrix Spike Duplicate	Total/NA	Water	533	

Prep Batch: 213002

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-202546-1	Ka'amilo Wells P2 (331-600-WL085)	Total/NA	Water	537.1 DW	
380-202546-2	FB: Ka'amilo Wells P2 (331-600-WL085)	Total/NA	Water	537.1 DW	
MBL 380-213002/21-A	Method Blank	Total/NA	Water	537.1 DW	
LCS 380-213002/23-A	Lab Control Sample	Total/NA	Water	537.1 DW	
MRL 380-213002/22-A	Lab Control Sample	Total/NA	Water	537.1 DW	
380-201912-BU-1-A MS	Matrix Spike	Total/NA	Water	537.1 DW	
380-201912-BV-1-A MSD	Matrix Spike Duplicate	Total/NA	Water	537.1 DW	

Analysis Batch: 213143

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-202546-1	Ka'amilo Wells P2 (331-600-WL085)	Total/NA	Water	533	212996
380-202546-2	FB: Ka'amilo Wells P2 (331-600-WL085)	Total/NA	Water	533	212996
MBL 380-212996/20-A	Method Blank	Total/NA	Water	533	212996
LCS 380-212996/22-A	Lab Control Sample	Total/NA	Water	533	212996
MRL 380-212996/21-A	Lab Control Sample	Total/NA	Water	533	212996
380-202531-B-1-A MS	Matrix Spike	Total/NA	Water	533	212996
380-202531-C-1-A MSD	Matrix Spike Duplicate	Total/NA	Water	533	212996

Analysis Batch: 213177

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-202546-1	Ka'amilo Wells P2 (331-600-WL085)	Total/NA	Water	EPA 537.1 V2	213002
380-202546-2	FB: Ka'amilo Wells P2 (331-600-WL085)	Total/NA	Water	EPA 537.1 V2	213002
MBL 380-213002/21-A	Method Blank	Total/NA	Water	EPA 537.1 V2	213002
LCS 380-213002/23-A	Lab Control Sample	Total/NA	Water	EPA 537.1 V2	213002
MRL 380-213002/22-A	Lab Control Sample	Total/NA	Water	EPA 537.1 V2	213002
380-201912-BU-1-A MS	Matrix Spike	Total/NA	Water	EPA 537.1 V2	213002
380-201912-BV-1-A MSD	Matrix Spike Duplicate	Total/NA	Water	EPA 537.1 V2	213002

Lab Chronicle

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

Job ID: 380-202546-1
SDG: PFAS: Ka'amilo Wells P2

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

Lab Sample ID: 380-202546-1

Date Collected: 03/09/26 12:53

Matrix: Water

Date Received: 03/11/26 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			212996	XTD8	EA POM	03/13/26 06:38
Total/NA	Analysis	533		1	213143	SZ9R	EA POM	03/13/26 19:13
Total/NA	Prep	537.1 DW			213002	E9PK	EA POM	03/13/26 08:21
Total/NA	Analysis	EPA 537.1 V2		1	213177	SZ9R	EA POM	03/13/26 23:53

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

Lab Sample ID: 380-202546-2

Date Collected: 03/09/26 12:53

Matrix: Water

Date Received: 03/11/26 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			212996	XTD8	EA POM	03/13/26 06:38
Total/NA	Analysis	533		1	213143	SZ9R	EA POM	03/13/26 19:23
Total/NA	Prep	537.1 DW			213002	E9PK	EA POM	03/13/26 08:21
Total/NA	Analysis	EPA 537.1 V2		1	213177	SZ9R	EA POM	03/14/26 00:02

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: 380-202546-1
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
- 2
- 3
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- 13
- 14
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- 16
- 17

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

Method Summary

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

Job ID: 380-202546-1
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: 380-202546-1
SDG: PFAS: Ka'amilo Wells P2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	PWSID Number
380-202546-1	Ka'amilo Wells P2 (331-600-WL085)	Water	03/09/26 12:53	03/11/26 09:30	HI0000331
380-202546-2	FB: Ka'amilo Wells P2 (331-600-WL085)	Water	03/09/26 12:53	03/11/26 09:30	HI0000331

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Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-202546-1
SDG Number: PFAS: Ka'amilo Wells P2

Login Number: 202546

List Number: 1

Creator: Del Rosario, Michael

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").	N/A	
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	

