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ANALYTICAL REPORT

PREPARED FOR

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JOB DESCRIPTION

RED-HILL
PFAS: Ka'amilo Wells P2

JOB NUMBER

380-216807-1

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: 380-216807-1
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: 380-216807-1

Job ID: 380-216807-1

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Job Narrative 380-216807-1

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 5/29/2026 10:03 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.6°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) (380-216807-1)

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: 380-216807-1
SDG: PFAS: Ka'amilo Wells P2

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

Lab Sample ID: 380-216807-1

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid (PFBS)	3.4		2.0	ng/L	1		533	Total/NA
Perfluoroheptanoic acid (PFHpA)	2.3		2.0	ng/L	1		533	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	4.1		2.0	ng/L	1		533	Total/NA
Perfluorohexanoic acid (PFHxA)	4.3		2.0	ng/L	1		533	Total/NA
Perfluorooctanesulfonic acid (PFOS)	5.3		2.0	ng/L	1		533	Total/NA
Perfluorooctanoic acid (PFOA)	4.2		2.0	ng/L	1		533	Total/NA
Perfluorobutanoic acid (PFBA)	2.1		2.0	ng/L	1		533	Total/NA
Perfluoropentanoic acid (PFPeA)	4.7		2.0	ng/L	1		533	Total/NA
Perfluorooctanesulfonic acid (PFOS)	5.5		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)	4.4		2.0	ng/L	1		EPA 537.1 V2	Total/NA
Perfluorobutanesulfonic acid (PFBS)	3.7		2.0	ng/L	1		EPA 537.1 V2	Total/NA
Perfluoroheptanoic acid (PFHpA)	2.4		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: 380-216807-2

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: 380-216807-1
SDG: PFAS: Ka'amilo Wells P2

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

Lab Sample ID: 380-216807-1

Date Collected: 05/26/26 12:42

Matrix: Water

Date Received: 05/29/26 10:03

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		05/30/26 06:17	06/02/26 13:03	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		05/30/26 06:17	06/02/26 13:03	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		05/30/26 06:17	06/02/26 13:03	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		05/30/26 06:17	06/02/26 13:03	1
Perfluorobutanesulfonic acid (PFBS)	3.4		2.0	ng/L		05/30/26 06:17	06/02/26 13:03	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		05/30/26 06:17	06/02/26 13:03	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		05/30/26 06:17	06/02/26 13:03	1
Perfluoroheptanoic acid (PFHpA)	2.3		2.0	ng/L		05/30/26 06:17	06/02/26 13:03	1
Perfluorohexanesulfonic acid (PFHxS)	4.1		2.0	ng/L		05/30/26 06:17	06/02/26 13:03	1
Perfluorohexanoic acid (PFHxA)	4.3		2.0	ng/L		05/30/26 06:17	06/02/26 13:03	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		05/30/26 06:17	06/02/26 13:03	1
Perfluorooctanesulfonic acid (PFOS)	5.3		2.0	ng/L		05/30/26 06:17	06/02/26 13:03	1
Perfluorooctanoic acid (PFOA)	4.2		2.0	ng/L		05/30/26 06:17	06/02/26 13:03	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		05/30/26 06:17	06/02/26 13:03	1
Perfluorobutanoic acid (PFBA)	2.1		2.0	ng/L		05/30/26 06:17	06/02/26 13:03	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0	ng/L		05/30/26 06:17	06/02/26 13:03	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0	ng/L		05/30/26 06:17	06/02/26 13:03	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0	ng/L		05/30/26 06:17	06/02/26 13:03	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		2.0	ng/L		05/30/26 06:17	06/02/26 13:03	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<2.0		2.0	ng/L		05/30/26 06:17	06/02/26 13:03	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		05/30/26 06:17	06/02/26 13:03	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		05/30/26 06:17	06/02/26 13:03	1
Perfluoropentanoic acid (PFPeA)	4.7		2.0	ng/L		05/30/26 06:17	06/02/26 13:03	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		05/30/26 06:17	06/02/26 13:03	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		05/30/26 06:17	06/02/26 13:03	1
Isotope Dilution	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	81		50 - 200			05/30/26 06:17	06/02/26 13:03	1
13C6 PFDA	99		50 - 200			05/30/26 06:17	06/02/26 13:03	1
13C5 PFHxA	94		50 - 200			05/30/26 06:17	06/02/26 13:03	1
13C4 PFHpA	93		50 - 200			05/30/26 06:17	06/02/26 13:03	1
13C8 PFOA	97		50 - 200			05/30/26 06:17	06/02/26 13:03	1
13C9 PFNA	100		50 - 200			05/30/26 06:17	06/02/26 13:03	1
13C7 PFUnA	104		50 - 200			05/30/26 06:17	06/02/26 13:03	1
13C2 PFDoA	114		50 - 200			05/30/26 06:17	06/02/26 13:03	1
13C4 PFBA	101		50 - 200			05/30/26 06:17	06/02/26 13:03	1
13C5 PFPeA	101		50 - 200			05/30/26 06:17	06/02/26 13:03	1
13C3 PFBS	105		50 - 200			05/30/26 06:17	06/02/26 13:03	1

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Client Sample Results

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

Job ID: 380-216807-1
SDG: PFAS: Ka'amilo Wells P2

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

Lab Sample ID: 380-216807-1

Date Collected: 05/26/26 12:42

Matrix: Water

Date Received: 05/29/26 10:03

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	112		50 - 200	05/30/26 06:17	06/02/26 13:03	1
13C8 PFOS	112		50 - 200	05/30/26 06:17	06/02/26 13:03	1
13C2-4:2-FTS	136		50 - 200	05/30/26 06:17	06/02/26 13:03	1
13C2-6:2-FTS	134		50 - 200	05/30/26 06:17	06/02/26 13:03	1
13C2-8:2-FTS	138		50 - 200	05/30/26 06:17	06/02/26 13:03	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		05/30/26 09:29	06/01/26 10:34	1
Perfluorooctanesulfonic acid (PFOS)	5.5		2.0	ng/L		05/30/26 09:29	06/01/26 10:34	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		05/30/26 09:29	06/01/26 10:34	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		2.0	ng/L		05/30/26 09:29	06/01/26 10:34	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		2.0	ng/L		05/30/26 09:29	06/01/26 10:34	1
Perfluorohexanoic acid (PFHxA)	4.5		2.0	ng/L		05/30/26 09:29	06/01/26 10:34	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		05/30/26 09:29	06/01/26 10:34	1
Perfluorooctanoic acid (PFOA)	4.5		2.0	ng/L		05/30/26 09:29	06/01/26 10:34	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		05/30/26 09:29	06/01/26 10:34	1
Perfluorohexanesulfonic acid (PFHxS)	4.4		2.0	ng/L		05/30/26 09:29	06/01/26 10:34	1
Perfluorobutanesulfonic acid (PFBS)	3.7		2.0	ng/L		05/30/26 09:29	06/01/26 10:34	1
Perfluoroheptanoic acid (PFHpA)	2.4		2.0	ng/L		05/30/26 09:29	06/01/26 10:34	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		05/30/26 09:29	06/01/26 10:34	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0	ng/L		05/30/26 09:29	06/01/26 10:34	1
Perfluorotridecanoic acid (PFTrDA)	<2.0		2.0	ng/L		05/30/26 09:29	06/01/26 10:34	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		05/30/26 09:29	06/01/26 10:34	1
11-Chloroeicosfluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		05/30/26 09:29	06/01/26 10:34	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		05/30/26 09:29	06/01/26 10:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	97		70 - 130	05/30/26 09:29	06/01/26 10:34	1
13C2 PFHxA	104		70 - 130	05/30/26 09:29	06/01/26 10:34	1
13C2 PFDA	98		70 - 130	05/30/26 09:29	06/01/26 10:34	1
13C3-GenX	98		70 - 130	05/30/26 09:29	06/01/26 10:34	1

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

Lab Sample ID: 380-216807-2

Date Collected: 05/26/26 12:42

Matrix: Water

Date Received: 05/29/26 10:03

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-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		05/30/26 06:17	06/02/26 16:29	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		05/30/26 06:17	06/02/26 16:29	1

Client Sample Results

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

Job ID: 380-216807-1
SDG: PFAS: Ka'amilo Wells P2

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

Lab Sample ID: 380-216807-2

Date Collected: 05/26/26 12:42

Matrix: Water

Date Received: 05/29/26 10:03

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		05/30/26 06:17	06/02/26 16:29	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		05/30/26 06:17	06/02/26 16:29	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		05/30/26 06:17	06/02/26 16:29	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		05/30/26 06:17	06/02/26 16:29	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		05/30/26 06:17	06/02/26 16:29	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		05/30/26 06:17	06/02/26 16:29	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		05/30/26 06:17	06/02/26 16:29	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		05/30/26 06:17	06/02/26 16:29	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		05/30/26 06:17	06/02/26 16:29	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		05/30/26 06:17	06/02/26 16:29	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		05/30/26 06:17	06/02/26 16:29	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		05/30/26 06:17	06/02/26 16:29	1
Perfluorobutanoic acid (PFBA)	<2.0		2.0	ng/L		05/30/26 06:17	06/02/26 16:29	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0	ng/L		05/30/26 06:17	06/02/26 16:29	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0	ng/L		05/30/26 06:17	06/02/26 16:29	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0	ng/L		05/30/26 06:17	06/02/26 16:29	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		2.0	ng/L		05/30/26 06:17	06/02/26 16:29	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<2.0		2.0	ng/L		05/30/26 06:17	06/02/26 16:29	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		05/30/26 06:17	06/02/26 16:29	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		05/30/26 06:17	06/02/26 16:29	1
Perfluoropentanoic acid (PFPeA)	<2.0		2.0	ng/L		05/30/26 06:17	06/02/26 16:29	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		05/30/26 06:17	06/02/26 16:29	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		05/30/26 06:17	06/02/26 16:29	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	94		50 - 200	05/30/26 06:17	06/02/26 16:29	1
13C6 PFDA	103		50 - 200	05/30/26 06:17	06/02/26 16:29	1
13C5 PFHxA	100		50 - 200	05/30/26 06:17	06/02/26 16:29	1
13C4 PFHpA	100		50 - 200	05/30/26 06:17	06/02/26 16:29	1
13C8 PFOA	105		50 - 200	05/30/26 06:17	06/02/26 16:29	1
13C9 PFNA	109		50 - 200	05/30/26 06:17	06/02/26 16:29	1
13C7 PFUnA	106		50 - 200	05/30/26 06:17	06/02/26 16:29	1
13C2 PFDoA	114		50 - 200	05/30/26 06:17	06/02/26 16:29	1
13C4 PFBA	108		50 - 200	05/30/26 06:17	06/02/26 16:29	1
13C5 PFPeA	102		50 - 200	05/30/26 06:17	06/02/26 16:29	1
13C3 PFBS	99		50 - 200	05/30/26 06:17	06/02/26 16:29	1
13C3 PFHxS	105		50 - 200	05/30/26 06:17	06/02/26 16:29	1
13C8 PFOS	110		50 - 200	05/30/26 06:17	06/02/26 16:29	1
13C2-4:2-FTS	123		50 - 200	05/30/26 06:17	06/02/26 16:29	1
13C2-6:2-FTS	125		50 - 200	05/30/26 06:17	06/02/26 16:29	1
13C2-8:2-FTS	130		50 - 200	05/30/26 06:17	06/02/26 16:29	1

Eurofins Pomona

Client Sample Results

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

Job ID: 380-216807-1
SDG: PFAS: Ka'amilo Wells P2

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

Lab Sample ID: 380-216807-2

Date Collected: 05/26/26 12:42

Matrix: Water

Date Received: 05/29/26 10:03

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		05/30/26 09:29	06/01/26 13:09	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		05/30/26 09:29	06/01/26 13:09	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		05/30/26 09:29	06/01/26 13:09	1
N-methylperfluorooctanesulfonamideacetic acid (NMeFOSAA)	<2.0		2.0	ng/L		05/30/26 09:29	06/01/26 13:09	1
N-ethylperfluorooctanesulfonamideacetic acid (NEtFOSAA)	<2.0		2.0	ng/L		05/30/26 09:29	06/01/26 13:09	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		05/30/26 09:29	06/01/26 13:09	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		05/30/26 09:29	06/01/26 13:09	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		05/30/26 09:29	06/01/26 13:09	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		05/30/26 09:29	06/01/26 13:09	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		05/30/26 09:29	06/01/26 13:09	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		05/30/26 09:29	06/01/26 13:09	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		05/30/26 09:29	06/01/26 13:09	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		05/30/26 09:29	06/01/26 13:09	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0	ng/L		05/30/26 09:29	06/01/26 13:09	1
Perfluorotridecanoic acid (PFTrDA)	<2.0		2.0	ng/L		05/30/26 09:29	06/01/26 13:09	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		05/30/26 09:29	06/01/26 13:09	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		05/30/26 09:29	06/01/26 13:09	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		05/30/26 09:29	06/01/26 13:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	96		70 - 130			05/30/26 09:29	06/01/26 13:09	1
13C2 PFHxA	109		70 - 130			05/30/26 09:29	06/01/26 13:09	1
13C2 PFDA	101		70 - 130			05/30/26 09:29	06/01/26 13:09	1
13C3-GenX	97		70 - 130			05/30/26 09:29	06/01/26 13:09	1

Action Limit Summary

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

Job ID: 380-216807-1
SDG: PFAS: Ka'amilo Wells P2

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

Lab Sample ID: 380-216807-1

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)	4.1		ng/L	10	2.0	533	Total/NA
Perfluorononanoic acid (PFNA)	<2.0		ng/L	10	2.0	533	Total/NA
Perfluorooctanesulfonic acid (PFOS)	5.3		ng/L	4	2.0	533	Total/NA
Perfluorooctanoic acid (PFOA)	4.2		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)	5.5		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)	4.4		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: 380-216807-2

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: 380-216807-1
 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)
380-216807-1	Ka'amilo Wells P2 (331-600-WL085)	97	104	98	98
380-216807-1 MS	Ka'amilo Wells P2 (331-600-WL085)	94	105	101	98
380-216807-1 MSD	Ka'amilo Wells P2 (331-600-WL085)	92	104	101	96
380-216807-2	FB: Ka'amilo Wells P2 (331-600-WL085)	96	109	101	97
LCS 380-230553/23-A	Lab Control Sample	95	110	101	99
MBL 380-230553/21-A	Method Blank	104	106	102	100
MRL 380-230553/22-A	Lab Control Sample	100	112	104	110

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: 380-216807-1
 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)
380-216807-1	Ka'amilo Wells P2 (331-600-WL085)	81	99	94	93	97	100	104	114
380-216807-1 MS	Ka'amilo Wells P2 (331-600-WL085)	98	115	103	104	102	109	122	123
380-216807-1 MSD	Ka'amilo Wells P2 (331-600-WL085)	88	111	93	96	91	104	116	114
380-216807-2	FB: Ka'amilo Wells P2 (331-600-WL085)	94	103	100	100	105	109	106	114
LCS 380-230545/22-A	Lab Control Sample	73	84	76	76	80	87	92	99
MBL 380-230545/20-A	Method Blank	96	115	100	100	106	107	113	124
MRL 380-230545/21-A	Lab Control Sample	71	67	75	72	73	73	63	57

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)
380-216807-1	Ka'amilo Wells P2 (331-600-WL085)	101	101	105	112	112	136	134	138
380-216807-1 MS	Ka'amilo Wells P2 (331-600-WL085)	106	115	98	101	106	117	126	124
380-216807-1 MSD	Ka'amilo Wells P2 (331-600-WL085)	99	105	100	103	105	132	127	132
380-216807-2	FB: Ka'amilo Wells P2 (331-600-WL085)	108	102	99	105	110	123	125	130
LCS 380-230545/22-A	Lab Control Sample	88	82	99	104	106	124	126	126
MBL 380-230545/20-A	Method Blank	102	107	95	105	109	122	127	130
MRL 380-230545/21-A	Lab Control Sample	83	79	88	99	108	127	123	130

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: 380-216807-1
SDG: PFAS: Ka'amilo Wells P2

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

Lab Sample ID: MBL 380-230545/20-A
Matrix: Water
Analysis Batch: 231040

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 230545

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosafuoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS)	<0.30		2.0	ng/L		05/30/26 06:17	06/02/26 12:33	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS)	<0.30		2.0	ng/L		05/30/26 06:17	06/02/26 12:33	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.60		2.0	ng/L		05/30/26 06:17	06/02/26 12:33	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<1.0		2.0	ng/L		05/30/26 06:17	06/02/26 12:33	1
Perfluorobutanesulfonic acid (PFBS)	<0.37		2.0	ng/L		05/30/26 06:17	06/02/26 12:33	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	ng/L		05/30/26 06:17	06/02/26 12:33	1
Perfluorododecanoic acid (PFDoA)	<0.54		2.0	ng/L		05/30/26 06:17	06/02/26 12:33	1
Perfluoroheptanoic acid (PFHpA)	<0.39		2.0	ng/L		05/30/26 06:17	06/02/26 12:33	1
Perfluorohexanesulfonic acid (PFHxS)	<0.32		2.0	ng/L		05/30/26 06:17	06/02/26 12:33	1
Perfluorohexanoic acid (PFHxA)	<0.46		2.0	ng/L		05/30/26 06:17	06/02/26 12:33	1
Perfluorononanoic acid (PFNA)	<0.40		2.0	ng/L		05/30/26 06:17	06/02/26 12:33	1
Perfluorooctanesulfonic acid (PFOS)	<0.43		2.0	ng/L		05/30/26 06:17	06/02/26 12:33	1
Perfluorooctanoic acid (PFOA)	<0.38		2.0	ng/L		05/30/26 06:17	06/02/26 12:33	1
Perfluoroundecanoic acid (PFUnA)	<0.42		2.0	ng/L		05/30/26 06:17	06/02/26 12:33	1
Perfluorobutanoic acid (PFBA)	<0.69		2.0	ng/L		05/30/26 06:17	06/02/26 12:33	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<0.38		2.0	ng/L		05/30/26 06:17	06/02/26 12:33	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<0.37		2.0	ng/L		05/30/26 06:17	06/02/26 12:33	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<0.48		2.0	ng/L		05/30/26 06:17	06/02/26 12:33	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.47		2.0	ng/L		05/30/26 06:17	06/02/26 12:33	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<0.25		2.0	ng/L		05/30/26 06:17	06/02/26 12:33	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.46		2.0	ng/L		05/30/26 06:17	06/02/26 12:33	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.15		2.0	ng/L		05/30/26 06:17	06/02/26 12:33	1
Perfluoropentanoic acid (PFPeA)	0.450 J		2.0	ng/L		05/30/26 06:17	06/02/26 12:33	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.36		2.0	ng/L		05/30/26 06:17	06/02/26 12:33	1
Perfluoropentanesulfonic acid (PFPeS)	<0.39		2.0	ng/L		05/30/26 06:17	06/02/26 12:33	1

Isotope Dilution	MBL %Recovery	MBL Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	96		50 - 200	05/30/26 06:17	06/02/26 12:33	1
13C6 PFDA	115		50 - 200	05/30/26 06:17	06/02/26 12:33	1
13C5 PFHxA	100		50 - 200	05/30/26 06:17	06/02/26 12:33	1
13C4 PFHpA	100		50 - 200	05/30/26 06:17	06/02/26 12:33	1
13C8 PFOA	106		50 - 200	05/30/26 06:17	06/02/26 12:33	1
13C9 PFNA	107		50 - 200	05/30/26 06:17	06/02/26 12:33	1
13C7 PFUnA	113		50 - 200	05/30/26 06:17	06/02/26 12:33	1
13C2 PFDoA	124		50 - 200	05/30/26 06:17	06/02/26 12:33	1
13C4 PFBA	102		50 - 200	05/30/26 06:17	06/02/26 12:33	1
13C5 PFPeA	107		50 - 200	05/30/26 06:17	06/02/26 12:33	1
13C3 PFBS	95		50 - 200	05/30/26 06:17	06/02/26 12:33	1
13C3 PFHxS	105		50 - 200	05/30/26 06:17	06/02/26 12:33	1

Eurofins Pomona

QC Sample Results

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

Job ID: 380-216807-1
SDG: PFAS: Ka'amilo Wells P2

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

Lab Sample ID: MBL 380-230545/20-A
Matrix: Water
Analysis Batch: 231040

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 230545

Isotope Dilution	MBL MBL		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C8 PFOS	109		50 - 200	05/30/26 06:17	06/02/26 12:33	1
13C2-4:2-FTS	122		50 - 200	05/30/26 06:17	06/02/26 12:33	1
13C2-6:2-FTS	127		50 - 200	05/30/26 06:17	06/02/26 12:33	1
13C2-8:2-FTS	130		50 - 200	05/30/26 06:17	06/02/26 12:33	1

Lab Sample ID: LCS 380-230545/22-A
Matrix: Water
Analysis Batch: 231040

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 230545

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec
							Limits
11-Chloroeicosfluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	60.1	55.6		ng/L		92	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	60.1	58.7		ng/L		98	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	60.1	59.2		ng/L		99	70 - 130
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	60.1	58.1		ng/L		97	70 - 130
Perfluorobutanesulfonic acid (PFBS)	60.1	56.7		ng/L		94	70 - 130
Perfluorodecanoic acid (PFDA)	60.1	57.6		ng/L		96	70 - 130
Perfluorododecanoic acid (PFDoA)	60.1	56.9		ng/L		95	70 - 130
Perfluoroheptanoic acid (PFHpA)	60.1	61.2		ng/L		102	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	60.1	56.9		ng/L		95	70 - 130
Perfluorohexanoic acid (PFHxA)	60.1	61.1		ng/L		102	70 - 130
Perfluorononanoic acid (PFNA)	60.1	55.1		ng/L		92	70 - 130
Perfluorooctanesulfonic acid (PFOS)	60.1	57.6		ng/L		96	70 - 130
Perfluorooctanoic acid (PFOA)	60.1	58.3		ng/L		97	70 - 130
Perfluoroundecanoic acid (PFUnA)	60.1	53.5		ng/L		89	70 - 130
Perfluorobutanoic acid (PFBA)	60.1	56.0		ng/L		93	70 - 130
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	60.1	59.6		ng/L		99	70 - 130
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	60.1	54.9		ng/L		91	70 - 130
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	60.1	59.4		ng/L		99	70 - 130
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	60.1	52.9		ng/L		88	70 - 130
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	60.1	53.8		ng/L		89	70 - 130
Perfluoro-3-methoxypropanoic acid (PFMPA)	60.1	61.8		ng/L		103	70 - 130
Perfluoro-4-methoxybutanoic acid (PFMBA)	60.1	57.8		ng/L		96	70 - 130
Perfluoropentanoic acid (PFPeA)	60.1	60.1		ng/L		100	70 - 130
Perfluoroheptanesulfonic acid (PFHpS)	60.1	58.3		ng/L		97	70 - 130

QC Sample Results

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

Job ID: 380-216807-1
SDG: PFAS: Ka'amilo Wells P2

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

Lab Sample ID: LCS 380-230545/22-A
Matrix: Water
Analysis Batch: 231040

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 230545

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoropentanesulfonic acid (PFPeS)	60.1	50.4		ng/L		84	70 - 130
LCS LCS							
Isotope Dilution	%Recovery	Qualifier	Limits				
13C3 HFPO-DA	73		50 - 200				
13C6 PFDA	84		50 - 200				
13C5 PFHxA	76		50 - 200				
13C4 PFHpA	76		50 - 200				
13C8 PFOA	80		50 - 200				
13C9 PFNA	87		50 - 200				
13C7 PFUnA	92		50 - 200				
13C2 PFDoA	99		50 - 200				
13C4 PFBA	88		50 - 200				
13C5 PFPeA	82		50 - 200				
13C3 PFBS	99		50 - 200				
13C3 PFHxS	104		50 - 200				
13C8 PFOS	106		50 - 200				
13C2-4:2-FTS	124		50 - 200				
13C2-6:2-FTS	126		50 - 200				
13C2-8:2-FTS	126		50 - 200				

Lab Sample ID: MRL 380-230545/21-A
Matrix: Water
Analysis Batch: 231040

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 230545

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
11-Chloroeicosfluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.01	1.94	J	ng/L		97	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	2.01	1.99	J	ng/L		99	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	2.01	2.03	J	ng/L		101	50 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	2.01	2.01	J	ng/L		100	50 - 150
Perfluorobutanesulfonic acid (PFBS)	2.01	2.19	J	ng/L		109	50 - 150
Perfluorodecanoic acid (PFDA)	2.01	2.25	J	ng/L		112	50 - 150
Perfluorododecanoic acid (PFDoA)	2.01	2.30	J	ng/L		115	50 - 150
Perfluoroheptanoic acid (PFHpA)	2.01	2.37	J	ng/L		118	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	2.01	2.24	J	ng/L		112	50 - 150
Perfluorohexanoic acid (PFHxA)	2.01	2.29	J	ng/L		114	50 - 150
Perfluorononanoic acid (PFNA)	2.01	2.04	J	ng/L		102	50 - 150
Perfluorooctanesulfonic acid (PFOS)	2.01	2.12	J	ng/L		105	50 - 150
Perfluorooctanoic acid (PFOA)	2.01	2.33	J	ng/L		116	50 - 150
Perfluoroundecanoic acid (PFUnA)	2.01	2.01	J	ng/L		100	50 - 150
Perfluorobutanoic acid (PFBA)	2.01	2.47	J	ng/L		123	50 - 150

Eurofins Pomona

QC Sample Results

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

Job ID: 380-216807-1
SDG: PFAS: Ka'amilo Wells P2

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

Lab Sample ID: MRL 380-230545/21-A
Matrix: Water
Analysis Batch: 231040

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 230545

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	2.01	1.99	J	ng/L		99	50 - 150
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	2.01	2.13	J	ng/L		106	50 - 150
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	2.01	2.47	J	ng/L		123	50 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	2.01	1.92	J	ng/L		96	50 - 150
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	2.01	2.20	J	ng/L		109	50 - 150
Perfluoro-3-methoxypropanoic acid (PFMPA)	2.01	2.15	J	ng/L		107	50 - 150
Perfluoro-4-methoxybutanoic acid (PFMBA)	2.01	2.01	J	ng/L		100	50 - 150
Perfluoropentanoic acid (PFPeA)	2.01	2.50	J	ng/L		125	50 - 150
Perfluoroheptanesulfonic acid (PFHpS)	2.01	2.03	J	ng/L		101	50 - 150
Perfluoropentanesulfonic acid (PFPeS)	2.01	1.96	J	ng/L		97	50 - 150

Isotope Dilution	MRL %Recovery	MRL Qualifier	MRL Limits
13C3 HFPO-DA	71		50 - 200
13C6 PFDA	67		50 - 200
13C5 PFHxA	75		50 - 200
13C4 PFHpA	72		50 - 200
13C8 PFOA	73		50 - 200
13C9 PFNA	73		50 - 200
13C7 PFUnA	63		50 - 200
13C2 PFDoA	57		50 - 200
13C4 PFBA	83		50 - 200
13C5 PFPeA	79		50 - 200
13C3 PFBS	88		50 - 200
13C3 PFHxS	99		50 - 200
13C8 PFOS	108		50 - 200
13C2-4:2-FTS	127		50 - 200
13C2-6:2-FTS	123		50 - 200
13C2-8:2-FTS	130		50 - 200

Lab Sample ID: 380-216807-1 MS
Matrix: Water
Analysis Batch: 231040

Client Sample ID: Ka'amilo Wells P2 (331-600-WL085)
Prep Type: Total/NA
Prep Batch: 230545

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		60.1	56.8		ng/L		95	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		60.1	57.0		ng/L		95	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		60.1	57.7		ng/L		96	70 - 130

QC Sample Results

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

Job ID: 380-216807-1
SDG: PFAS: Ka'amilo Wells P2

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

Lab Sample ID: 380-216807-1 MS

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

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 231040

Prep Batch: 230545

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Hexafluoropropylene Oxide	<2.0		60.1	58.3		ng/L		97	70 - 130
Dimer Acid (HFPO-DA/GenX)									
Perfluorobutanesulfonic acid (PFBS)	3.4		60.1	60.5		ng/L		95	70 - 130
Perfluorodecanoic acid (PFDA)	<2.0		60.1	53.9		ng/L		90	70 - 130
Perfluorododecanoic acid (PFDoA)	<2.0		60.1	58.3		ng/L		97	70 - 130
Perfluoroheptanoic acid (PFHpA)	2.3		60.1	58.6		ng/L		94	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	4.1		60.1	64.2		ng/L		100	70 - 130
Perfluorohexanoic acid (PFHxA)	4.3		60.1	63.7		ng/L		99	70 - 130
Perfluorononanoic acid (PFNA)	<2.0		60.1	58.2		ng/L		97	70 - 130
Perfluorooctanesulfonic acid (PFOS)	5.3		60.1	64.5		ng/L		99	70 - 130
Perfluorooctanoic acid (PFOA)	4.2		60.1	63.2		ng/L		98	70 - 130
Perfluoroundecanoic acid (PFUnA)	<2.0		60.1	55.3		ng/L		92	70 - 130
Perfluorobutanoic acid (PFBA)	2.1		60.1	60.4		ng/L		97	70 - 130
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		60.1	60.7		ng/L		101	70 - 130
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		60.1	61.5		ng/L		102	70 - 130
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		60.1	59.9		ng/L		100	70 - 130
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		60.1	50.8		ng/L		84	70 - 130
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<2.0		60.1	55.5		ng/L		92	70 - 130
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		60.1	55.0		ng/L		92	70 - 130
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		60.1	51.4		ng/L		86	70 - 130
Perfluoropentanoic acid (PFPeA)	4.7		60.1	58.1		ng/L		89	70 - 130
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		60.1	57.7		ng/L		95	70 - 130
Perfluoropentanesulfonic acid (PFPeS)	<2.0		60.1	55.4		ng/L		91	70 - 130

Isotope Dilution	MS MS		Limits
	%Recovery	Qualifier	
13C3 HFPO-DA	98		50 - 200
13C6 PFDA	115		50 - 200
13C5 PFHxA	103		50 - 200
13C4 PFHpA	104		50 - 200
13C8 PFOA	102		50 - 200
13C9 PFNA	109		50 - 200
13C7 PFUnA	122		50 - 200
13C2 PFDoA	123		50 - 200
13C4 PFBA	106		50 - 200
13C5 PFPeA	115		50 - 200
13C3 PFBS	98		50 - 200
13C3 PFHxS	101		50 - 200
13C8 PFOS	106		50 - 200

QC Sample Results

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

Job ID: 380-216807-1
SDG: PFAS: Ka'amilo Wells P2

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

Lab Sample ID: 380-216807-1 MS
Matrix: Water
Analysis Batch: 231040

Client Sample ID: Ka'amilo Wells P2 (331-600-WL085)
Prep Type: Total/NA
Prep Batch: 230545

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>MS MS Qualifier</i>	<i>Limits</i>
13C2-4:2-FTS	117		50 - 200
13C2-6:2-FTS	126		50 - 200
13C2-8:2-FTS	124		50 - 200

Lab Sample ID: 380-216807-1 MSD
Matrix: Water
Analysis Batch: 231040

Client Sample ID: Ka'amilo Wells P2 (331-600-WL085)
Prep Type: Total/NA
Prep Batch: 230545

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		60.1	58.4		ng/L		97	70 - 130	3	30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		60.1	59.7		ng/L		99	70 - 130	5	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		60.1	56.2		ng/L		93	70 - 130	3	30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		60.1	58.4		ng/L		97	70 - 130	0	30
Perfluorobutanesulfonic acid (PFBS)	3.4		60.1	60.0		ng/L		94	70 - 130	1	30
Perfluorodecanoic acid (PFDA)	<2.0		60.1	55.5		ng/L		92	70 - 130	3	30
Perfluorododecanoic acid (PFDoA)	<2.0		60.1	55.7		ng/L		93	70 - 130	4	30
Perfluoroheptanoic acid (PFHpA)	2.3		60.1	58.8		ng/L		94	70 - 130	0	30
Perfluorohexanesulfonic acid (PFHxS)	4.1		60.1	63.7		ng/L		99	70 - 130	1	30
Perfluorohexanoic acid (PFHxA)	4.3		60.1	65.8		ng/L		102	70 - 130	3	30
Perfluorononanoic acid (PFNA)	<2.0		60.1	57.8		ng/L		96	70 - 130	1	30
Perfluorooctanesulfonic acid (PFOS)	5.3		60.1	65.7		ng/L		101	70 - 130	2	30
Perfluorooctanoic acid (PFOA)	4.2		60.1	65.2		ng/L		101	70 - 130	3	30
Perfluoroundecanoic acid (PFUnA)	<2.0		60.1	53.4		ng/L		89	70 - 130	3	30
Perfluorobutanoic acid (PFBA)	2.1		60.1	60.7		ng/L		98	70 - 130	1	30
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		60.1	59.9		ng/L		100	70 - 130	1	30
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		60.1	58.1		ng/L		97	70 - 130	6	30
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		60.1	62.4		ng/L		104	70 - 130	4	30
Nonfluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		60.1	53.0		ng/L		88	70 - 130	4	30
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<2.0		60.1	55.5		ng/L		92	70 - 130	0	30
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		60.1	55.8		ng/L		93	70 - 130	1	30
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		60.1	57.5		ng/L		96	70 - 130	11	30
Perfluoropentanoic acid (PFPeA)	4.7		60.1	60.9		ng/L		94	70 - 130	5	30
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		60.1	58.8		ng/L		97	70 - 130	2	30
Perfluoropentanesulfonic acid (PFPeS)	<2.0		60.1	54.7		ng/L		90	70 - 130	1	30

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QC Sample Results

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

Job ID: 380-216807-1
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	88		50 - 200
13C6 PFDA	111		50 - 200
13C5 PFHxA	93		50 - 200
13C4 PFHpA	96		50 - 200
13C8 PFOA	91		50 - 200
13C9 PFNA	104		50 - 200
13C7 PFUnA	116		50 - 200
13C2 PFDoA	114		50 - 200
13C4 PFBA	99		50 - 200
13C5 PFPeA	105		50 - 200
13C3 PFBS	100		50 - 200
13C3 PFHxS	103		50 - 200
13C8 PFOS	105		50 - 200
13C2-4:2-FTS	132		50 - 200
13C2-6:2-FTS	127		50 - 200
13C2-8:2-FTS	132		50 - 200

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

Lab Sample ID: MBL 380-230553/21-A
Matrix: Water
Analysis Batch: 230734

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 230553

<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		05/30/26 09:29	06/01/26 10:04	1
Perfluorooctanesulfonic acid (PFOS)	<0.43		2.0	ng/L		05/30/26 09:29	06/01/26 10:04	1
Perfluoroundecanoic acid (PFUnA)	<0.42		2.0	ng/L		05/30/26 09:29	06/01/26 10:04	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.58		2.0	ng/L		05/30/26 09:29	06/01/26 10:04	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.42		2.0	ng/L		05/30/26 09:29	06/01/26 10:04	1
Perfluorohexanoic acid (PFHxA)	<0.46		2.0	ng/L		05/30/26 09:29	06/01/26 10:04	1
Perfluorododecanoic acid (PFDoA)	<0.54		2.0	ng/L		05/30/26 09:29	06/01/26 10:04	1
Perfluorooctanoic acid (PFOA)	<0.38		2.0	ng/L		05/30/26 09:29	06/01/26 10:04	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	ng/L		05/30/26 09:29	06/01/26 10:04	1
Perfluorohexanesulfonic acid (PFHxS)	<0.32		2.0	ng/L		05/30/26 09:29	06/01/26 10:04	1
Perfluorobutanesulfonic acid (PFBS)	<0.37		2.0	ng/L		05/30/26 09:29	06/01/26 10:04	1
Perfluoroheptanoic acid (PFHpA)	<0.39		2.0	ng/L		05/30/26 09:29	06/01/26 10:04	1
Perfluorononanoic acid (PFNA)	<0.40		2.0	ng/L		05/30/26 09:29	06/01/26 10:04	1
Perfluorotetradecanoic acid (PFTA)	<0.54		2.0	ng/L		05/30/26 09:29	06/01/26 10:04	1
Perfluorotridecanoic acid (PFTrDA)	<0.36		2.0	ng/L		05/30/26 09:29	06/01/26 10:04	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<0.30		2.0	ng/L		05/30/26 09:29	06/01/26 10:04	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<0.30		2.0	ng/L		05/30/26 09:29	06/01/26 10:04	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.60		2.0	ng/L		05/30/26 09:29	06/01/26 10:04	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	104		70 - 130			05/30/26 09:29	06/01/26 10:04	1
13C2 PFHxA	106		70 - 130			05/30/26 09:29	06/01/26 10:04	1
13C2 PFDA	102		70 - 130			05/30/26 09:29	06/01/26 10:04	1

Eurofins Pomona

QC Sample Results

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

Job ID: 380-216807-1
SDG: PFAS: Ka'amilo Wells P2

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

Lab Sample ID: MBL 380-230553/21-A
Matrix: Water
Analysis Batch: 230734

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 230553

<i>Surrogate</i>	<i>MBL</i>	<i>MBL</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C3-GenX	100	Qualifier	70 - 130	05/30/26 09:29	06/01/26 10:04	1

Lab Sample ID: LCS 380-230553/23-A
Matrix: Water
Analysis Batch: 230734

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 230553

<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)	50.0	48.0		ng/L		96		70 - 130
Perfluorooctanesulfonic acid (PFOS)	50.0	51.8		ng/L		104		70 - 130
Perfluoroundecanoic acid (PFUnA)	50.0	46.7		ng/L		93		70 - 130
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	50.0	46.0		ng/L		92		70 - 130
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	50.0	47.5		ng/L		95		70 - 130
Perfluorohexanoic acid (PFHxA)	50.0	51.0		ng/L		102		70 - 130
Perfluorododecanoic acid (PFDoA)	50.0	47.8		ng/L		96		70 - 130
Perfluorooctanoic acid (PFOA)	50.0	49.5		ng/L		99		70 - 130
Perfluorodecanoic acid (PFDA)	50.0	50.2		ng/L		100		70 - 130
Perfluorohexanesulfonic acid (PFHxS)	50.0	52.0		ng/L		104		70 - 130
Perfluorobutanesulfonic acid (PFBS)	50.0	48.8		ng/L		98		70 - 130
Perfluoroheptanoic acid (PFHpA)	50.0	51.0		ng/L		102		70 - 130
Perfluorononanoic acid (PFNA)	50.0	49.7		ng/L		99		70 - 130
Perfluorotetradecanoic acid (PFTA)	50.0	39.5		ng/L		79		70 - 130
Perfluorotridecanoic acid (PFTrDA)	50.0	48.1		ng/L		96		70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	50.0	50.7		ng/L		101		70 - 130
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	50.0	48.7		ng/L		97		70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	50.0	51.3		ng/L		103		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	110		70 - 130
13C2 PFDA	101		70 - 130
13C3-GenX	99		70 - 130

QC Sample Results

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

Job ID: 380-216807-1
SDG: PFAS: Ka'amilo Wells P2

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

Lab Sample ID: MRL 380-230553/22-A
Matrix: Water
Analysis Batch: 230734

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 230553

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	Limits
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	2.00	2.01	J	ng/L		101	50 - 150
Perfluorooctanesulfonic acid (PFOS)	2.00	2.06	J	ng/L		103	50 - 150
Perfluoroundecanoic acid (PFUnA)	2.00	2.21	J	ng/L		111	50 - 150
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.00	1.93	J	ng/L		96	50 - 150
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.00	2.02	J	ng/L		101	50 - 150
Perfluorohexanoic acid (PFHxA)	2.00	2.28	J	ng/L		114	50 - 150
Perfluorododecanoic acid (PFDoA)	2.00	2.15	J	ng/L		107	50 - 150
Perfluorooctanoic acid (PFOA)	2.00	2.08	J	ng/L		104	50 - 150
Perfluorodecanoic acid (PFDA)	2.00	2.10	J	ng/L		105	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	2.00	2.08	J	ng/L		104	50 - 150
Perfluorobutanesulfonic acid (PFBS)	2.00	2.02	J	ng/L		101	50 - 150
Perfluoroheptanoic acid (PFHpA)	2.00	2.12	J	ng/L		106	50 - 150
Perfluorononanoic acid (PFNA)	2.00	2.27	J	ng/L		113	50 - 150
Perfluorotetradecanoic acid (PFTA)	2.00	1.79	J	ng/L		89	50 - 150
Perfluorotridecanoic acid (PFTrDA)	2.00	2.09	J	ng/L		104	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	2.00	2.02	J	ng/L		101	50 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.00	1.94	J	ng/L		97	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	2.00	2.14	J	ng/L		107	50 - 150

Surrogate	MRL %Recovery	MRL Qualifier	Limits
d5-NEtFOSAA	100		70 - 130
13C2 PFHxA	112		70 - 130
13C2 PFDA	104		70 - 130
13C3-GenX	110		70 - 130

Lab Sample ID: 380-216807-1 MS
Matrix: Water
Analysis Batch: 230734

Client Sample ID: Ka'amilo Wells P2 (331-600-WL085)
Prep Type: Total/NA
Prep Batch: 230553

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	49.8		ng/L		99	70 - 130
Perfluorooctanesulfonic acid (PFOS)	5.5		50.2	55.9		ng/L		100	70 - 130
Perfluoroundecanoic acid (PFUnA)	<2.0		50.2	49.3		ng/L		98	70 - 130
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		50.2	48.6		ng/L		97	70 - 130

Eurofins Pomona

QC Association Summary

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

Job ID: 380-216807-1
SDG: PFAS: Ka'amilo Wells P2

LCMS

Prep Batch: 230545

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-216807-1	Ka'amilo Wells P2 (331-600-WL085)	Total/NA	Water	533	
380-216807-2	FB: Ka'amilo Wells P2 (331-600-WL085)	Total/NA	Water	533	
MBL 380-230545/20-A	Method Blank	Total/NA	Water	533	
LCS 380-230545/22-A	Lab Control Sample	Total/NA	Water	533	
MRL 380-230545/21-A	Lab Control Sample	Total/NA	Water	533	
380-216807-1 MS	Ka'amilo Wells P2 (331-600-WL085)	Total/NA	Water	533	
380-216807-1 MSD	Ka'amilo Wells P2 (331-600-WL085)	Total/NA	Water	533	

Prep Batch: 230553

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-216807-1	Ka'amilo Wells P2 (331-600-WL085)	Total/NA	Water	537.1 DW	
380-216807-2	FB: Ka'amilo Wells P2 (331-600-WL085)	Total/NA	Water	537.1 DW	
MBL 380-230553/21-A	Method Blank	Total/NA	Water	537.1 DW	
LCS 380-230553/23-A	Lab Control Sample	Total/NA	Water	537.1 DW	
MRL 380-230553/22-A	Lab Control Sample	Total/NA	Water	537.1 DW	
380-216807-1 MS	Ka'amilo Wells P2 (331-600-WL085)	Total/NA	Water	537.1 DW	
380-216807-1 MSD	Ka'amilo Wells P2 (331-600-WL085)	Total/NA	Water	537.1 DW	

Analysis Batch: 230734

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-216807-1	Ka'amilo Wells P2 (331-600-WL085)	Total/NA	Water	EPA 537.1 V2	230553
380-216807-2	FB: Ka'amilo Wells P2 (331-600-WL085)	Total/NA	Water	EPA 537.1 V2	230553
MBL 380-230553/21-A	Method Blank	Total/NA	Water	EPA 537.1 V2	230553
LCS 380-230553/23-A	Lab Control Sample	Total/NA	Water	EPA 537.1 V2	230553
MRL 380-230553/22-A	Lab Control Sample	Total/NA	Water	EPA 537.1 V2	230553
380-216807-1 MS	Ka'amilo Wells P2 (331-600-WL085)	Total/NA	Water	EPA 537.1 V2	230553
380-216807-1 MSD	Ka'amilo Wells P2 (331-600-WL085)	Total/NA	Water	EPA 537.1 V2	230553

Analysis Batch: 231040

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-216807-1	Ka'amilo Wells P2 (331-600-WL085)	Total/NA	Water	533	230545
380-216807-2	FB: Ka'amilo Wells P2 (331-600-WL085)	Total/NA	Water	533	230545
MBL 380-230545/20-A	Method Blank	Total/NA	Water	533	230545
LCS 380-230545/22-A	Lab Control Sample	Total/NA	Water	533	230545
MRL 380-230545/21-A	Lab Control Sample	Total/NA	Water	533	230545
380-216807-1 MS	Ka'amilo Wells P2 (331-600-WL085)	Total/NA	Water	533	230545
380-216807-1 MSD	Ka'amilo Wells P2 (331-600-WL085)	Total/NA	Water	533	230545

Lab Chronicle

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

Job ID: 380-216807-1
 SDG: PFAS: Ka'amilo Wells P2

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

Lab Sample ID: 380-216807-1

Date Collected: 05/26/26 12:42

Matrix: Water

Date Received: 05/29/26 10:03

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			230545	XTD8	EA POM	05/30/26 06:17
Total/NA	Analysis	533		1	231040	M7ML	EA POM	06/02/26 13:03
Total/NA	Prep	537.1 DW			230553	E9PK	EA POM	05/30/26 09:29
Total/NA	Analysis	EPA 537.1 V2		1	230734	M7ML	EA POM	06/01/26 10:34

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

Lab Sample ID: 380-216807-2

Date Collected: 05/26/26 12:42

Matrix: Water

Date Received: 05/29/26 10:03

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			230545	XTD8	EA POM	05/30/26 06:17
Total/NA	Analysis	533		1	231040	M7ML	EA POM	06/02/26 16:29
Total/NA	Prep	537.1 DW			230553	E9PK	EA POM	05/30/26 09:29
Total/NA	Analysis	EPA 537.1 V2		1	230734	M7ML	EA POM	06/01/26 13:09

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: 380-216807-1
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
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* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

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

Job ID: 380-216807-1
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: 380-216807-1
SDG: PFAS: Ka'amilo Wells P2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	PWSID Number
380-216807-1	Ka'amilo Wells P2 (331-600-WL085)	Water	05/26/26 12:42	05/29/26 10:03	HI0000331
380-216807-2	FB: Ka'amilo Wells P2 (331-600-WL085)	Water	05/26/26 12:42	05/29/26 10:03	HI0000331

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Monrovia, CA (Suite 100)

750 Royal Oaks Drive Suite 100

Monrovia, CA 91016

Phone (626) 386-1100

Chain of Custody Record



Env
Air



Client Information		Sampler: bailey		Lab PM: Lopez, Maria		Carrier Tracking No(s):		COC No: 380-216807 COC					
Client Contact: kirk iwamoto		Phone: +1 808 748 5840		E-Mail: Maria.Lopez@et.euronisus.com		State of Origin:		Page:					
Company: City & County of Honolulu		PWSID:		Analysis Requested						Job #:			
Address: 630 South Beretania Street, Chemistry Lab		Due Date Requested:		Field Filled Sample (Yes or No) <input type="checkbox"/> Perform MS/MSD (Yes or No) <input type="checkbox"/> SUBCONTRACT - 625 PAH Physls LL (EAL) - TICs 8016B_GRO_LL - (MOD) GRO 8016B_DRO_LL_CS - HPL Range: C10-C24/C24-C30C8-C18 625.2_PREC - (MOD) 626plus PLUS TICs 637.1_DW_PREC - 637.1 Full List 533 - All Analytes						Preservation Codes:			
City: Honolulu		TAT Requested (days): RUSH								M - Hexane		N - None	
State, Zip: HI, 96843		Compliance Project: Δ No								O - AsNaO2		P - Na2O4S	
Phone: 808-748-5840 (tel)		PO #: C20525101 exp 05312023								Q - Na2SO3		R - Na2SO3	
Email: kiwamoto@hbws.org		WO #:								S - H2SO4		T - TSP Dodecahydrate	
Project Name: RED-HILL/HBWS sites Event Desc: RUSH Weekly Red Hill		Project #: 38001111		U - Acetone		V - MCAA		W - pH 4-5					
Site:		SSOW#:		Y - Trizma		Z - other (specify)		Other:					
Sample Identification		Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=on-site)		Total Number of containers			
						Preservation Code:				Special Instructions/Note:			
Ka'amilo Wells P2 (331-600-WL085)		26-May-2026		1242		G		Water					
FB: Ka'amilo Wells P2 (331-600-WL085)		26-May-2026		1242				Water		3 3			
										1 1			
Possible Hazard Identification		<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)									
Deliverable Requested: I, II, III, IV, Other (specify)				<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months									
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment: FedEx: 9723 0837 5555							
Relinquished by:		Date/Time: 27 May 2026 1400		Company: HBWS		Received by: Maria Lopez		Date/Time: 5/29/26 1003		Company: HBWS			
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:			
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: (631A) 4.6 + 0.0 - 4.6 ggl-frozen									

Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-216807-1
SDG Number: PFAS: Ka'amilo Wells P2

Login Number: 216807

List Number: 1

Creator: Avila, Ivan

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).	N/A	
Samples do not require splitting or compositing.	True	
Container provided by EEA	True	

