

ANALYTICAL REPORT

PREPARED FOR

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JOB DESCRIPTION

SPECIAL
PFAS - Kaamilo Wells P1/P2

JOB NUMBER

380-149692-1

Eurofins Eaton Analytical Pomona

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Eaton Analytical, 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: SPECIAL

Job ID: 380-149692-1
SDG: PFAS - Kaamilo Wells P1/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: SPECIAL

Job ID: 380-149692-1

Job ID: 380-149692-1

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Job Narrative 380-149692-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 5/8/2025 9:43 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 5.6°C.

PFAS

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: SPECIAL

Job ID: 380-149692-1
SDG: PFAS - Kaamilo Wells P1/P2

Client Sample ID: Kaamilo Wells P1

Lab Sample ID: 380-149692-1

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid (PFBS)	2.4		2.0	ng/L	1		533	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	2.9		2.0	ng/L	1		533	Total/NA
Perfluorohexanoic acid (PFHxA)	3.0		2.0	ng/L	1		533	Total/NA
Perfluorooctanesulfonic acid (PFOS)	3.6		2.0	ng/L	1		533	Total/NA
Perfluorooctanoic acid (PFOA)	3.2		2.0	ng/L	1		533	Total/NA
Perfluoropentanoic acid (PFPeA)	3.2		2.0	ng/L	1		533	Total/NA
Perfluorooctanesulfonic acid (PFOS)	3.9		2.0	ng/L	1		537.1	Total/NA
Perfluorohexanoic acid (PFHxA)	3.1		2.0	ng/L	1		537.1	Total/NA
Perfluorooctanoic acid (PFOA)	3.2		2.0	ng/L	1		537.1	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	3.1		2.0	ng/L	1		537.1	Total/NA
Perfluorobutanesulfonic acid (PFBS)	2.6		2.0	ng/L	1		537.1	Total/NA
4-PFAS Hazard Index	0.29			NONE	1		None	Total/NA

Client Sample ID: Kaamilo Wells P2

Lab Sample ID: 380-149692-2

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid (PFBS)	2.1		2.0	ng/L	1		533	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	2.8		2.0	ng/L	1		533	Total/NA
Perfluorohexanoic acid (PFHxA)	2.5		2.0	ng/L	1		533	Total/NA
Perfluorooctanesulfonic acid (PFOS)	3.3		2.0	ng/L	1		533	Total/NA
Perfluorooctanoic acid (PFOA)	2.5		2.0	ng/L	1		533	Total/NA
Perfluoropentanoic acid (PFPeA)	2.5		2.0	ng/L	1		533	Total/NA
Perfluorooctanesulfonic acid (PFOS)	3.2		2.0	ng/L	1		537.1	Total/NA
Perfluorohexanoic acid (PFHxA)	2.5		2.0	ng/L	1		537.1	Total/NA
Perfluorooctanoic acid (PFOA)	2.5		2.0	ng/L	1		537.1	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	2.9		2.0	ng/L	1		537.1	Total/NA
Perfluorobutanesulfonic acid (PFBS)	2.2		2.0	ng/L	1		537.1	Total/NA
4-PFAS Hazard Index	0.28			NONE	1		None	Total/NA

Client Sample ID: FB: Kaamilo Wells P1

Lab Sample ID: 380-149692-3

No Detections.

Client Sample ID: FB: Kaamilo Wells P2

Lab Sample ID: 380-149692-4

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: SPECIAL

Job ID: 380-149692-1
SDG: PFAS - Kaamilo Wells P1/P2

Client Sample ID: Kaamilo Wells P1

Lab Sample ID: 380-149692-1

Date Collected: 05/06/25 10:37

Matrix: Drinking Water

Date Received: 05/08/25 09:43

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid (11CI-PF3OUdS)	<2.0		2.0	ng/L		05/09/25 16:24	05/10/25 18:01	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9CI-PF3ONS)	<2.0		2.0	ng/L		05/09/25 16:24	05/10/25 18:01	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		05/09/25 16:24	05/10/25 18:01	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<2.0		2.0	ng/L		05/09/25 16:24	05/10/25 18:01	1
Perfluorobutanesulfonic acid (PFBS)	2.4		2.0	ng/L		05/09/25 16:24	05/10/25 18:01	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		05/09/25 16:24	05/10/25 18:01	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		05/09/25 16:24	05/10/25 18:01	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		05/09/25 16:24	05/10/25 18:01	1
Perfluorohexanesulfonic acid (PFHxS)	2.9		2.0	ng/L		05/09/25 16:24	05/10/25 18:01	1
Perfluorohexanoic acid (PFHxA)	3.0		2.0	ng/L		05/09/25 16:24	05/10/25 18:01	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		05/09/25 16:24	05/10/25 18:01	1
Perfluorooctanesulfonic acid (PFOS)	3.6		2.0	ng/L		05/09/25 16:24	05/10/25 18:01	1
Perfluorooctanoic acid (PFOA)	3.2		2.0	ng/L		05/09/25 16:24	05/10/25 18:01	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		05/09/25 16:24	05/10/25 18:01	1
Perfluorobutanoic acid (PFBA)	<2.0		2.0	ng/L		05/09/25 16:24	05/10/25 18:01	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0	ng/L		05/09/25 16:24	05/10/25 18:01	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0	ng/L		05/09/25 16:24	05/10/25 18:01	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0	ng/L		05/09/25 16:24	05/10/25 18:01	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		2.0	ng/L		05/09/25 16:24	05/10/25 18:01	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<2.0		2.0	ng/L		05/09/25 16:24	05/10/25 18:01	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		05/09/25 16:24	05/10/25 18:01	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		05/09/25 16:24	05/10/25 18:01	1
Perfluoropentanoic acid (PFPeA)	3.2		2.0	ng/L		05/09/25 16:24	05/10/25 18:01	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		05/09/25 16:24	05/10/25 18:01	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		05/09/25 16:24	05/10/25 18:01	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	100		50 - 200	05/09/25 16:24	05/10/25 18:01	1
13C6 PFDA	104		50 - 200	05/09/25 16:24	05/10/25 18:01	1
13C5 PFHxA	102		50 - 200	05/09/25 16:24	05/10/25 18:01	1
13C4 PFHpA	108		50 - 200	05/09/25 16:24	05/10/25 18:01	1
13C8 PFOA	103		50 - 200	05/09/25 16:24	05/10/25 18:01	1
13C9 PFNA	106		50 - 200	05/09/25 16:24	05/10/25 18:01	1
13C7 PFUnA	109		50 - 200	05/09/25 16:24	05/10/25 18:01	1
13C2 PFDoA	104		50 - 200	05/09/25 16:24	05/10/25 18:01	1
13C4 PFBA	104		50 - 200	05/09/25 16:24	05/10/25 18:01	1
13C5 PFPeA	105		50 - 200	05/09/25 16:24	05/10/25 18:01	1
13C3 PFBS	105		50 - 200	05/09/25 16:24	05/10/25 18:01	1

Eurofins Eaton Analytical Pomona

Client Sample Results

Client: City & County of Honolulu
Project/Site: SPECIAL

Job ID: 380-149692-1
SDG: PFAS - Kaamilo Wells P1/P2

Client Sample ID: Kaamilo Wells P1

Lab Sample ID: 380-149692-1

Date Collected: 05/06/25 10:37

Matrix: Drinking Water

Date Received: 05/08/25 09:43

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 PFHxS	108		50 - 200	05/09/25 16:24	05/10/25 18:01	1
13C8 PFOS	111		50 - 200	05/09/25 16:24	05/10/25 18:01	1
13C2-4:2-FTS	129		50 - 200	05/09/25 16:24	05/10/25 18:01	1
13C2-6:2-FTS	121		50 - 200	05/09/25 16:24	05/10/25 18:01	1
13C2-8:2-FTS	111		50 - 200	05/09/25 16:24	05/10/25 18:01	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		05/09/25 01:53	05/09/25 15:59	1
Perfluorooctanesulfonic acid (PFOS)	3.9		2.0	ng/L		05/09/25 01:53	05/09/25 15:59	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		05/09/25 01:53	05/09/25 15:59	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		2.0	ng/L		05/09/25 01:53	05/09/25 15:59	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		2.0	ng/L		05/09/25 01:53	05/09/25 15:59	1
Perfluorohexanoic acid (PFHxA)	3.1		2.0	ng/L		05/09/25 01:53	05/09/25 15:59	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		05/09/25 01:53	05/09/25 15:59	1
Perfluorooctanoic acid (PFOA)	3.2		2.0	ng/L		05/09/25 01:53	05/09/25 15:59	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		05/09/25 01:53	05/09/25 15:59	1
Perfluorohexanesulfonic acid (PFHxS)	3.1		2.0	ng/L		05/09/25 01:53	05/09/25 15:59	1
Perfluorobutanesulfonic acid (PFBS)	2.6		2.0	ng/L		05/09/25 01:53	05/09/25 15:59	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		05/09/25 01:53	05/09/25 15:59	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		05/09/25 01:53	05/09/25 15:59	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0	ng/L		05/09/25 01:53	05/09/25 15:59	1
Perfluorotridecanoic acid (PFTrDA)	<2.0		2.0	ng/L		05/09/25 01:53	05/09/25 15:59	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		05/09/25 01:53	05/09/25 15:59	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		05/09/25 01:53	05/09/25 15:59	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		05/09/25 01:53	05/09/25 15:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	106		70 - 130	05/09/25 01:53	05/09/25 15:59	1
13C2 PFHxA	109		70 - 130	05/09/25 01:53	05/09/25 15:59	1
13C2 PFDA	104		70 - 130	05/09/25 01:53	05/09/25 15:59	1
13C3-GenX	104		70 - 130	05/09/25 01:53	05/09/25 15:59	1

Method: EPA None - PFAS Hazard Index

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4-PFAS Hazard Index	0.29			NONE			05/10/25 18:01	1

Client Sample Results

Client: City & County of Honolulu
Project/Site: SPECIAL

Job ID: 380-149692-1
SDG: PFAS - Kaamilo Wells P1/P2

Client Sample ID: Kaamilo Wells P2

Lab Sample ID: 380-149692-2

Date Collected: 05/06/25 10:23

Matrix: Drinking Water

Date Received: 05/08/25 09:43

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid (11CI-PF3OUdS)	<2.0		2.0	ng/L		05/09/25 16:24	05/10/25 18:11	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9CI-PF3ONS)	<2.0		2.0	ng/L		05/09/25 16:24	05/10/25 18:11	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		05/09/25 16:24	05/10/25 18:11	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<2.0		2.0	ng/L		05/09/25 16:24	05/10/25 18:11	1
Perfluorobutanesulfonic acid (PFBS)	2.1		2.0	ng/L		05/09/25 16:24	05/10/25 18:11	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		05/09/25 16:24	05/10/25 18:11	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		05/09/25 16:24	05/10/25 18:11	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		05/09/25 16:24	05/10/25 18:11	1
Perfluorohexanesulfonic acid (PFHxS)	2.8		2.0	ng/L		05/09/25 16:24	05/10/25 18:11	1
Perfluorohexanoic acid (PFHxA)	2.5		2.0	ng/L		05/09/25 16:24	05/10/25 18:11	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		05/09/25 16:24	05/10/25 18:11	1
Perfluorooctanesulfonic acid (PFOS)	3.3		2.0	ng/L		05/09/25 16:24	05/10/25 18:11	1
Perfluorooctanoic acid (PFOA)	2.5		2.0	ng/L		05/09/25 16:24	05/10/25 18:11	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		05/09/25 16:24	05/10/25 18:11	1
Perfluorobutanoic acid (PFBA)	<2.0		2.0	ng/L		05/09/25 16:24	05/10/25 18:11	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0	ng/L		05/09/25 16:24	05/10/25 18:11	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0	ng/L		05/09/25 16:24	05/10/25 18:11	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0	ng/L		05/09/25 16:24	05/10/25 18:11	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		2.0	ng/L		05/09/25 16:24	05/10/25 18:11	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<2.0		2.0	ng/L		05/09/25 16:24	05/10/25 18:11	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		05/09/25 16:24	05/10/25 18:11	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		05/09/25 16:24	05/10/25 18:11	1
Perfluoropentanoic acid (PFPeA)	2.5		2.0	ng/L		05/09/25 16:24	05/10/25 18:11	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		05/09/25 16:24	05/10/25 18:11	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		05/09/25 16:24	05/10/25 18:11	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	95		50 - 200	05/09/25 16:24	05/10/25 18:11	1
13C6 PFDA	104		50 - 200	05/09/25 16:24	05/10/25 18:11	1
13C5 PFHxA	101		50 - 200	05/09/25 16:24	05/10/25 18:11	1
13C4 PFHpA	106		50 - 200	05/09/25 16:24	05/10/25 18:11	1
13C8 PFOA	105		50 - 200	05/09/25 16:24	05/10/25 18:11	1
13C9 PFNA	103		50 - 200	05/09/25 16:24	05/10/25 18:11	1
13C7 PFUnA	105		50 - 200	05/09/25 16:24	05/10/25 18:11	1
13C2 PFDoA	105		50 - 200	05/09/25 16:24	05/10/25 18:11	1
13C4 PFBA	108		50 - 200	05/09/25 16:24	05/10/25 18:11	1
13C5 PFPeA	112		50 - 200	05/09/25 16:24	05/10/25 18:11	1
13C3 PFBS	106		50 - 200	05/09/25 16:24	05/10/25 18:11	1

Eurofins Eaton Analytical Pomona

Client Sample Results

Client: City & County of Honolulu
Project/Site: SPECIAL

Job ID: 380-149692-1
SDG: PFAS - Kaamilo Wells P1/P2

Client Sample ID: Kaamilo Wells P2

Lab Sample ID: 380-149692-2

Date Collected: 05/06/25 10:23

Matrix: Drinking Water

Date Received: 05/08/25 09:43

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 PFHxS	107		50 - 200	05/09/25 16:24	05/10/25 18:11	1
13C8 PFOS	110		50 - 200	05/09/25 16:24	05/10/25 18:11	1
13C2-4:2-FTS	131		50 - 200	05/09/25 16:24	05/10/25 18:11	1
13C2-6:2-FTS	121		50 - 200	05/09/25 16:24	05/10/25 18:11	1
13C2-8:2-FTS	112		50 - 200	05/09/25 16:24	05/10/25 18:11	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		05/09/25 01:53	05/09/25 19:44	1
Perfluorooctanesulfonic acid (PFOS)	3.2		2.0	ng/L		05/09/25 01:53	05/09/25 19:44	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		05/09/25 01:53	05/09/25 19:44	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		2.0	ng/L		05/09/25 01:53	05/09/25 19:44	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		2.0	ng/L		05/09/25 01:53	05/09/25 19:44	1
Perfluorohexanoic acid (PFHxA)	2.5		2.0	ng/L		05/09/25 01:53	05/09/25 19:44	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		05/09/25 01:53	05/09/25 19:44	1
Perfluorooctanoic acid (PFOA)	2.5		2.0	ng/L		05/09/25 01:53	05/09/25 19:44	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		05/09/25 01:53	05/09/25 19:44	1
Perfluorohexanesulfonic acid (PFHxS)	2.9		2.0	ng/L		05/09/25 01:53	05/09/25 19:44	1
Perfluorobutanesulfonic acid (PFBS)	2.2		2.0	ng/L		05/09/25 01:53	05/09/25 19:44	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		05/09/25 01:53	05/09/25 19:44	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		05/09/25 01:53	05/09/25 19:44	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0	ng/L		05/09/25 01:53	05/09/25 19:44	1
Perfluorotridecanoic acid (PFTrDA)	<2.0		2.0	ng/L		05/09/25 01:53	05/09/25 19:44	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		05/09/25 01:53	05/09/25 19:44	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		05/09/25 01:53	05/09/25 19:44	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		05/09/25 01:53	05/09/25 19:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	105		70 - 130	05/09/25 01:53	05/09/25 19:44	1
13C2 PFHxA	110		70 - 130	05/09/25 01:53	05/09/25 19:44	1
13C2 PFDA	103		70 - 130	05/09/25 01:53	05/09/25 19:44	1
13C3-GenX	100		70 - 130	05/09/25 01:53	05/09/25 19:44	1

Method: EPA None - PFAS Hazard Index

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4-PFAS Hazard Index	0.28			NONE			05/10/25 18:11	1

Client Sample Results

Client: City & County of Honolulu
Project/Site: SPECIAL

Job ID: 380-149692-1
SDG: PFAS - Kaamilo Wells P1/P2

Client Sample ID: FB: Kaamilo Wells P1

Lab Sample ID: 380-149692-3

Date Collected: 05/06/25 10:37

Matrix: Drinking Water

Date Received: 05/08/25 09:43

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid (11CI-PF3OUdS)	<2.0		2.0	ng/L		05/09/25 16:24	05/10/25 18:20	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9CI-PF3ONS)	<2.0		2.0	ng/L		05/09/25 16:24	05/10/25 18:20	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		05/09/25 16:24	05/10/25 18:20	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<2.0		2.0	ng/L		05/09/25 16:24	05/10/25 18:20	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		05/09/25 16:24	05/10/25 18:20	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		05/09/25 16:24	05/10/25 18:20	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		05/09/25 16:24	05/10/25 18:20	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		05/09/25 16:24	05/10/25 18:20	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		05/09/25 16:24	05/10/25 18:20	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		05/09/25 16:24	05/10/25 18:20	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		05/09/25 16:24	05/10/25 18:20	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		05/09/25 16:24	05/10/25 18:20	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		05/09/25 16:24	05/10/25 18:20	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		05/09/25 16:24	05/10/25 18:20	1
Perfluorobutanoic acid (PFBA)	<2.0		2.0	ng/L		05/09/25 16:24	05/10/25 18:20	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0	ng/L		05/09/25 16:24	05/10/25 18:20	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0	ng/L		05/09/25 16:24	05/10/25 18:20	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0	ng/L		05/09/25 16:24	05/10/25 18:20	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		2.0	ng/L		05/09/25 16:24	05/10/25 18:20	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<2.0		2.0	ng/L		05/09/25 16:24	05/10/25 18:20	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		05/09/25 16:24	05/10/25 18:20	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		05/09/25 16:24	05/10/25 18:20	1
Perfluoropentanoic acid (PFPeA)	<2.0		2.0	ng/L		05/09/25 16:24	05/10/25 18:20	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		05/09/25 16:24	05/10/25 18:20	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		05/09/25 16:24	05/10/25 18:20	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	102		50 - 200	05/09/25 16:24	05/10/25 18:20	1
13C6 PFDA	119		50 - 200	05/09/25 16:24	05/10/25 18:20	1
13C5 PFHxA	113		50 - 200	05/09/25 16:24	05/10/25 18:20	1
13C4 PFHpA	116		50 - 200	05/09/25 16:24	05/10/25 18:20	1
13C8 PFOA	119		50 - 200	05/09/25 16:24	05/10/25 18:20	1
13C9 PFNA	117		50 - 200	05/09/25 16:24	05/10/25 18:20	1
13C7 PFUnA	117		50 - 200	05/09/25 16:24	05/10/25 18:20	1
13C2 PFDoA	115		50 - 200	05/09/25 16:24	05/10/25 18:20	1
13C4 PFBA	114		50 - 200	05/09/25 16:24	05/10/25 18:20	1
13C5 PFPeA	118		50 - 200	05/09/25 16:24	05/10/25 18:20	1
13C3 PFBS	111		50 - 200	05/09/25 16:24	05/10/25 18:20	1
13C3 PFHxS	113		50 - 200	05/09/25 16:24	05/10/25 18:20	1
13C8 PFOS	114		50 - 200	05/09/25 16:24	05/10/25 18:20	1

Eurofins Eaton Analytical Pomona

Client Sample Results

Client: City & County of Honolulu
Project/Site: SPECIAL

Job ID: 380-149692-1
SDG: PFAS - Kaamilo Wells P1/P2

Client Sample ID: FB: Kaamilo Wells P1

Lab Sample ID: 380-149692-3

Date Collected: 05/06/25 10:37

Matrix: Drinking Water

Date Received: 05/08/25 09:43

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2-4:2-FTS	135		50 - 200	05/09/25 16:24	05/10/25 18:20	1
13C2-6:2-FTS	122		50 - 200	05/09/25 16:24	05/10/25 18:20	1
13C2-8:2-FTS	117		50 - 200	05/09/25 16:24	05/10/25 18:20	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		05/09/25 01:53	05/09/25 19:55	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		05/09/25 01:53	05/09/25 19:55	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		05/09/25 01:53	05/09/25 19:55	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		2.0	ng/L		05/09/25 01:53	05/09/25 19:55	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		2.0	ng/L		05/09/25 01:53	05/09/25 19:55	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		05/09/25 01:53	05/09/25 19:55	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		05/09/25 01:53	05/09/25 19:55	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		05/09/25 01:53	05/09/25 19:55	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		05/09/25 01:53	05/09/25 19:55	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		05/09/25 01:53	05/09/25 19:55	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		05/09/25 01:53	05/09/25 19:55	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		05/09/25 01:53	05/09/25 19:55	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		05/09/25 01:53	05/09/25 19:55	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0	ng/L		05/09/25 01:53	05/09/25 19:55	1
Perfluorotridecanoic acid (PFTrDA)	<2.0		2.0	ng/L		05/09/25 01:53	05/09/25 19:55	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		05/09/25 01:53	05/09/25 19:55	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		05/09/25 01:53	05/09/25 19:55	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		05/09/25 01:53	05/09/25 19:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	103		70 - 130			05/09/25 01:53	05/09/25 19:55	1
13C2 PFHxA	109		70 - 130			05/09/25 01:53	05/09/25 19:55	1
13C2 PFDA	104		70 - 130			05/09/25 01:53	05/09/25 19:55	1
13C3-GenX	103		70 - 130			05/09/25 01:53	05/09/25 19:55	1

Client Sample ID: FB: Kaamilo Wells P2

Lab Sample ID: 380-149692-4

Date Collected: 05/06/25 10:23

Matrix: Drinking Water

Date Received: 05/08/25 09:43

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		05/09/25 16:24	05/10/25 18:30	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		05/09/25 16:24	05/10/25 18:30	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		05/09/25 16:24	05/10/25 18:30	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<2.0		2.0	ng/L		05/09/25 16:24	05/10/25 18:30	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		05/09/25 16:24	05/10/25 18:30	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		05/09/25 16:24	05/10/25 18:30	1

Eurofins Eaton Analytical Pomona

Client Sample Results

Client: City & County of Honolulu
Project/Site: SPECIAL

Job ID: 380-149692-1
SDG: PFAS - Kaamilo Wells P1/P2

Client Sample ID: FB: Kaamilo Wells P2

Lab Sample ID: 380-149692-4

Date Collected: 05/06/25 10:23

Matrix: Drinking Water

Date Received: 05/08/25 09:43

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		05/09/25 16:24	05/10/25 18:30	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		05/09/25 16:24	05/10/25 18:30	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		05/09/25 16:24	05/10/25 18:30	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		05/09/25 16:24	05/10/25 18:30	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		05/09/25 16:24	05/10/25 18:30	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		05/09/25 16:24	05/10/25 18:30	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		05/09/25 16:24	05/10/25 18:30	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		05/09/25 16:24	05/10/25 18:30	1
Perfluorobutanoic acid (PFBA)	<2.0		2.0	ng/L		05/09/25 16:24	05/10/25 18:30	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0	ng/L		05/09/25 16:24	05/10/25 18:30	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0	ng/L		05/09/25 16:24	05/10/25 18:30	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0	ng/L		05/09/25 16:24	05/10/25 18:30	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		2.0	ng/L		05/09/25 16:24	05/10/25 18:30	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<2.0		2.0	ng/L		05/09/25 16:24	05/10/25 18:30	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		05/09/25 16:24	05/10/25 18:30	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		05/09/25 16:24	05/10/25 18:30	1
Perfluoropentanoic acid (PFPeA)	<2.0		2.0	ng/L		05/09/25 16:24	05/10/25 18:30	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		05/09/25 16:24	05/10/25 18:30	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		05/09/25 16:24	05/10/25 18:30	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	101		50 - 200	05/09/25 16:24	05/10/25 18:30	1
13C6 PFDA	110		50 - 200	05/09/25 16:24	05/10/25 18:30	1
13C5 PFHxA	104		50 - 200	05/09/25 16:24	05/10/25 18:30	1
13C4 PFHpA	113		50 - 200	05/09/25 16:24	05/10/25 18:30	1
13C8 PFOA	108		50 - 200	05/09/25 16:24	05/10/25 18:30	1
13C9 PFNA	111		50 - 200	05/09/25 16:24	05/10/25 18:30	1
13C7 PFUnA	110		50 - 200	05/09/25 16:24	05/10/25 18:30	1
13C2 PFDoA	107		50 - 200	05/09/25 16:24	05/10/25 18:30	1
13C4 PFBA	108		50 - 200	05/09/25 16:24	05/10/25 18:30	1
13C5 PFPeA	110		50 - 200	05/09/25 16:24	05/10/25 18:30	1
13C3 PFBS	105		50 - 200	05/09/25 16:24	05/10/25 18:30	1
13C3 PFHxS	108		50 - 200	05/09/25 16:24	05/10/25 18:30	1
13C8 PFOS	113		50 - 200	05/09/25 16:24	05/10/25 18:30	1
13C2-4:2-FTS	130		50 - 200	05/09/25 16:24	05/10/25 18:30	1
13C2-6:2-FTS	122		50 - 200	05/09/25 16:24	05/10/25 18:30	1
13C2-8:2-FTS	112		50 - 200	05/09/25 16:24	05/10/25 18:30	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		05/09/25 01:53	05/09/25 20:05	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		05/09/25 01:53	05/09/25 20:05	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		05/09/25 01:53	05/09/25 20:05	1

Eurofins Eaton Analytical Pomona

Client Sample Results

Client: City & County of Honolulu
Project/Site: SPECIAL

Job ID: 380-149692-1
SDG: PFAS - Kaamilo Wells P1/P2

Client Sample ID: FB: Kaamilo Wells P2

Lab Sample ID: 380-149692-4

Date Collected: 05/06/25 10:23

Matrix: Drinking Water

Date Received: 05/08/25 09:43

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		2.0	ng/L		05/09/25 01:53	05/09/25 20:05	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		2.0	ng/L		05/09/25 01:53	05/09/25 20:05	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		05/09/25 01:53	05/09/25 20:05	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		05/09/25 01:53	05/09/25 20:05	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		05/09/25 01:53	05/09/25 20:05	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		05/09/25 01:53	05/09/25 20:05	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		05/09/25 01:53	05/09/25 20:05	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		05/09/25 01:53	05/09/25 20:05	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		05/09/25 01:53	05/09/25 20:05	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		05/09/25 01:53	05/09/25 20:05	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0	ng/L		05/09/25 01:53	05/09/25 20:05	1
Perfluorotridecanoic acid (PFTrDA)	<2.0		2.0	ng/L		05/09/25 01:53	05/09/25 20:05	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		05/09/25 01:53	05/09/25 20:05	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		05/09/25 01:53	05/09/25 20:05	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		05/09/25 01:53	05/09/25 20:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	105		70 - 130			05/09/25 01:53	05/09/25 20:05	1
13C2 PFHxA	112		70 - 130			05/09/25 01:53	05/09/25 20:05	1
13C2 PFDA	113		70 - 130			05/09/25 01:53	05/09/25 20:05	1
13C3-GenX	104		70 - 130			05/09/25 01:53	05/09/25 20:05	1

Surrogate Summary

Client: City & County of Honolulu
Project/Site: SPECIAL

Job ID: 380-149692-1
SDG: PFAS - Kaamilo Wells P1/P2

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

Matrix: Drinking Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		d5NEFOS (70-130)	PFHxA (70-130)	PFDA (70-130)	GenX (70-130)
380-149692-1	Kaamilo Wells P1	106	109	104	104
380-149692-1 MS	Kaamilo Wells P1	101	108	102	101
380-149692-1 MSD	Kaamilo Wells P1	92	107	100	104
380-149692-2	Kaamilo Wells P2	105	110	103	100
380-149692-3	FB: Kaamilo Wells P1	103	109	104	103
380-149692-4	FB: Kaamilo Wells P2	105	112	113	104
LCS 380-151526/22-A	Lab Control Sample	97	106	101	100
MBL 380-151526/20-A	Method Blank	98	104	100	98
MRL 380-151526/21-A	Lab Control Sample	94	104	101	93

Surrogate Legend

d5NEFOS = d5-NEtFOSAA

PFHxA = 13C2 PFHxA

PFDA = 13C2 PFDA

GenX = 13C3-GenX

Isotope Dilution Summary

Client: City & County of Honolulu
Project/Site: SPECIAL

Job ID: 380-149692-1
SDG: PFAS - Kaamilo Wells P1/P2

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

Matrix: Drinking 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)
380-149276-B-1-A MS	Matrix Spike	105	113	107	114	113	115	113	111
380-149276-C-1-A MSD	Matrix Spike Duplicate	109	110	109	113	109	115	114	113
380-149692-1	Kaamilo Wells P1	100	104	102	108	103	106	109	104
380-149692-2	Kaamilo Wells P2	95	104	101	106	105	103	105	105
380-149692-3	FB: Kaamilo Wells P1	102	119	113	116	119	117	117	115
380-149692-4	FB: Kaamilo Wells P2	101	110	104	113	108	111	110	107
LCS 380-151671/22-A	Lab Control Sample	110	112	109	109	110	113	114	114
MBL 380-151671/20-A	Method Blank	106	111	112	113	113	113	112	109
MRL 380-151671/21-A	Lab Control Sample	104	111	110	112	111	113	109	108

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	PFBA (50-200)	PFPeA (50-200)	C3PFBS (50-200)	C3PFHS (50-200)	C8PFOS (50-200)	42FTS (50-200)	62FTS (50-200)	82FTS (50-200)
380-149276-B-1-A MS	Matrix Spike	109	113	110	109	110	124	118	112
380-149276-C-1-A MSD	Matrix Spike Duplicate	109	110	111	111	112	125	121	117
380-149692-1	Kaamilo Wells P1	104	105	105	108	111	129	121	111
380-149692-2	Kaamilo Wells P2	108	112	106	107	110	131	121	112
380-149692-3	FB: Kaamilo Wells P1	114	118	111	113	114	135	122	117
380-149692-4	FB: Kaamilo Wells P2	108	110	105	108	113	130	122	112
LCS 380-151671/22-A	Lab Control Sample	113	114	111	112	116	129	122	119
MBL 380-151671/20-A	Method Blank	110	112	110	109	114	131	124	112
MRL 380-151671/21-A	Lab Control Sample	113	112	109	113	113	130	119	112

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: SPECIAL

Job ID: 380-149692-1
SDG: PFAS - Kaamilo Wells P1/P2

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

Lab Sample ID: MBL 380-151671/20-A

Matrix: Drinking Water

Analysis Batch: 151720

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 151671

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS)	<0.30		2.0	ng/L		05/09/25 16:24	05/10/25 14:40	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9CI-PF3ONS)	<0.30		2.0	ng/L		05/09/25 16:24	05/10/25 14:40	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.60		2.0	ng/L		05/09/25 16:24	05/10/25 14:40	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.0		2.0	ng/L		05/09/25 16:24	05/10/25 14:40	1
Perfluorobutanesulfonic acid (PFBS)	<0.37		2.0	ng/L		05/09/25 16:24	05/10/25 14:40	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	ng/L		05/09/25 16:24	05/10/25 14:40	1
Perfluorododecanoic acid (PFDoA)	<0.54		2.0	ng/L		05/09/25 16:24	05/10/25 14:40	1
Perfluoroheptanoic acid (PFHpA)	<0.39		2.0	ng/L		05/09/25 16:24	05/10/25 14:40	1
Perfluorohexanesulfonic acid (PFHxS)	<0.32		2.0	ng/L		05/09/25 16:24	05/10/25 14:40	1
Perfluorohexanoic acid (PFHxA)	<0.46		2.0	ng/L		05/09/25 16:24	05/10/25 14:40	1
Perfluorononanoic acid (PFNA)	<0.40		2.0	ng/L		05/09/25 16:24	05/10/25 14:40	1
Perfluorooctanesulfonic acid (PFOS)	<0.43		2.0	ng/L		05/09/25 16:24	05/10/25 14:40	1
Perfluorooctanoic acid (PFOA)	<0.38		2.0	ng/L		05/09/25 16:24	05/10/25 14:40	1
Perfluoroundecanoic acid (PFUnA)	<0.42		2.0	ng/L		05/09/25 16:24	05/10/25 14:40	1
Perfluorobutanoic acid (PFBA)	<0.69		2.0	ng/L		05/09/25 16:24	05/10/25 14:40	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<0.38		2.0	ng/L		05/09/25 16:24	05/10/25 14:40	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<0.37		2.0	ng/L		05/09/25 16:24	05/10/25 14:40	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<0.48		2.0	ng/L		05/09/25 16:24	05/10/25 14:40	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.47		2.0	ng/L		05/09/25 16:24	05/10/25 14:40	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<0.25		2.0	ng/L		05/09/25 16:24	05/10/25 14:40	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.46		2.0	ng/L		05/09/25 16:24	05/10/25 14:40	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.15		2.0	ng/L		05/09/25 16:24	05/10/25 14:40	1
Perfluoropentanoic acid (PFPeA)	<0.38		2.0	ng/L		05/09/25 16:24	05/10/25 14:40	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.36		2.0	ng/L		05/09/25 16:24	05/10/25 14:40	1
Perfluoropentanesulfonic acid (PFPeS)	<0.39		2.0	ng/L		05/09/25 16:24	05/10/25 14:40	1

Isotope Dilution	MBL %Recovery	MBL Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	106		50 - 200	05/09/25 16:24	05/10/25 14:40	1
13C6 PFDA	111		50 - 200	05/09/25 16:24	05/10/25 14:40	1
13C5 PFHxA	112		50 - 200	05/09/25 16:24	05/10/25 14:40	1
13C4 PFHpA	113		50 - 200	05/09/25 16:24	05/10/25 14:40	1
13C8 PFOA	113		50 - 200	05/09/25 16:24	05/10/25 14:40	1
13C9 PFNA	113		50 - 200	05/09/25 16:24	05/10/25 14:40	1
13C7 PFUnA	112		50 - 200	05/09/25 16:24	05/10/25 14:40	1
13C2 PFDoA	109		50 - 200	05/09/25 16:24	05/10/25 14:40	1
13C4 PFBA	110		50 - 200	05/09/25 16:24	05/10/25 14:40	1
13C5 PFPeA	112		50 - 200	05/09/25 16:24	05/10/25 14:40	1
13C3 PFBS	110		50 - 200	05/09/25 16:24	05/10/25 14:40	1
13C3 PFHxS	109		50 - 200	05/09/25 16:24	05/10/25 14:40	1

Eurofins Eaton Analytical Pomona

QC Sample Results

Client: City & County of Honolulu
Project/Site: SPECIAL

Job ID: 380-149692-1
SDG: PFAS - Kaamilo Wells P1/P2

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

Lab Sample ID: MBL 380-151671/20-A

Matrix: Drinking Water

Analysis Batch: 151720

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 151671

Isotope Dilution	MBL %Recovery	MBL Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOS	114		50 - 200	05/09/25 16:24	05/10/25 14:40	1
13C2-4:2-FTS	131		50 - 200	05/09/25 16:24	05/10/25 14:40	1
13C2-6:2-FTS	124		50 - 200	05/09/25 16:24	05/10/25 14:40	1
13C2-8:2-FTS	112		50 - 200	05/09/25 16:24	05/10/25 14:40	1

Lab Sample ID: LCS 380-151671/22-A

Matrix: Drinking Water

Analysis Batch: 151720

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 151671

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
11-Chloroeicosfluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	120	103		ng/L		85	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	120	103		ng/L		86	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	120	114		ng/L		95	70 - 130
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	120	108		ng/L		90	70 - 130
Perfluorobutanesulfonic acid (PFBS)	120	111		ng/L		92	70 - 130
Perfluorodecanoic acid (PFDA)	120	115		ng/L		96	70 - 130
Perfluorododecanoic acid (PFDoA)	120	113		ng/L		94	70 - 130
Perfluoroheptanoic acid (PFHpA)	120	116		ng/L		96	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	120	113		ng/L		94	70 - 130
Perfluorohexanoic acid (PFHxA)	120	113		ng/L		94	70 - 130
Perfluorononanoic acid (PFNA)	120	112		ng/L		93	70 - 130
Perfluorooctanesulfonic acid (PFOS)	120	108		ng/L		90	70 - 130
Perfluorooctanoic acid (PFOA)	120	116		ng/L		97	70 - 130
Perfluoroundecanoic acid (PFUnA)	120	113		ng/L		94	70 - 130
Perfluorobutanoic acid (PFBA)	120	113		ng/L		94	70 - 130
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	120	112		ng/L		93	70 - 130
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	120	115		ng/L		96	70 - 130
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	120	112		ng/L		93	70 - 130
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	120	116		ng/L		96	70 - 130
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	120	108		ng/L		90	70 - 130
Perfluoro-3-methoxypropanoic acid (PFMPA)	120	112		ng/L		93	70 - 130
Perfluoro-4-methoxybutanoic acid (PFMBA)	120	111		ng/L		92	70 - 130
Perfluoropentanoic acid (PFPeA)	120	114		ng/L		94	70 - 130
Perfluoroheptanesulfonic acid (PFHpS)	120	113		ng/L		94	70 - 130

Eurofins Eaton Analytical Pomona

QC Sample Results

Client: City & County of Honolulu
Project/Site: SPECIAL

Job ID: 380-149692-1
SDG: PFAS - Kaamilo Wells P1/P2

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

Lab Sample ID: LCS 380-151671/22-A

Matrix: Drinking Water

Analysis Batch: 151720

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 151671

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoropentanesulfonic acid (PFPeS)	120	112		ng/L		93	70 - 130
	LCS	LCS					
Isotope Dilution	%Recovery	Qualifier	Limits				
13C3 HFPO-DA	110		50 - 200				
13C6 PFDA	112		50 - 200				
13C5 PFHxA	109		50 - 200				
13C4 PFHpA	109		50 - 200				
13C8 PFOA	110		50 - 200				
13C9 PFNA	113		50 - 200				
13C7 PFUnA	114		50 - 200				
13C2 PFDoA	114		50 - 200				
13C4 PFBA	113		50 - 200				
13C5 PFPeA	114		50 - 200				
13C3 PFBS	111		50 - 200				
13C3 PFHxS	112		50 - 200				
13C8 PFOS	116		50 - 200				
13C2-4:2-FTS	129		50 - 200				
13C2-6:2-FTS	122		50 - 200				
13C2-8:2-FTS	119		50 - 200				

Lab Sample ID: MRL 380-151671/21-A

Matrix: Drinking Water

Analysis Batch: 151720

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 151671

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
11-Chloroeicosfluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.00	1.99	J	ng/L		99	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.00	1.73	J	ng/L		87	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	2.00	2.02	J	ng/L		101	50 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	2.00	1.96	J	ng/L		98	50 - 150
Perfluorobutanesulfonic acid (PFBS)	2.00	2.14	J	ng/L		107	50 - 150
Perfluorodecanoic acid (PFDA)	2.00	2.08	J	ng/L		104	50 - 150
Perfluorododecanoic acid (PFDoA)	2.00	2.06	J	ng/L		103	50 - 150
Perfluoroheptanoic acid (PFHpA)	2.00	2.06	J	ng/L		103	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	2.00	1.99	J	ng/L		100	50 - 150
Perfluorohexanoic acid (PFHxA)	2.00	2.03	J	ng/L		102	50 - 150
Perfluorononanoic acid (PFNA)	2.00	2.07	J	ng/L		103	50 - 150
Perfluorooctanesulfonic acid (PFOS)	2.00	2.13	J	ng/L		107	50 - 150
Perfluorooctanoic acid (PFOA)	2.00	2.07	J	ng/L		104	50 - 150
Perfluoroundecanoic acid (PFUnA)	2.00	2.13	J	ng/L		106	50 - 150
Perfluorobutanoic acid (PFBA)	2.00	2.22	J	ng/L		111	50 - 150

Eurofins Eaton Analytical Pomona

QC Sample Results

Client: City & County of Honolulu
Project/Site: SPECIAL

Job ID: 380-149692-1
SDG: PFAS - Kaamilo Wells P1/P2

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

Lab Sample ID: MRL 380-151671/21-A

Matrix: Drinking Water

Analysis Batch: 151720

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 151671

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	2.00	2.18	J	ng/L		109	50 - 150
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	2.00	2.11	J	ng/L		105	50 - 150
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	2.00	2.39	J	ng/L		119	50 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	2.00	1.92	J	ng/L		96	50 - 150
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	2.00	1.79	J	ng/L		90	50 - 150
Perfluoro-3-methoxypropanoic acid (PFMPA)	2.00	1.84	J	ng/L		92	50 - 150
Perfluoro-4-methoxybutanoic acid (PFMBA)	2.00	1.94	J	ng/L		97	50 - 150
Perfluoropentanoic acid (PFPeA)	2.00	2.01	J	ng/L		101	50 - 150
Perfluoroheptanesulfonic acid (PFHpS)	2.00	1.90	J	ng/L		95	50 - 150
Perfluoropentanesulfonic acid (PFPeS)	2.00	1.92	J	ng/L		96	50 - 150

Isotope Dilution	MRL %Recovery	MRL Qualifier	MRL Limits
13C3 HFPO-DA	104		50 - 200
13C6 PFDA	111		50 - 200
13C5 PFHxA	110		50 - 200
13C4 PFHpA	112		50 - 200
13C8 PFOA	111		50 - 200
13C9 PFNA	113		50 - 200
13C7 PFUnA	109		50 - 200
13C2 PFDoA	108		50 - 200
13C4 PFBA	113		50 - 200
13C5 PFPeA	112		50 - 200
13C3 PFBS	109		50 - 200
13C3 PFHxS	113		50 - 200
13C8 PFOS	113		50 - 200
13C2-4:2-FTS	130		50 - 200
13C2-6:2-FTS	119		50 - 200
13C2-8:2-FTS	112		50 - 200

Lab Sample ID: 380-149276-B-1-A MS

Matrix: Drinking Water

Analysis Batch: 151720

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 151671

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	54.4		ng/L		90	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		60.1	54.2		ng/L		90	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		60.1	58.9		ng/L		98	70 - 130

Eurofins Eaton Analytical Pomona

QC Sample Results

Client: City & County of Honolulu
Project/Site: SPECIAL

Job ID: 380-149692-1
SDG: PFAS - Kaamilo Wells P1/P2

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

Lab Sample ID: 380-149276-B-1-A MS

Matrix: Drinking Water

Analysis Batch: 151720

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 151671

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Hexafluoropropylene Oxide	<2.0		60.1	57.9		ng/L		96	70 - 130
Dimer Acid (HFPO-DA)									
Perfluorobutanesulfonic acid (PFBS)	<2.0		60.1	60.6		ng/L		100	70 - 130
Perfluorodecanoic acid (PFDA)	<2.0		60.1	60.0		ng/L		100	70 - 130
Perfluorododecanoic acid (PFDoA)	<2.0		60.1	59.6		ng/L		99	70 - 130
Perfluoroheptanoic acid (PFHpA)	<2.0		60.1	57.2		ng/L		95	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	<2.0		60.1	59.2		ng/L		96	70 - 130
Perfluorohexanoic acid (PFHxA)	<2.0		60.1	58.7		ng/L		96	70 - 130
Perfluorononanoic acid (PFNA)	<2.0		60.1	58.1		ng/L		97	70 - 130
Perfluorooctanesulfonic acid (PFOS)	<2.0		60.1	59.2		ng/L		98	70 - 130
Perfluorooctanoic acid (PFOA)	<2.0		60.1	58.8		ng/L		96	70 - 130
Perfluoroundecanoic acid (PFUnA)	<2.0		60.1	60.0		ng/L		100	70 - 130
Perfluorobutanoic acid (PFBA)	<2.0		60.1	62.8		ng/L		104	70 - 130
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		60.1	59.1		ng/L		98	70 - 130
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		60.1	59.6		ng/L		99	70 - 130
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		60.1	60.4		ng/L		100	70 - 130
Nonafluoro-3,6-dioxahexanoic acid (NFDHA)	<2.0		60.1	53.6		ng/L		89	70 - 130
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<2.0		60.1	54.8		ng/L		91	70 - 130
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		60.1	62.0		ng/L		103	70 - 130
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		60.1	60.3		ng/L		100	70 - 130
Perfluoropentanoic acid (PFPeA)	<2.0		60.1	60.3		ng/L		99	70 - 130
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		60.1	60.6		ng/L		101	70 - 130
Perfluoropentanesulfonic acid (PFPeS)	<2.0		60.1	59.1		ng/L		98	70 - 130

Isotope Dilution	MS %Recovery	MS Qualifier	Limits
13C3 HFPO-DA	105		50 - 200
13C6 PFDA	113		50 - 200
13C5 PFHxA	107		50 - 200
13C4 PFHpA	114		50 - 200
13C8 PFOA	113		50 - 200
13C9 PFNA	115		50 - 200
13C7 PFUnA	113		50 - 200
13C2 PFDoA	111		50 - 200
13C4 PFBA	109		50 - 200
13C5 PFPeA	113		50 - 200
13C3 PFBS	110		50 - 200
13C3 PFHxS	109		50 - 200
13C8 PFOS	110		50 - 200

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QC Sample Results

Client: City & County of Honolulu
Project/Site: SPECIAL

Job ID: 380-149692-1
SDG: PFAS - Kaamilo Wells P1/P2

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

Lab Sample ID: 380-149276-B-1-A MS

Matrix: Drinking Water

Analysis Batch: 151720

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 151671

Isotope Dilution	MS %Recovery	MS Qualifier	Limits
13C2-4:2-FTS	124		50 - 200
13C2-6:2-FTS	118		50 - 200
13C2-8:2-FTS	112		50 - 200

Lab Sample ID: 380-149276-C-1-A MSD

Matrix: Drinking Water

Analysis Batch: 151720

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 151671

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		60.1	55.8		ng/L		93	70 - 130	3	30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	<2.0		60.1	53.6		ng/L		89	70 - 130	1	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		60.1	57.6		ng/L		96	70 - 130	2	30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<2.0		60.1	55.6		ng/L		92	70 - 130	4	30
Perfluorobutanesulfonic acid (PFBS)	<2.0		60.1	59.3		ng/L		98	70 - 130	2	30
Perfluorodecanoic acid (PFDA)	<2.0		60.1	60.9		ng/L		101	70 - 130	2	30
Perfluorododecanoic acid (PFDoA)	<2.0		60.1	56.7		ng/L		94	70 - 130	5	30
Perfluoroheptanoic acid (PFHpA)	<2.0		60.1	58.1		ng/L		97	70 - 130	2	30
Perfluorohexanesulfonic acid (PFHxS)	<2.0		60.1	59.1		ng/L		96	70 - 130	0	30
Perfluorohexanoic acid (PFHxA)	<2.0		60.1	58.5		ng/L		96	70 - 130	0	30
Perfluorononanoic acid (PFNA)	<2.0		60.1	57.8		ng/L		96	70 - 130	1	30
Perfluorooctanesulfonic acid (PFOS)	<2.0		60.1	58.1		ng/L		97	70 - 130	2	30
Perfluorooctanoic acid (PFOA)	<2.0		60.1	60.5		ng/L		99	70 - 130	3	30
Perfluoroundecanoic acid (PFUnA)	<2.0		60.1	59.5		ng/L		99	70 - 130	1	30
Perfluorobutanoic acid (PFBA)	<2.0		60.1	60.8		ng/L		101	70 - 130	3	30
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		60.1	58.0		ng/L		96	70 - 130	2	30
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		60.1	64.7		ng/L		108	70 - 130	8	30
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		60.1	61.4		ng/L		102	70 - 130	2	30
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		60.1	61.6		ng/L		103	70 - 130	14	30
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEA)	<2.0		60.1	54.5		ng/L		91	70 - 130	1	30
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		60.1	56.6		ng/L		94	70 - 130	9	30
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		60.1	59.1		ng/L		98	70 - 130	2	30
Perfluoropentanoic acid (PFPeA)	<2.0		60.1	58.4		ng/L		95	70 - 130	3	30
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		60.1	58.8		ng/L		98	70 - 130	3	30
Perfluoropentanesulfonic acid (PFPeS)	<2.0		60.1	57.2		ng/L		95	70 - 130	3	30

Eurofins Eaton Analytical Pomona

QC Sample Results

Client: City & County of Honolulu
Project/Site: SPECIAL

Job ID: 380-149692-1
SDG: PFAS - Kaamilo Wells P1/P2

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

Isotope Dilution	MSD %Recovery	MSD Qualifier	Limits
13C3 HFPO-DA	109		50 - 200
13C6 PFDA	110		50 - 200
13C5 PFHxA	109		50 - 200
13C4 PFHpA	113		50 - 200
13C8 PFOA	109		50 - 200
13C9 PFNA	115		50 - 200
13C7 PFUnA	114		50 - 200
13C2 PFDoA	113		50 - 200
13C4 PFBA	109		50 - 200
13C5 PFPeA	110		50 - 200
13C3 PFBS	111		50 - 200
13C3 PFHxS	111		50 - 200
13C8 PFOS	112		50 - 200
13C2-4:2-FTS	125		50 - 200
13C2-6:2-FTS	121		50 - 200
13C2-8:2-FTS	117		50 - 200

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

Lab Sample ID: MBL 380-151526/20-A
Matrix: Drinking Water
Analysis Batch: 151623

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 151526

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<1.0		2.0	ng/L		05/09/25 01:53	05/09/25 15:26	1
Perfluorooctanesulfonic acid (PFOS)	<0.43		2.0	ng/L		05/09/25 01:53	05/09/25 15:26	1
Perfluoroundecanoic acid (PFUnA)	<0.42		2.0	ng/L		05/09/25 01:53	05/09/25 15:26	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.58		2.0	ng/L		05/09/25 01:53	05/09/25 15:26	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.42		2.0	ng/L		05/09/25 01:53	05/09/25 15:26	1
Perfluorohexanoic acid (PFHxA)	<0.46		2.0	ng/L		05/09/25 01:53	05/09/25 15:26	1
Perfluorododecanoic acid (PFDoA)	<0.54		2.0	ng/L		05/09/25 01:53	05/09/25 15:26	1
Perfluorooctanoic acid (PFOA)	<0.38		2.0	ng/L		05/09/25 01:53	05/09/25 15:26	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	ng/L		05/09/25 01:53	05/09/25 15:26	1
Perfluorohexanesulfonic acid (PFHxS)	<0.32		2.0	ng/L		05/09/25 01:53	05/09/25 15:26	1
Perfluorobutanesulfonic acid (PFBS)	<0.37		2.0	ng/L		05/09/25 01:53	05/09/25 15:26	1
Perfluoroheptanoic acid (PFHpA)	<0.39		2.0	ng/L		05/09/25 01:53	05/09/25 15:26	1
Perfluorononanoic acid (PFNA)	<0.40		2.0	ng/L		05/09/25 01:53	05/09/25 15:26	1
Perfluorotetradecanoic acid (PFTA)	<0.54		2.0	ng/L		05/09/25 01:53	05/09/25 15:26	1
Perfluorotridecanoic acid (PFTrDA)	<0.36		2.0	ng/L		05/09/25 01:53	05/09/25 15:26	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<0.30		2.0	ng/L		05/09/25 01:53	05/09/25 15:26	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<0.30		2.0	ng/L		05/09/25 01:53	05/09/25 15:26	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.60		2.0	ng/L		05/09/25 01:53	05/09/25 15:26	1
Surrogate	MBL %Recovery	MBL Qualifier	Limits			Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	98		70 - 130			05/09/25 01:53	05/09/25 15:26	1
13C2 PFHxA	104		70 - 130			05/09/25 01:53	05/09/25 15:26	1
13C2 PFDA	100		70 - 130			05/09/25 01:53	05/09/25 15:26	1

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QC Sample Results

Client: City & County of Honolulu
Project/Site: SPECIAL

Job ID: 380-149692-1
SDG: PFAS - Kaamilo Wells P1/P2

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

Lab Sample ID: MBL 380-151526/20-A
Matrix: Drinking Water
Analysis Batch: 151623

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 151526

Surrogate	MBL %Recovery	MBL Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3-GenX	98		70 - 130	05/09/25 01:53	05/09/25 15:26	1

Lab Sample ID: LCS 380-151526/22-A
Matrix: Drinking Water
Analysis Batch: 151623

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 151526

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Hexafluoropropylene Oxide	50.0	44.0		ng/L		88	70 - 130
Dimer Acid (HFPO-DA/GenX)							
Perfluorooctanesulfonic acid (PFOS)	50.0	44.7		ng/L		89	70 - 130
Perfluoroundecanoic acid (PFUnA)	50.0	44.4		ng/L		89	70 - 130
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	50.0	45.1		ng/L		90	70 - 130
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	50.0	44.6		ng/L		89	70 - 130
Perfluorohexanoic acid (PFHxA)	50.0	47.4		ng/L		95	70 - 130
Perfluorododecanoic acid (PFDoA)	50.0	43.5		ng/L		87	70 - 130
Perfluorooctanoic acid (PFOA)	50.0	46.5		ng/L		93	70 - 130
Perfluorodecanoic acid (PFDA)	50.0	44.4		ng/L		89	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	50.0	45.0		ng/L		90	70 - 130
Perfluorobutanesulfonic acid (PFBS)	50.0	47.1		ng/L		94	70 - 130
Perfluoroheptanoic acid (PFHpA)	50.0	44.0		ng/L		88	70 - 130
Perfluorononanoic acid (PFNA)	50.0	45.6		ng/L		91	70 - 130
Perfluorotetradecanoic acid (PFTA)	50.0	40.9		ng/L		82	70 - 130
Perfluorotridecanoic acid (PFTrDA)	50.0	48.9		ng/L		98	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	50.0	45.0		ng/L		90	70 - 130
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	50.0	46.7		ng/L		93	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	50.0	46.4		ng/L		93	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
d5-NEtFOSAA	97		70 - 130
13C2 PFHxA	106		70 - 130
13C2 PFDA	101		70 - 130
13C3-GenX	100		70 - 130

QC Sample Results

Client: City & County of Honolulu
Project/Site: SPECIAL

Job ID: 380-149692-1
SDG: PFAS - Kaamilo Wells P1/P2

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

Lab Sample ID: MRL 380-151526/21-A

Matrix: Drinking Water

Analysis Batch: 151623

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 151526

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	2.00	1.84	J	ng/L		92	50 - 150
Perfluorooctanesulfonic acid (PFOS)	2.00	2.00	J	ng/L		100	50 - 150
Perfluoroundecanoic acid (PFUnA)	2.00	1.86	J	ng/L		93	50 - 150
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.00	1.81	J	ng/L		90	50 - 150
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.00	1.88	J	ng/L		94	50 - 150
Perfluorohexanoic acid (PFHxA)	2.00	1.86	J	ng/L		93	50 - 150
Perfluorododecanoic acid (PFDoA)	2.00	1.86	J	ng/L		93	50 - 150
Perfluorooctanoic acid (PFOA)	2.00	1.95	J	ng/L		97	50 - 150
Perfluorodecanoic acid (PFDA)	2.00	1.88	J	ng/L		94	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	2.00	2.08	J	ng/L		104	50 - 150
Perfluorobutanesulfonic acid (PFBS)	2.00	2.00	J	ng/L		100	50 - 150
Perfluoroheptanoic acid (PFHpA)	2.00	1.95	J	ng/L		98	50 - 150
Perfluorononanoic acid (PFNA)	2.00	1.96	J	ng/L		98	50 - 150
Perfluorotetradecanoic acid (PFTA)	2.00	1.78	J	ng/L		89	50 - 150
Perfluorotridecanoic acid (PFTrDA)	2.00	2.07	J	ng/L		104	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	2.00	2.00	J	ng/L		100	50 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.00	2.12	J	ng/L		106	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	2.00	1.92	J	ng/L		96	50 - 150

Surrogate	MRL %Recovery	MRL Qualifier	Limits
d5-NEtFOSAA	94		70 - 130
13C2 PFHxA	104		70 - 130
13C2 PFDA	101		70 - 130
13C3-GenX	93		70 - 130

Lab Sample ID: 380-149692-1 MS

Matrix: Drinking Water

Analysis Batch: 151623

Client Sample ID: Kaamilo Wells P1

Prep Type: Total/NA

Prep Batch: 151526

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		50.2	44.4		ng/L		88	70 - 130
Perfluorooctanesulfonic acid (PFOS)	3.9		50.2	50.0		ng/L		92	70 - 130
Perfluoroundecanoic acid (PFUnA)	<2.0		50.2	43.2		ng/L		86	70 - 130
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		50.2	46.2		ng/L		92	70 - 130

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QC Sample Results

Client: City & County of Honolulu
Project/Site: SPECIAL

Job ID: 380-149692-1
SDG: PFAS - Kaamilo Wells P1/P2

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

Lab Sample ID: 380-149692-1 MS

Matrix: Drinking Water

Analysis Batch: 151623

Client Sample ID: Kaamilo Wells P1

Prep Type: Total/NA

Prep Batch: 151526

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		50.2	45.7		ng/L		91	70 - 130
Perfluorohexanoic acid (PFHxA)	3.1		50.2	48.9		ng/L		91	70 - 130
Perfluorododecanoic acid (PFDoA)	<2.0		50.2	42.9		ng/L		85	70 - 130
Perfluorooctanoic acid (PFOA)	3.2		50.2	49.2		ng/L		92	70 - 130
Perfluorodecanoic acid (PFDA)	<2.0		50.2	43.6		ng/L		87	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	3.1		50.2	48.7		ng/L		91	70 - 130
Perfluorobutanesulfonic acid (PFBS)	2.6		50.2	49.9		ng/L		94	70 - 130
Perfluoroheptanoic acid (PFHpA)	<2.0		50.2	46.6		ng/L		90	70 - 130
Perfluorononanoic acid (PFNA)	<2.0		50.2	45.7		ng/L		91	70 - 130
Perfluorotetradecanoic acid (PFTA)	<2.0		50.2	40.0		ng/L		80	70 - 130
Perfluorotridecanoic acid (PFTrDA)	<2.0		50.2	47.5		ng/L		95	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		50.2	45.6		ng/L		91	70 - 130
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		50.2	46.5		ng/L		93	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		50.2	47.1		ng/L		94	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
d5-NEtFOSAA	101		70 - 130
13C2 PFHxA	108		70 - 130
13C2 PFDA	102		70 - 130
13C3-GenX	101		70 - 130

Lab Sample ID: 380-149692-1 MSD

Matrix: Drinking Water

Analysis Batch: 151623

Client Sample ID: Kaamilo Wells P1

Prep Type: Total/NA

Prep Batch: 151526

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		50.1	43.3		ng/L		86	70 - 130	3	30
Perfluorooctanesulfonic acid (PFOS)	3.9		50.1	50.0		ng/L		92	70 - 130	0	30
Perfluoroundecanoic acid (PFUnA)	<2.0		50.1	42.2		ng/L		84	70 - 130	2	30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		50.1	47.3		ng/L		94	70 - 130	2	30
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		50.1	46.1		ng/L		92	70 - 130	1	30
Perfluorohexanoic acid (PFHxA)	3.1		50.1	46.4		ng/L		87	70 - 130	5	30
Perfluorododecanoic acid (PFDoA)	<2.0		50.1	41.6		ng/L		83	70 - 130	3	30
Perfluorooctanoic acid (PFOA)	3.2		50.1	47.7		ng/L		89	70 - 130	3	30
Perfluorodecanoic acid (PFDA)	<2.0		50.1	43.0		ng/L		86	70 - 130	2	30

Eurofins Eaton Analytical Pomona

QC Sample Results

Client: City & County of Honolulu
Project/Site: SPECIAL

Job ID: 380-149692-1
SDG: PFAS - Kaamilo Wells P1/P2

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

Lab Sample ID: 380-149692-1 MSD

Matrix: Drinking Water

Analysis Batch: 151623

Client Sample ID: Kaamilo Wells P1

Prep Type: Total/NA

Prep Batch: 151526

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorohexanesulfonic acid (PFHxS)	3.1		50.1	48.5		ng/L		91	70 - 130	0	30
Perfluorobutanesulfonic acid (PFBS)	2.6		50.1	50.6		ng/L		96	70 - 130	1	30
Perfluoroheptanoic acid (PFHpA)	<2.0		50.1	44.3		ng/L		85	70 - 130	5	30
Perfluorononanoic acid (PFNA)	<2.0		50.1	45.4		ng/L		91	70 - 130	1	30
Perfluorotetradecanoic acid (PFTA)	<2.0		50.1	39.1		ng/L		78	70 - 130	2	30
Perfluorotridecanoic acid (PFTTrDA)	<2.0		50.1	47.3		ng/L		94	70 - 130	0	30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		50.1	46.2		ng/L		92	70 - 130	1	30
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		50.1	46.8		ng/L		94	70 - 130	1	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		50.1	46.5		ng/L		93	70 - 130	1	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
d5-NEtFOSAA	92		70 - 130
13C2 PFHxA	107		70 - 130
13C2 PFDA	100		70 - 130
13C3-GenX	104		70 - 130

QC Association Summary

Client: City & County of Honolulu
Project/Site: SPECIAL

Job ID: 380-149692-1
SDG: PFAS - Kaamilo Wells P1/P2

LCMS

Prep Batch: 151526

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-149692-1	Kaamilo Wells P1	Total/NA	Drinking Water	537.1 DW	
380-149692-2	Kaamilo Wells P2	Total/NA	Drinking Water	537.1 DW	
380-149692-3	FB: Kaamilo Wells P1	Total/NA	Drinking Water	537.1 DW	
380-149692-4	FB: Kaamilo Wells P2	Total/NA	Drinking Water	537.1 DW	
MBL 380-151526/20-A	Method Blank	Total/NA	Drinking Water	537.1 DW	
LCS 380-151526/22-A	Lab Control Sample	Total/NA	Drinking Water	537.1 DW	
MRL 380-151526/21-A	Lab Control Sample	Total/NA	Drinking Water	537.1 DW	
380-149692-1 MS	Kaamilo Wells P1	Total/NA	Drinking Water	537.1 DW	
380-149692-1 MSD	Kaamilo Wells P1	Total/NA	Drinking Water	537.1 DW	

Analysis Batch: 151623

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-149692-1	Kaamilo Wells P1	Total/NA	Drinking Water	537.1	151526
380-149692-2	Kaamilo Wells P2	Total/NA	Drinking Water	537.1	151526
380-149692-3	FB: Kaamilo Wells P1	Total/NA	Drinking Water	537.1	151526
380-149692-4	FB: Kaamilo Wells P2	Total/NA	Drinking Water	537.1	151526
MBL 380-151526/20-A	Method Blank	Total/NA	Drinking Water	537.1	151526
LCS 380-151526/22-A	Lab Control Sample	Total/NA	Drinking Water	537.1	151526
MRL 380-151526/21-A	Lab Control Sample	Total/NA	Drinking Water	537.1	151526
380-149692-1 MS	Kaamilo Wells P1	Total/NA	Drinking Water	537.1	151526
380-149692-1 MSD	Kaamilo Wells P1	Total/NA	Drinking Water	537.1	151526

Prep Batch: 151671

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-149692-1	Kaamilo Wells P1	Total/NA	Drinking Water	533	
380-149692-2	Kaamilo Wells P2	Total/NA	Drinking Water	533	
380-149692-3	FB: Kaamilo Wells P1	Total/NA	Drinking Water	533	
380-149692-4	FB: Kaamilo Wells P2	Total/NA	Drinking Water	533	
MBL 380-151671/20-A	Method Blank	Total/NA	Drinking Water	533	
LCS 380-151671/22-A	Lab Control Sample	Total/NA	Drinking Water	533	
MRL 380-151671/21-A	Lab Control Sample	Total/NA	Drinking Water	533	
380-149276-B-1-A MS	Matrix Spike	Total/NA	Drinking Water	533	
380-149276-C-1-A MSD	Matrix Spike Duplicate	Total/NA	Drinking Water	533	

Analysis Batch: 151720

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-149692-1	Kaamilo Wells P1	Total/NA	Drinking Water	533	151671
380-149692-2	Kaamilo Wells P2	Total/NA	Drinking Water	533	151671
380-149692-3	FB: Kaamilo Wells P1	Total/NA	Drinking Water	533	151671
380-149692-4	FB: Kaamilo Wells P2	Total/NA	Drinking Water	533	151671
MBL 380-151671/20-A	Method Blank	Total/NA	Drinking Water	533	151671
LCS 380-151671/22-A	Lab Control Sample	Total/NA	Drinking Water	533	151671
MRL 380-151671/21-A	Lab Control Sample	Total/NA	Drinking Water	533	151671
380-149276-B-1-A MS	Matrix Spike	Total/NA	Drinking Water	533	151671
380-149276-C-1-A MSD	Matrix Spike Duplicate	Total/NA	Drinking Water	533	151671

Analysis Batch: 151748

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-149692-1	Kaamilo Wells P1	Total/NA	Drinking Water	None	
380-149692-2	Kaamilo Wells P2	Total/NA	Drinking Water	None	

Eurofins Eaton Analytical Pomona

Lab Chronicle

Client: City & County of Honolulu
Project/Site: SPECIAL

Job ID: 380-149692-1
SDG: PFAS - Kaamilo Wells P1/P2

Client Sample ID: Kaamilo Wells P1

Date Collected: 05/06/25 10:37

Date Received: 05/08/25 09:43

Lab Sample ID: 380-149692-1

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			151671	N8NE	EA POM	05/09/25 16:24
Total/NA	Analysis	533		1	151720	M7ML	EA POM	05/10/25 18:01
Total/NA	Prep	537.1 DW			151526	G9MN	EA POM	05/09/25 01:53
Total/NA	Analysis	537.1		1	151623	Y5FM	EA POM	05/09/25 15:59
Total/NA	Analysis	None		1	151748	Y7BM	EA POM	05/10/25 18:01

Client Sample ID: Kaamilo Wells P2

Date Collected: 05/06/25 10:23

Date Received: 05/08/25 09:43

Lab Sample ID: 380-149692-2

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			151671	N8NE	EA POM	05/09/25 16:24
Total/NA	Analysis	533		1	151720	M7ML	EA POM	05/10/25 18:11
Total/NA	Prep	537.1 DW			151526	G9MN	EA POM	05/09/25 01:53
Total/NA	Analysis	537.1		1	151623	Y5FM	EA POM	05/09/25 19:44
Total/NA	Analysis	None		1	151748	Y7BM	EA POM	05/10/25 18:11

Client Sample ID: FB: Kaamilo Wells P1

Date Collected: 05/06/25 10:37

Date Received: 05/08/25 09:43

Lab Sample ID: 380-149692-3

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			151671	N8NE	EA POM	05/09/25 16:24
Total/NA	Analysis	533		1	151720	M7ML	EA POM	05/10/25 18:20
Total/NA	Prep	537.1 DW			151526	G9MN	EA POM	05/09/25 01:53
Total/NA	Analysis	537.1		1	151623	Y5FM	EA POM	05/09/25 19:55

Client Sample ID: FB: Kaamilo Wells P2

Date Collected: 05/06/25 10:23

Date Received: 05/08/25 09:43

Lab Sample ID: 380-149692-4

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			151671	N8NE	EA POM	05/09/25 16:24
Total/NA	Analysis	533		1	151720	M7ML	EA POM	05/10/25 18:30
Total/NA	Prep	537.1 DW			151526	G9MN	EA POM	05/09/25 01:53
Total/NA	Analysis	537.1		1	151623	Y5FM	EA POM	05/09/25 20:05

Laboratory References:

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

Accreditation/Certification Summary

Client: City & County of Honolulu
Project/Site: SPECIAL

Job ID: 380-149692-1
SDG: PFAS - Kaamilo Wells P1/P2

Laboratory: Eurofins Eaton Analytical Pomona

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Hawaii	State	CA00006	01-31-26
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
None		Drinking Water	4-PFAS Hazard Index

Method Summary

Client: City & County of Honolulu
Project/Site: SPECIAL

Job ID: 380-149692-1
SDG: PFAS - Kaamilo Wells P1/P2

Method	Method Description	Protocol	Laboratory
533	Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water	EPA	EA POM
537.1	Perfluorinated Alkyl Acids (LC/MS)	EPA	EA POM
None	PFAS Hazard Index	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 Eaton Analytical Pomona, 941 Corporate Center Drive, Pomona, CA 91768-2642, TEL (626)386-1100

Sample Summary

Client: City & County of Honolulu
Project/Site: SPECIAL

Job ID: 380-149692-1
SDG: PFAS - Kaamilo Wells P1/P2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
380-149692-1	Kaamilo Wells P1	Drinking Water	05/06/25 10:37	05/08/25 09:43
380-149692-2	Kaamilo Wells P2	Drinking Water	05/06/25 10:23	05/08/25 09:43
380-149692-3	FB: Kaamilo Wells P1	Drinking Water	05/06/25 10:37	05/08/25 09:43
380-149692-4	FB: Kaamilo Wells P2	Drinking Water	05/06/25 10:23	05/08/25 09:43

Rec. By
Gina S.B.
9:43
630A 1.5+0.0
1.5L
GEL FROZEN

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

SHIP DATE: 07MAY25
ACTWGT 56.00 LB
CAD: 258050552/INET4535

BILL RECIPIENT

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

POMONA CA 91768

(626) 386-1100
INV
PO:

REF

DEPT:



58CJ31630D/C6C4

2 of 3

THU - 08 MAY 10:30A
PRIORITY OVERNIGHT

MPS# 8810 9110 7604

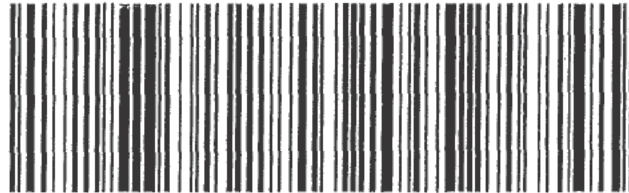
Mstr# 8810 9110 7590

0201

WM ONTA

91768

CA-US ONT



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

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

POMONA CA 91768

(626) 386-1100 REF:

INV:

DEPT:



THU - 08 MAY 10:30A

PRIORITY OVERNIGHT

1 of 3

TRK# 8810 9110 7590

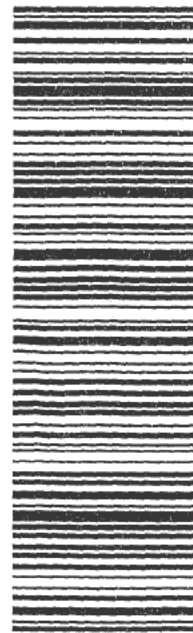
0201

MASTER

WM ONTA

91768

CA-US ONT



21 Mosses Sean 5/8/25 9:43
A 5.0-0.1 = 4.9 gel frozen

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declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g.
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within strict time limits, see current FedEx Service Guide.

Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-149692-1

SDG Number: PFAS - Kaamilo Wells P1/P2

Login Number: 149692

List Source: Eurofins Eaton Analytical Pomona

List Number: 1

Creator: Sanchez Velasquez, Gustavo

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