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ANALYTICAL REPORT

PREPARED FOR

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City & County of Honolulu
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Honolulu, Hawaii 96843

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JOB DESCRIPTION

RED-HILL
PFAS: Moanalua Wells

JOB NUMBER

380-207139-1

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: 380-207139-1
SDG: PFAS: Moanalua Wells

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: 380-207139-1

Job ID: 380-207139-1

Eurofins Pomona

Job Narrative 380-207139-1

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 4/8/2026 10:00 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 4.1°C.

PFAS

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



Detection Summary

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

Job ID: 380-207139-1
SDG: PFAS: Moanalua Wells

Client Sample ID: MOANALUA WELLS (331-223-TP202)
PWSID Number: HI0000331

Lab Sample ID: 380-207139-1

No Detections.

Client Sample ID: FB: MOANALUA WELLS (331-223-TP202)
PWSID Number: HI0000331

Lab Sample ID: 380-207139-2

No Detections.

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This Detection Summary does not include radiochemical test results.

Client Sample Results

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

Job ID: 380-207139-1
SDG: PFAS: Moanalua Wells

Client Sample ID: MOANALUA WELLS (331-223-TP202)

Lab Sample ID: 380-207139-1

Date Collected: 04/06/26 10:03

Matrix: Drinking Water

Date Received: 04/08/26 10:00

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-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		04/10/26 17:14	04/11/26 17:29	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		04/10/26 17:14	04/11/26 17:29	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		04/10/26 17:14	04/11/26 17:29	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		04/10/26 17:14	04/11/26 17:29	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		04/10/26 17:14	04/11/26 17:29	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		04/10/26 17:14	04/11/26 17:29	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		04/10/26 17:14	04/11/26 17:29	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		04/10/26 17:14	04/11/26 17:29	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		04/10/26 17:14	04/11/26 17:29	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		04/10/26 17:14	04/11/26 17:29	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		04/10/26 17:14	04/11/26 17:29	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		04/10/26 17:14	04/11/26 17:29	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		04/10/26 17:14	04/11/26 17:29	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		04/10/26 17:14	04/11/26 17:29	1
Perfluorobutanoic acid (PFBA)	<2.0		2.0	ng/L		04/10/26 17:14	04/11/26 17:29	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0	ng/L		04/10/26 17:14	04/11/26 17:29	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0	ng/L		04/10/26 17:14	04/11/26 17:29	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0	ng/L		04/10/26 17:14	04/11/26 17:29	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		2.0	ng/L		04/10/26 17:14	04/11/26 17:29	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<2.0		2.0	ng/L		04/10/26 17:14	04/11/26 17:29	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		04/10/26 17:14	04/11/26 17:29	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		04/10/26 17:14	04/11/26 17:29	1
Perfluoropentanoic acid (PFPeA)	<2.0		2.0	ng/L		04/10/26 17:14	04/11/26 17:29	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		04/10/26 17:14	04/11/26 17:29	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		04/10/26 17:14	04/11/26 17:29	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	93		50 - 200	04/10/26 17:14	04/11/26 17:29	1
13C6 PFDA	100		50 - 200	04/10/26 17:14	04/11/26 17:29	1
13C5 PFHxA	99		50 - 200	04/10/26 17:14	04/11/26 17:29	1
13C4 PFHpA	98		50 - 200	04/10/26 17:14	04/11/26 17:29	1
13C8 PFOA	106		50 - 200	04/10/26 17:14	04/11/26 17:29	1
13C9 PFNA	102		50 - 200	04/10/26 17:14	04/11/26 17:29	1
13C7 PFUnA	103		50 - 200	04/10/26 17:14	04/11/26 17:29	1
13C2 PFDoA	101		50 - 200	04/10/26 17:14	04/11/26 17:29	1
13C4 PFBA	110		50 - 200	04/10/26 17:14	04/11/26 17:29	1
13C5 PFPeA	110		50 - 200	04/10/26 17:14	04/11/26 17:29	1
13C3 PFBS	109		50 - 200	04/10/26 17:14	04/11/26 17:29	1
13C3 PFHxS	101		50 - 200	04/10/26 17:14	04/11/26 17:29	1
13C8 PFOS	105		50 - 200	04/10/26 17:14	04/11/26 17:29	1

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Client Sample Results

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

Job ID: 380-207139-1
SDG: PFAS: Moanalua Wells

Client Sample ID: MOANALUA WELLS (331-223-TP202)

Lab Sample ID: 380-207139-1

Date Collected: 04/06/26 10:03

Matrix: Drinking Water

Date Received: 04/08/26 10:00

PWSID Number: HI0000331

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	108		50 - 200	04/10/26 17:14	04/11/26 17:29	1
13C2-6:2-FTS	112		50 - 200	04/10/26 17:14	04/11/26 17:29	1
13C2-8:2-FTS	108		50 - 200	04/10/26 17:14	04/11/26 17:29	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		04/10/26 01:46	04/10/26 19:48	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		04/10/26 01:46	04/10/26 19:48	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		04/10/26 01:46	04/10/26 19:48	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		2.0	ng/L		04/10/26 01:46	04/10/26 19:48	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		2.0	ng/L		04/10/26 01:46	04/10/26 19:48	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		04/10/26 01:46	04/10/26 19:48	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		04/10/26 01:46	04/10/26 19:48	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		04/10/26 01:46	04/10/26 19:48	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		04/10/26 01:46	04/10/26 19:48	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		04/10/26 01:46	04/10/26 19:48	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		04/10/26 01:46	04/10/26 19:48	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		04/10/26 01:46	04/10/26 19:48	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		04/10/26 01:46	04/10/26 19:48	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0	ng/L		04/10/26 01:46	04/10/26 19:48	1
Perfluorotridecanoic acid (PFTTrDA)	<2.0		2.0	ng/L		04/10/26 01:46	04/10/26 19:48	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		04/10/26 01:46	04/10/26 19:48	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		04/10/26 01:46	04/10/26 19:48	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		04/10/26 01:46	04/10/26 19:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	107		70 - 130	04/10/26 01:46	04/10/26 19:48	1
13C2 PFHxA	94		70 - 130	04/10/26 01:46	04/10/26 19:48	1
13C2 PFDA	110		70 - 130	04/10/26 01:46	04/10/26 19:48	1
13C3-GenX	99		70 - 130	04/10/26 01:46	04/10/26 19:48	1

Client Sample ID: FB: MOANALUA WELLS (331-223-TP202)

Lab Sample ID: 380-207139-2

Date Collected: 04/06/26 10:03

Matrix: Drinking Water

Date Received: 04/08/26 10:00

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-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		04/10/26 17:14	04/11/26 20:55	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		04/10/26 17:14	04/11/26 20:55	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		04/10/26 17:14	04/11/26 20:55	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		04/10/26 17:14	04/11/26 20:55	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		04/10/26 17:14	04/11/26 20:55	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		04/10/26 17:14	04/11/26 20:55	1

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Client Sample Results

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

Job ID: 380-207139-1
SDG: PFAS: Moanalua Wells

Client Sample ID: FB: MOANALUA WELLS (331-223-TP202)

Lab Sample ID: 380-207139-2

Date Collected: 04/06/26 10:03

Matrix: Drinking Water

Date Received: 04/08/26 10:00

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
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		04/10/26 17:14	04/11/26 20:55	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		04/10/26 17:14	04/11/26 20:55	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		04/10/26 17:14	04/11/26 20:55	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		04/10/26 17:14	04/11/26 20:55	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		04/10/26 17:14	04/11/26 20:55	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		04/10/26 17:14	04/11/26 20:55	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		04/10/26 17:14	04/11/26 20:55	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		04/10/26 17:14	04/11/26 20:55	1
Perfluorobutanoic acid (PFBA)	<2.0		2.0	ng/L		04/10/26 17:14	04/11/26 20:55	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0	ng/L		04/10/26 17:14	04/11/26 20:55	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0	ng/L		04/10/26 17:14	04/11/26 20:55	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0	ng/L		04/10/26 17:14	04/11/26 20:55	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		2.0	ng/L		04/10/26 17:14	04/11/26 20:55	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<2.0		2.0	ng/L		04/10/26 17:14	04/11/26 20:55	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		04/10/26 17:14	04/11/26 20:55	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		04/10/26 17:14	04/11/26 20:55	1
Perfluoropentanoic acid (PFPeA)	<2.0		2.0	ng/L		04/10/26 17:14	04/11/26 20:55	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		04/10/26 17:14	04/11/26 20:55	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		04/10/26 17:14	04/11/26 20:55	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	91		50 - 200	04/10/26 17:14	04/11/26 20:55	1
13C6 PFDA	101		50 - 200	04/10/26 17:14	04/11/26 20:55	1
13C5 PFHxA	95		50 - 200	04/10/26 17:14	04/11/26 20:55	1
13C4 PFHpA	104		50 - 200	04/10/26 17:14	04/11/26 20:55	1
13C8 PFOA	104		50 - 200	04/10/26 17:14	04/11/26 20:55	1
13C9 PFNA	98		50 - 200	04/10/26 17:14	04/11/26 20:55	1
13C7 PFUnA	103		50 - 200	04/10/26 17:14	04/11/26 20:55	1
13C2 PFDoA	105		50 - 200	04/10/26 17:14	04/11/26 20:55	1
13C4 PFBA	107		50 - 200	04/10/26 17:14	04/11/26 20:55	1
13C5 PFPeA	108		50 - 200	04/10/26 17:14	04/11/26 20:55	1
13C3 PFBS	105		50 - 200	04/10/26 17:14	04/11/26 20:55	1
13C3 PFHxS	110		50 - 200	04/10/26 17:14	04/11/26 20:55	1
13C8 PFOS	107		50 - 200	04/10/26 17:14	04/11/26 20:55	1
13C2-4:2-FTS	111		50 - 200	04/10/26 17:14	04/11/26 20:55	1
13C2-6:2-FTS	113		50 - 200	04/10/26 17:14	04/11/26 20:55	1
13C2-8:2-FTS	117		50 - 200	04/10/26 17:14	04/11/26 20:55	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		04/10/26 01:46	04/11/26 13:57	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		04/10/26 01:46	04/11/26 13:57	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		04/10/26 01:46	04/11/26 13:57	1

Eurofins Pomona

Client Sample Results

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

Job ID: 380-207139-1
SDG: PFAS: Moanalua Wells

Client Sample ID: FB: MOANALUA WELLS (331-223-TP202)

Lab Sample ID: 380-207139-2

Date Collected: 04/06/26 10:03

Matrix: Drinking Water

Date Received: 04/08/26 10:00

PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		2.0	ng/L		04/10/26 01:46	04/11/26 13:57	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		2.0	ng/L		04/10/26 01:46	04/11/26 13:57	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		04/10/26 01:46	04/11/26 13:57	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		04/10/26 01:46	04/11/26 13:57	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		04/10/26 01:46	04/11/26 13:57	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		04/10/26 01:46	04/11/26 13:57	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		04/10/26 01:46	04/11/26 13:57	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		04/10/26 01:46	04/11/26 13:57	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		04/10/26 01:46	04/11/26 13:57	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		04/10/26 01:46	04/11/26 13:57	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0	ng/L		04/10/26 01:46	04/11/26 13:57	1
Perfluorotridecanoic acid (PFTrDA)	<2.0		2.0	ng/L		04/10/26 01:46	04/11/26 13:57	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	<2.0		2.0	ng/L		04/10/26 01:46	04/11/26 13:57	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		04/10/26 01:46	04/11/26 13:57	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		04/10/26 01:46	04/11/26 13:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	98		70 - 130	04/10/26 01:46	04/11/26 13:57	1
13C2 PFHxA	94		70 - 130	04/10/26 01:46	04/11/26 13:57	1
13C2 PFDA	105		70 - 130	04/10/26 01:46	04/11/26 13:57	1
13C3-GenX	89		70 - 130	04/10/26 01:46	04/11/26 13:57	1

Action Limit Summary

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

Job ID: 380-207139-1
SDG: PFAS: Moanalua Wells

Client Sample ID: MOANALUA WELLS (331-223-TP202)

Lab Sample ID: 380-207139-1

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)	<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

Client Sample ID: FB: MOANALUA WELLS (331-223-TP202)

Lab Sample ID: 380-207139-2

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: 380-207139-1
 SDG: PFAS: Moanalua Wells

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

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)
380-207139-1	MOANALUA WELLS (331-223-TP20)	107	94	110	99
380-207139-2	FB: MOANALUA WELLS (331-223-TP202)	98	94	105	89

Surrogate Legend

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

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)
380-207142-B-1-A MS	Matrix Spike	100	90	105	94
380-207142-C-1-A MSD	Matrix Spike Duplicate	90	90	102	91
LCS 380-219039/21-A	Lab Control Sample	79	88	90	83
MBL 380-219039/19-A	Method Blank	106	108	119	99
MRL 380-219039/20-A	Lab Control Sample	100	101	112	100

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: 380-207139-1
SDG: PFAS: Moanalua Wells

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)	PFD _o A (50-200)
380-207139-1	MOANALUA WELLS (331-223-TP202)	93	100	99	98	106	102	103	101
380-207139-1 MS	MOANALUA WELLS (331-223-TP202)	105	99	106	104	104	104	112	112
380-207139-1 MSD	MOANALUA WELLS (331-223-TP202)	101	99	102	99	102	99	111	106
380-207139-2	FB: MOANALUA WELLS (331-223-TP202)	91	101	95	104	104	98	103	105

		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)
380-207139-1	MOANALUA WELLS (331-223-TP202)	110	110	109	101	105	108	112	108
380-207139-1 MS	MOANALUA WELLS (331-223-TP202)	110	115	105	103	107	104	107	107
380-207139-1 MSD	MOANALUA WELLS (331-223-TP202)	105	113	112	103	107	106	115	111
380-207139-2	FB: MOANALUA WELLS (331-223-TP202)	107	108	105	110	107	111	113	117

Surrogate Legend

- HFPODA = 13C3 HFPO-DA
- C6PFDA = 13C6 PFDA
- 13C5PHA = 13C5 PFHxA
- C4PFHA = 13C4 PFHpA
- C8PFOA = 13C8 PFOA
- C9PFNA = 13C9 PFNA
- 13C7PUA = 13C7 PFUnA
- PFD_oA = 13C2 PFDoA
- 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

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

Matrix: Water

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	HFPODA (50-200)	C6PFDA (50-200)	13C5PHA (50-200)	C4PFHA (50-200)	C8PFOA (50-200)	C9PFNA (50-200)	13C7PUA (50-200)	PFD _o A (50-200)
LCS 380-219211/22-A	Lab Control Sample	102	101	103	102	106	101	107	104
MBL 380-219211/20-A	Method Blank	99	96	112	99	101	100	106	108
MRL 380-219211/21-A	Lab Control Sample	94	98	106	100	102	99	106	104

		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)
LCS 380-219211/22-A	Lab Control Sample	105	105	112	107	111	110	110	106
MBL 380-219211/20-A	Method Blank	107	105	103	102	103	102	105	102
MRL 380-219211/21-A	Lab Control Sample	105	103	110	103	103	99	110	101

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Isotope Dilution Summary

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

Job ID: 380-207139-1
SDG: PFAS: Moanalua Wells

Surrogate Legend

HFPODA = 13C3 HFPO-DA
C6PFDA = 13C6 PFDA
13C5PHA = 13C5 PFHxA
C4PFHA = 13C4 PFHpA
C8PFOA = 13C8 PFOA
C9PFNA = 13C9 PFNA
13C7PUA = 13C7 PFUnA
PFDoA = 13C2 PFDoA
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

- 1
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- 3
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- 17

QC Sample Results

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

Job ID: 380-207139-1
SDG: PFAS: Moanalua Wells

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

Lab Sample ID: MBL 380-219211/20-A
Matrix: Water
Analysis Batch: 219383

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 219211

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<0.30		2.0	ng/L		04/10/26 17:14	04/11/26 16:59	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<0.30		2.0	ng/L		04/10/26 17:14	04/11/26 16:59	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.60		2.0	ng/L		04/10/26 17:14	04/11/26 16:59	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<1.0		2.0	ng/L		04/10/26 17:14	04/11/26 16:59	1
Perfluorobutanesulfonic acid (PFBS)	<0.37		2.0	ng/L		04/10/26 17:14	04/11/26 16:59	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	ng/L		04/10/26 17:14	04/11/26 16:59	1
Perfluorododecanoic acid (PFDoA)	<0.54		2.0	ng/L		04/10/26 17:14	04/11/26 16:59	1
Perfluoroheptanoic acid (PFHpA)	<0.39		2.0	ng/L		04/10/26 17:14	04/11/26 16:59	1
Perfluorohexanesulfonic acid (PFHxS)	<0.32		2.0	ng/L		04/10/26 17:14	04/11/26 16:59	1
Perfluorohexanoic acid (PFHxA)	<0.46		2.0	ng/L		04/10/26 17:14	04/11/26 16:59	1
Perfluorononanoic acid (PFNA)	<0.40		2.0	ng/L		04/10/26 17:14	04/11/26 16:59	1
Perfluorooctanesulfonic acid (PFOS)	<0.43		2.0	ng/L		04/10/26 17:14	04/11/26 16:59	1
Perfluorooctanoic acid (PFOA)	<0.38		2.0	ng/L		04/10/26 17:14	04/11/26 16:59	1
Perfluoroundecanoic acid (PFUnA)	<0.42		2.0	ng/L		04/10/26 17:14	04/11/26 16:59	1
Perfluorobutanoic acid (PFBA)	<0.69		2.0	ng/L		04/10/26 17:14	04/11/26 16:59	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<0.38		2.0	ng/L		04/10/26 17:14	04/11/26 16:59	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<0.37		2.0	ng/L		04/10/26 17:14	04/11/26 16:59	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<0.48		2.0	ng/L		04/10/26 17:14	04/11/26 16:59	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.47		2.0	ng/L		04/10/26 17:14	04/11/26 16:59	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<0.25		2.0	ng/L		04/10/26 17:14	04/11/26 16:59	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.46		2.0	ng/L		04/10/26 17:14	04/11/26 16:59	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.15		2.0	ng/L		04/10/26 17:14	04/11/26 16:59	1
Perfluoropentanoic acid (PFPeA)	<0.38		2.0	ng/L		04/10/26 17:14	04/11/26 16:59	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.36		2.0	ng/L		04/10/26 17:14	04/11/26 16:59	1
Perfluoropentanesulfonic acid (PFPeS)	<0.39		2.0	ng/L		04/10/26 17:14	04/11/26 16:59	1

Isotope Dilution	MBL %Recovery	MBL Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	99		50 - 200	04/10/26 17:14	04/11/26 16:59	1
13C6 PFDA	96		50 - 200	04/10/26 17:14	04/11/26 16:59	1
13C5 PFHxA	112		50 - 200	04/10/26 17:14	04/11/26 16:59	1
13C4 PFHpA	99		50 - 200	04/10/26 17:14	04/11/26 16:59	1
13C8 PFOA	101		50 - 200	04/10/26 17:14	04/11/26 16:59	1
13C9 PFNA	100		50 - 200	04/10/26 17:14	04/11/26 16:59	1
13C7 PFUnA	106		50 - 200	04/10/26 17:14	04/11/26 16:59	1
13C2 PFDoA	108		50 - 200	04/10/26 17:14	04/11/26 16:59	1
13C4 PFBA	107		50 - 200	04/10/26 17:14	04/11/26 16:59	1
13C5 PFPeA	105		50 - 200	04/10/26 17:14	04/11/26 16:59	1
13C3 PFBS	103		50 - 200	04/10/26 17:14	04/11/26 16:59	1
13C3 PFHxS	102		50 - 200	04/10/26 17:14	04/11/26 16:59	1

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QC Sample Results

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

Job ID: 380-207139-1
SDG: PFAS: Moanalua Wells

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

Lab Sample ID: MBL 380-219211/20-A
Matrix: Water
Analysis Batch: 219383

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 219211

Isotope Dilution	MBL MBL		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C8 PFOS	103		50 - 200	04/10/26 17:14	04/11/26 16:59	1
13C2-4:2-FTS	102		50 - 200	04/10/26 17:14	04/11/26 16:59	1
13C2-6:2-FTS	105		50 - 200	04/10/26 17:14	04/11/26 16:59	1
13C2-8:2-FTS	102		50 - 200	04/10/26 17:14	04/11/26 16:59	1

Lab Sample ID: LCS 380-219211/22-A
Matrix: Water
Analysis Batch: 219383

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 219211

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	60.0	58.9		ng/L		98	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	60.0	61.1		ng/L		102	70 - 130
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	60.0	57.8		ng/L		96	70 - 130
Perfluorobutanesulfonic acid (PFBS)	60.0	57.0		ng/L		95	70 - 130
Perfluorodecanoic acid (PFDA)	60.0	60.2		ng/L		100	70 - 130
Perfluorododecanoic acid (PFDoA)	60.0	61.5		ng/L		102	70 - 130
Perfluoroheptanoic acid (PFHpA)	60.0	59.5		ng/L		99	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	60.0	59.6		ng/L		99	70 - 130
Perfluorohexanoic acid (PFHxA)	60.0	61.8		ng/L		103	70 - 130
Perfluorononanoic acid (PFNA)	60.0	59.3		ng/L		99	70 - 130
Perfluorooctanesulfonic acid (PFOS)	60.0	57.8		ng/L		96	70 - 130
Perfluorooctanoic acid (PFOA)	60.0	59.5		ng/L		99	70 - 130
Perfluoroundecanoic acid (PFUnA)	60.0	60.7		ng/L		101	70 - 130
Perfluorobutanoic acid (PFBA)	60.0	59.1		ng/L		99	70 - 130
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	60.0	61.2		ng/L		102	70 - 130
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	60.0	56.2		ng/L		94	70 - 130
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	60.0	61.3		ng/L		102	70 - 130
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	60.0	65.3		ng/L		109	70 - 130
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	60.0	58.1		ng/L		97	70 - 130
Perfluoro-3-methoxypropanoic acid (PFMPA)	60.0	58.1		ng/L		97	70 - 130
Perfluoro-4-methoxybutanoic acid (PFMBA)	60.0	58.9		ng/L		98	70 - 130
Perfluoropentanoic acid (PFPeA)	60.0	59.2		ng/L		99	70 - 130
Perfluoroheptanesulfonic acid (PFHpS)	60.0	57.9		ng/L		96	70 - 130

QC Sample Results

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

Job ID: 380-207139-1
SDG: PFAS: Moanalua Wells

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

Lab Sample ID: LCS 380-219211/22-A
Matrix: Water
Analysis Batch: 219383

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 219211

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoropentanesulfonic acid (PFPeS)	60.0	66.0		ng/L		110	70 - 130
LCS LCS							
Isotope Dilution	%Recovery	Qualifier	Limits				
13C3 HFPO-DA	102		50 - 200				
13C6 PFDA	101		50 - 200				
13C5 PFHxA	103		50 - 200				
13C4 PFHpA	102		50 - 200				
13C8 PFOA	106		50 - 200				
13C9 PFNA	101		50 - 200				
13C7 PFUnA	107		50 - 200				
13C2 PFDoA	104		50 - 200				
13C4 PFBA	105		50 - 200				
13C5 PFPeA	105		50 - 200				
13C3 PFBS	112		50 - 200				
13C3 PFHxS	107		50 - 200				
13C8 PFOS	111		50 - 200				
13C2-4:2-FTS	110		50 - 200				
13C2-6:2-FTS	110		50 - 200				
13C2-8:2-FTS	106		50 - 200				

Lab Sample ID: MRL 380-219211/21-A
Matrix: Water
Analysis Batch: 219383

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 219211

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.00	2.31	J	ng/L		116	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	2.00	2.17	J	ng/L		108	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	2.00	2.38	J	ng/L		119	50 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	2.00	2.35	J	ng/L		117	50 - 150
Perfluorobutanesulfonic acid (PFBS)	2.00	2.12	J	ng/L		106	50 - 150
Perfluorodecanoic acid (PFDA)	2.00	2.27	J	ng/L		114	50 - 150
Perfluorododecanoic acid (PFDoA)	2.00	2.34	J	ng/L		117	50 - 150
Perfluoroheptanoic acid (PFHpA)	2.00	2.33	J	ng/L		117	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	2.00	2.31	J	ng/L		116	50 - 150
Perfluorohexanoic acid (PFHxA)	2.00	2.29	J	ng/L		114	50 - 150
Perfluorononanoic acid (PFNA)	2.00	2.32	J	ng/L		116	50 - 150
Perfluorooctanesulfonic acid (PFOS)	2.00	2.23	J	ng/L		112	50 - 150
Perfluorooctanoic acid (PFOA)	2.00	2.42	J	ng/L		121	50 - 150
Perfluoroundecanoic acid (PFUnA)	2.00	2.14	J	ng/L		107	50 - 150
Perfluorobutanoic acid (PFBA)	2.00	2.33	J	ng/L		116	50 - 150

Eurofins Pomona

QC Sample Results

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

Job ID: 380-207139-1
SDG: PFAS: Moanalua Wells

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

Lab Sample ID: MRL 380-219211/21-A

Matrix: Water

Analysis Batch: 219383

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 219211

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	2.00	2.53	J	ng/L		126	50 - 150
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	2.00	2.38	J	ng/L		119	50 - 150
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	2.00	2.38	J	ng/L		119	50 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	2.00	2.05	J	ng/L		102	50 - 150
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	2.00	2.13	J	ng/L		107	50 - 150
Perfluoro-3-methoxypropanoic acid (PFMPA)	2.00	2.16	J	ng/L		108	50 - 150
Perfluoro-4-methoxybutanoic acid (PFMBA)	2.00	2.23	J	ng/L		112	50 - 150
Perfluoropentanoic acid (PFPeA)	2.00	2.43	J	ng/L		121	50 - 150
Perfluoroheptanesulfonic acid (PFHpS)	2.00	2.28	J	ng/L		114	50 - 150
Perfluoropentanesulfonic acid (PFPeS)	2.00	2.55	J	ng/L		128	50 - 150

Isotope Dilution	MRL %Recovery	MRL Qualifier	MRL Limits
13C3 HFPO-DA	94		50 - 200
13C6 PFDA	98		50 - 200
13C5 PFHxA	106		50 - 200
13C4 PFHpA	100		50 - 200
13C8 PFOA	102		50 - 200
13C9 PFNA	99		50 - 200
13C7 PFUnA	106		50 - 200
13C2 PFDoA	104		50 - 200
13C4 PFBA	105		50 - 200
13C5 PFPeA	103		50 - 200
13C3 PFBS	110		50 - 200
13C3 PFHxS	103		50 - 200
13C8 PFOS	103		50 - 200
13C2-4:2-FTS	99		50 - 200
13C2-6:2-FTS	110		50 - 200
13C2-8:2-FTS	101		50 - 200

Lab Sample ID: 380-207139-1 MS

Matrix: Drinking Water

Analysis Batch: 219383

Client Sample ID: MOANALUA WELLS (331-223-TP202)

Prep Type: Total/NA

Prep Batch: 219211

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		120	118		ng/L		98	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		120	115		ng/L		96	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		120	122		ng/L		102	70 - 130

QC Sample Results

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

Job ID: 380-207139-1
SDG: PFAS: Moanalua Wells

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

Lab Sample ID: 380-207139-1 MS

Client Sample ID: MOANALUA WELLS (331-223-TP202)

Matrix: Drinking Water

Prep Type: Total/NA

Analysis Batch: 219383

Prep Batch: 219211

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier	Added	Result	Qualifier				
Hexafluoropropylene Oxide	<2.0		120	121		ng/L		100	70 - 130
Dimer Acid (HFPO-DA/GenX)									
Perfluorobutanesulfonic acid (PFBS)	<2.0		120	120		ng/L		99	70 - 130
Perfluorodecanoic acid (PFDA)	<2.0		120	124		ng/L		103	70 - 130
Perfluorododecanoic acid (PFDoA)	<2.0		120	118		ng/L		98	70 - 130
Perfluoroheptanoic acid (PFHpA)	<2.0		120	117		ng/L		96	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	<2.0		120	125		ng/L		102	70 - 130
Perfluorohexanoic acid (PFHxA)	<2.0		120	124		ng/L		102	70 - 130
Perfluorononanoic acid (PFNA)	<2.0		120	120		ng/L		99	70 - 130
Perfluorooctanesulfonic acid (PFOS)	<2.0		120	122		ng/L		100	70 - 130
Perfluorooctanoic acid (PFOA)	<2.0		120	122		ng/L		101	70 - 130
Perfluoroundecanoic acid (PFUnA)	<2.0		120	116		ng/L		96	70 - 130
Perfluorobutanoic acid (PFBA)	<2.0		120	120		ng/L		98	70 - 130
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		120	116		ng/L		96	70 - 130
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		120	111		ng/L		92	70 - 130
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		120	122		ng/L		102	70 - 130
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		120	119		ng/L		99	70 - 130
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<2.0		120	120		ng/L		100	70 - 130
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		120	118		ng/L		98	70 - 130
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		120	115		ng/L		96	70 - 130
Perfluoropentanoic acid (PFPeA)	<2.0		120	115		ng/L		94	70 - 130
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		120	116		ng/L		97	70 - 130
Perfluoropentanesulfonic acid (PFPeS)	<2.0		120	135		ng/L		112	70 - 130

Isotope Dilution	MS MS		Limits
	%Recovery	Qualifier	
13C3 HFPO-DA	105		50 - 200
13C6 PFDA	99		50 - 200
13C5 PFHxA	106		50 - 200
13C4 PFHpA	104		50 - 200
13C8 PFOA	104		50 - 200
13C9 PFNA	104		50 - 200
13C7 PFUnA	112		50 - 200
13C2 PFDoA	112		50 - 200
13C4 PFBA	110		50 - 200
13C5 PFPeA	115		50 - 200
13C3 PFBS	105		50 - 200
13C3 PFHxS	103		50 - 200
13C8 PFOS	107		50 - 200

QC Sample Results

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

Job ID: 380-207139-1
SDG: PFAS: Moanalua Wells

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

Lab Sample ID: 380-207139-1 MS
Matrix: Drinking Water
Analysis Batch: 219383

Client Sample ID: MOANALUA WELLS (331-223-TP202)
Prep Type: Total/NA
Prep Batch: 219211

<i>Isotope Dilution</i>	<i>MS MS</i>	<i>Limits</i>
	<i>%Recovery</i>	<i>Qualifier</i>
13C2-4:2-FTS	104	50 - 200
13C2-6:2-FTS	107	50 - 200
13C2-8:2-FTS	107	50 - 200

Lab Sample ID: 380-207139-1 MSD
Matrix: Drinking Water
Analysis Batch: 219383

Client Sample ID: MOANALUA WELLS (331-223-TP202)
Prep Type: Total/NA
Prep Batch: 219211

<i>Analyte</i>	<i>Sample Result</i>	<i>Sample Qualifier</i>	<i>Spike Added</i>	<i>MSD Result</i>	<i>MSD Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec Limits</i>	<i>RPD</i>	<i>RPD Limit</i>
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		120	120		ng/L		99	70 - 130	2	30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		120	113		ng/L		94	70 - 130	2	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		120	127		ng/L		105	70 - 130	3	30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		120	120		ng/L		100	70 - 130	1	30
Perfluorobutanesulfonic acid (PFBS)	<2.0		120	119		ng/L		98	70 - 130	1	30
Perfluorodecanoic acid (PFDA)	<2.0		120	125		ng/L		104	70 - 130	0	30
Perfluorododecanoic acid (PFDoA)	<2.0		120	118		ng/L		98	70 - 130	0	30
Perfluoroheptanoic acid (PFHpA)	<2.0		120	124		ng/L		102	70 - 130	6	30
Perfluorohexanesulfonic acid (PFHxS)	<2.0		120	127		ng/L		104	70 - 130	2	30
Perfluorohexanoic acid (PFHxA)	<2.0		120	125		ng/L		103	70 - 130	1	30
Perfluorononanoic acid (PFNA)	<2.0		120	119		ng/L		99	70 - 130	1	30
Perfluorooctanesulfonic acid (PFOS)	<2.0		120	119		ng/L		98	70 - 130	2	30
Perfluorooctanoic acid (PFOA)	<2.0		120	120		ng/L		98	70 - 130	2	30
Perfluoroundecanoic acid (PFUnA)	<2.0		120	114		ng/L		95	70 - 130	1	30
Perfluorobutanoic acid (PFBA)	<2.0		120	120		ng/L		99	70 - 130	0	30
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		120	118		ng/L		98	70 - 130	2	30
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		120	111		ng/L		92	70 - 130	0	30
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		120	119		ng/L		98	70 - 130	3	30
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		120	125		ng/L		104	70 - 130	5	30
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<2.0		120	117		ng/L		97	70 - 130	3	30
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		120	121		ng/L		101	70 - 130	2	30
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		120	117		ng/L		97	70 - 130	2	30
Perfluoropentanoic acid (PFPeA)	<2.0		120	117		ng/L		96	70 - 130	2	30
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		120	117		ng/L		97	70 - 130	0	30
Perfluoropentanesulfonic acid (PFPeS)	<2.0		120	136		ng/L		113	70 - 130	0	30

QC Sample Results

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

Job ID: 380-207139-1
SDG: PFAS: Moanalua Wells

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

Isotope Dilution	MSD MSD		Limits
	%Recovery	Qualifier	
13C3 HFPO-DA	101		50 - 200
13C6 PFDA	99		50 - 200
13C5 PFHxA	102		50 - 200
13C4 PFHpA	99		50 - 200
13C8 PFOA	102		50 - 200
13C9 PFNA	99		50 - 200
13C7 PFUnA	111		50 - 200
13C2 PFDoA	106		50 - 200
13C4 PFBA	105		50 - 200
13C5 PFPeA	113		50 - 200
13C3 PFBS	112		50 - 200
13C3 PFHxS	103		50 - 200
13C8 PFOS	107		50 - 200
13C2-4:2-FTS	106		50 - 200
13C2-6:2-FTS	115		50 - 200
13C2-8:2-FTS	111		50 - 200

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

Lab Sample ID: MBL 380-219039/19-A
Matrix: Water
Analysis Batch: 219214

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 219039

Analyte	MBL MBL		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<1.0		2.0	ng/L		04/10/26 01:46	04/10/26 16:35	1
Perfluorooctanesulfonic acid (PFOS)	<0.43		2.0	ng/L		04/10/26 01:46	04/10/26 16:35	1
Perfluoroundecanoic acid (PFUnA)	<0.42		2.0	ng/L		04/10/26 01:46	04/10/26 16:35	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.58		2.0	ng/L		04/10/26 01:46	04/10/26 16:35	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.42		2.0	ng/L		04/10/26 01:46	04/10/26 16:35	1
Perfluorohexanoic acid (PFHxA)	<0.46		2.0	ng/L		04/10/26 01:46	04/10/26 16:35	1
Perfluorododecanoic acid (PFDoA)	<0.54		2.0	ng/L		04/10/26 01:46	04/10/26 16:35	1
Perfluorooctanoic acid (PFOA)	<0.38		2.0	ng/L		04/10/26 01:46	04/10/26 16:35	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	ng/L		04/10/26 01:46	04/10/26 16:35	1
Perfluorohexanesulfonic acid (PFHxS)	<0.32		2.0	ng/L		04/10/26 01:46	04/10/26 16:35	1
Perfluorobutanesulfonic acid (PFBS)	<0.37		2.0	ng/L		04/10/26 01:46	04/10/26 16:35	1
Perfluoroheptanoic acid (PFHpA)	<0.39		2.0	ng/L		04/10/26 01:46	04/10/26 16:35	1
Perfluorononanoic acid (PFNA)	<0.40		2.0	ng/L		04/10/26 01:46	04/10/26 16:35	1
Perfluorotetradecanoic acid (PFTA)	<0.54		2.0	ng/L		04/10/26 01:46	04/10/26 16:35	1
Perfluorotridecanoic acid (PFTTrDA)	<0.36		2.0	ng/L		04/10/26 01:46	04/10/26 16:35	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<0.30		2.0	ng/L		04/10/26 01:46	04/10/26 16:35	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<0.30		2.0	ng/L		04/10/26 01:46	04/10/26 16:35	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.60		2.0	ng/L		04/10/26 01:46	04/10/26 16:35	1
Surrogate	MBL MBL		Limits			Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier						
d5-NEtFOSAA	106		70 - 130			04/10/26 01:46	04/10/26 16:35	1
13C2 PFHxA	108		70 - 130			04/10/26 01:46	04/10/26 16:35	1
13C2 PFDA	119		70 - 130			04/10/26 01:46	04/10/26 16:35	1

Eurofins Pomona

QC Sample Results

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

Job ID: 380-207139-1
SDG: PFAS: Moanalua Wells

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

Lab Sample ID: MBL 380-219039/19-A
Matrix: Water
Analysis Batch: 219214

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 219039

<i>Surrogate</i>	<i>MBL</i>	<i>MBL</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C3-GenX	99	Qualifier	70 - 130	04/10/26 01:46	04/10/26 16:35	1

Lab Sample ID: LCS 380-219039/21-A
Matrix: Water
Analysis Batch: 219214

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 219039

<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>Added</i>	<i>Result</i>	<i>Qualifier</i>			<i>Limits</i>	<i>Limits</i>
Hexafluoropropylene Oxide	25.0	21.9		ng/L		88	70 - 130
Dimer Acid (HFPO-DA/GenX)							
Perfluorooctanesulfonic acid (PFOS)	25.0	24.4		ng/L		98	70 - 130
Perfluoroundecanoic acid (PFUnA)	25.0	22.8		ng/L		91	70 - 130
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	25.0	20.5		ng/L		82	70 - 130
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	25.0	22.1		ng/L		88	70 - 130
Perfluorohexanoic acid (PFHxA)	25.0	21.9		ng/L		88	70 - 130
Perfluorododecanoic acid (PFDoA)	25.0	21.7		ng/L		87	70 - 130
Perfluorooctanoic acid (PFOA)	25.0	22.2		ng/L		89	70 - 130
Perfluorodecanoic acid (PFDA)	25.0	23.6		ng/L		94	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	25.0	24.3		ng/L		97	70 - 130
Perfluorobutanesulfonic acid (PFBS)	25.0	25.0		ng/L		100	70 - 130
Perfluoroheptanoic acid (PFHpA)	25.0	22.8		ng/L		91	70 - 130
Perfluorononanoic acid (PFNA)	25.0	24.9		ng/L		99	70 - 130
Perfluorotetradecanoic acid (PFTA)	25.0	22.3		ng/L		89	70 - 130
Perfluorotridecanoic acid (PFTrDA)	25.0	22.3		ng/L		89	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	25.0	23.6		ng/L		94	70 - 130
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	25.0	20.3		ng/L		81	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	25.0	22.1		ng/L		88	70 - 130

<i>Surrogate</i>	<i>LCS</i>	<i>LCS</i>	<i>Limits</i>
	<i>%Recovery</i>	<i>Qualifier</i>	
d5-NEtFOSAA	79		70 - 130
13C2 PFHxA	88		70 - 130
13C2 PFDA	90		70 - 130
13C3-GenX	83		70 - 130

QC Sample Results

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

Job ID: 380-207139-1
SDG: PFAS: Moanalua Wells

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

Lab Sample ID: MRL 380-219039/20-A
Matrix: Water
Analysis Batch: 219214

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 219039

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits	
Hexafluoropropylene Oxide	2.00	2.00	J	ng/L		100	50 - 150	
Dimer Acid (HFPO-DA/GenX)								
Perfluorooctanesulfonic acid (PFOS)	2.00	2.13	J	ng/L		106	50 - 150	
Perfluoroundecanoic acid (PFUnA)	2.00	2.47	J	ng/L		123	50 - 150	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.00	1.94	J	ng/L		97	50 - 150	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.00	2.14	J	ng/L		107	50 - 150	
Perfluorohexanoic acid (PFHxA)	2.00	2.14	J	ng/L		107	50 - 150	
Perfluorododecanoic acid (PFDoA)	2.00	2.34	J	ng/L		117	50 - 150	
Perfluorooctanoic acid (PFOA)	2.00	2.05	J	ng/L		103	50 - 150	
Perfluorodecanoic acid (PFDA)	2.00	2.35	J	ng/L		117	50 - 150	
Perfluorohexanesulfonic acid (PFHxS)	2.00	2.18	J	ng/L		109	50 - 150	
Perfluorobutanesulfonic acid (PFBS)	2.00	2.03	J	ng/L		101	50 - 150	
Perfluoroheptanoic acid (PFHpA)	2.00	2.14	J	ng/L		107	50 - 150	
Perfluorononanoic acid (PFNA)	2.00	2.47	J	ng/L		123	50 - 150	
Perfluorotetradecanoic acid (PFTA)	2.00	2.44	J	ng/L		122	50 - 150	
Perfluorotridecanoic acid (PFTrDA)	2.00	2.50	J	ng/L		125	50 - 150	
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	2.00	2.05	J	ng/L		102	50 - 150	
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.00	1.96	J	ng/L		98	50 - 150	
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	2.00	2.02	J	ng/L		101	50 - 150	
		MRL	MRL					
Surrogate		%Recovery	Qualifier				Limits	
d5-NEtFOSAA		100					70 - 130	
13C2 PFHxA		101					70 - 130	
13C2 PFDA		112					70 - 130	
13C3-GenX		100					70 - 130	

Lab Sample ID: 380-207142-B-1-A MS
Matrix: Water
Analysis Batch: 219214

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 219039

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	
Hexafluoropropylene Oxide	<2.0		50.1	47.0		ng/L		94	70 - 130	
Dimer Acid (HFPO-DA/GenX)										
Perfluorooctanesulfonic acid (PFOS)	2.6		50.1	52.4		ng/L		99	70 - 130	
Perfluoroundecanoic acid (PFUnA)	<2.0		50.1	52.2		ng/L		104	70 - 130	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		50.1	47.0		ng/L		94	70 - 130	

Eurofins Pomona

QC Sample Results

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

Job ID: 380-207139-1
SDG: PFAS: Moanalua Wells

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

Lab Sample ID: 380-207142-B-1-A MS

Client Sample ID: Matrix Spike

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 219214

Prep Batch: 219039

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier	Added	Result	Qualifier				
N-ethylperfluorooctanesulfonamide acetic acid (NEtFOSAA)	<2.0		50.1	49.5		ng/L		99	70 - 130
Perfluorohexanoic acid (PFHxA)	2.7		50.1	47.9		ng/L		90	70 - 130
Perfluorododecanoic acid (PFDoA)	<2.0		50.1	52.3		ng/L		104	70 - 130
Perfluorooctanoic acid (PFOA)	<2.0		50.1	48.5		ng/L		93	70 - 130
Perfluorodecanoic acid (PFDA)	<2.0		50.1	53.2		ng/L		106	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	2.7		50.1	52.7		ng/L		100	70 - 130
Perfluorobutanesulfonic acid (PFBS)	<2.0		50.1	52.1		ng/L		101	70 - 130
Perfluoroheptanoic acid (PFHpA)	<2.0		50.1	48.9		ng/L		96	70 - 130
Perfluorononanoic acid (PFNA)	<2.0		50.1	50.0		ng/L		100	70 - 130
Perfluorotetradecanoic acid (PFTA)	<2.0		50.1	51.1		ng/L		102	70 - 130
Perfluorotridecanoic acid (PFTrDA)	<2.0		50.1	54.4		ng/L		109	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		50.1	47.0		ng/L		94	70 - 130
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		50.1	48.2		ng/L		96	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		50.1	45.9		ng/L		92	70 - 130
MS MS									
Surrogate	%Recovery	Qualifier	Limits						
d5-NEtFOSAA	100		70 - 130						
13C2 PFHxA	90		70 - 130						
13C2 PFDA	105		70 - 130						
13C3-GenX	94		70 - 130						

Lab Sample ID: 380-207142-C-1-A MSD

Client Sample ID: Matrix Spike Duplicate

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 219214

Prep Batch: 219039

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec Limits	RPD	
	Result	Qualifier	Added	Result	Qualifier					RPD	Limit
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		50.2	45.5		ng/L		91	70 - 130	3	30
Perfluorooctanesulfonic acid (PFOS)	2.6		50.2	55.5		ng/L		105	70 - 130	6	30
Perfluoroundecanoic acid (PFUnA)	<2.0		50.2	51.6		ng/L		103	70 - 130	1	30
N-methylperfluorooctanesulfonamide acetic acid (NMeFOSAA)	<2.0		50.2	46.6		ng/L		93	70 - 130	1	30
N-ethylperfluorooctanesulfonamide acetic acid (NEtFOSAA)	<2.0		50.2	46.8		ng/L		93	70 - 130	6	30
Perfluorohexanoic acid (PFHxA)	2.7		50.2	46.6		ng/L		88	70 - 130	3	30
Perfluorododecanoic acid (PFDoA)	<2.0		50.2	50.2		ng/L		100	70 - 130	4	30
Perfluorooctanoic acid (PFOA)	<2.0		50.2	48.6		ng/L		93	70 - 130	0	30
Perfluorodecanoic acid (PFDA)	<2.0		50.2	50.4		ng/L		100	70 - 130	5	30

Eurofins Pomona

QC Association Summary

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

Job ID: 380-207139-1
 SDG: PFAS: Moanalua Wells

LCMS

Prep Batch: 219039

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-207139-1	MOANALUA WELLS (331-223-TP202)	Total/NA	Drinking Water	537.1 DW	
380-207139-2	FB: MOANALUA WELLS (331-223-TP202)	Total/NA	Drinking Water	537.1 DW	
MBL 380-219039/19-A	Method Blank	Total/NA	Water	537.1 DW	
LCS 380-219039/21-A	Lab Control Sample	Total/NA	Water	537.1 DW	
MRL 380-219039/20-A	Lab Control Sample	Total/NA	Water	537.1 DW	
380-207142-B-1-A MS	Matrix Spike	Total/NA	Water	537.1 DW	
380-207142-C-1-A MSD	Matrix Spike Duplicate	Total/NA	Water	537.1 DW	

Prep Batch: 219211

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-207139-1	MOANALUA WELLS (331-223-TP202)	Total/NA	Drinking Water	533	
380-207139-2	FB: MOANALUA WELLS (331-223-TP202)	Total/NA	Drinking Water	533	
MBL 380-219211/20-A	Method Blank	Total/NA	Water	533	
LCS 380-219211/22-A	Lab Control Sample	Total/NA	Water	533	
MRL 380-219211/21-A	Lab Control Sample	Total/NA	Water	533	
380-207139-1 MS	MOANALUA WELLS (331-223-TP202)	Total/NA	Drinking Water	533	
380-207139-1 MSD	MOANALUA WELLS (331-223-TP202)	Total/NA	Drinking Water	533	

Analysis Batch: 219214

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-207139-1	MOANALUA WELLS (331-223-TP202)	Total/NA	Drinking Water	EPA 537.1 V2	219039
MBL 380-219039/19-A	Method Blank	Total/NA	Water	EPA 537.1 V2	219039
LCS 380-219039/21-A	Lab Control Sample	Total/NA	Water	EPA 537.1 V2	219039
MRL 380-219039/20-A	Lab Control Sample	Total/NA	Water	EPA 537.1 V2	219039
380-207142-B-1-A MS	Matrix Spike	Total/NA	Water	EPA 537.1 V2	219039
380-207142-C-1-A MSD	Matrix Spike Duplicate	Total/NA	Water	EPA 537.1 V2	219039

Analysis Batch: 219376

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-207139-2	FB: MOANALUA WELLS (331-223-TP202)	Total/NA	Drinking Water	EPA 537.1 V2	219039

Analysis Batch: 219383

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-207139-1	MOANALUA WELLS (331-223-TP202)	Total/NA	Drinking Water	533	219211
380-207139-2	FB: MOANALUA WELLS (331-223-TP202)	Total/NA	Drinking Water	533	219211
MBL 380-219211/20-A	Method Blank	Total/NA	Water	533	219211
LCS 380-219211/22-A	Lab Control Sample	Total/NA	Water	533	219211
MRL 380-219211/21-A	Lab Control Sample	Total/NA	Water	533	219211
380-207139-1 MS	MOANALUA WELLS (331-223-TP202)	Total/NA	Drinking Water	533	219211
380-207139-1 MSD	MOANALUA WELLS (331-223-TP202)	Total/NA	Drinking Water	533	219211

Lab Chronicle

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

Job ID: 380-207139-1
 SDG: PFAS: Moanalua Wells

Client Sample ID: MOANALUA WELLS (331-223-TP202)

Lab Sample ID: 380-207139-1

Date Collected: 04/06/26 10:03

Matrix: Drinking Water

Date Received: 04/08/26 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			219211	N8NE	EA POM	04/10/26 17:14
Total/NA	Analysis	533		1	219383	M7ML	EA POM	04/11/26 17:29
Total/NA	Prep	537.1 DW			219039	G9MN	EA POM	04/10/26 01:46
Total/NA	Analysis	EPA 537.1 V2		1	219214	Y5FM	EA POM	04/10/26 19:48

Client Sample ID: FB: MOANALUA WELLS (331-223-TP202)

Lab Sample ID: 380-207139-2

Date Collected: 04/06/26 10:03

Matrix: Drinking Water

Date Received: 04/08/26 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			219211	N8NE	EA POM	04/10/26 17:14
Total/NA	Analysis	533		1	219383	M7ML	EA POM	04/11/26 20:55
Total/NA	Prep	537.1 DW			219039	G9MN	EA POM	04/10/26 01:46
Total/NA	Analysis	EPA 537.1 V2		1	219376	Y5FM	EA POM	04/11/26 13:57

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: 380-207139-1
SDG: PFAS: Moanalua Wells

Laboratory: Eurofins Pomona

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

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

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

Method Summary

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

Job ID: 380-207139-1
SDG: PFAS: Moanalua Wells

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: 380-207139-1
SDG: PFAS: Moanalua Wells

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	PWSID Number
380-207139-1	MOANALUA WELLS (331-223-TP202)	Drinking Water	04/06/26 10:03	04/08/26 10:00	HI0000331
380-207139-2	FB: MOANALUA WELLS (331-223-TP202)	Drinking Water	04/06/26 10:03	04/08/26 10:00	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



Client Information		Lab PM: Lopez, Maria		Carrier Tracking No(s):		COC No: 380-207139 COC	
Client Contact: Kirik Iwamoto		Phone: +1 808 748 5840		State of Origin:		Page: Page 1 of 1	
Company: City & County of Honolulu		PWSID:		E-Mail: Maria.Lopez@et.eurofins.com		Job #:	
Address: 630 South Beretania Street, Chemistry Lab		City: Honolulu		State, Zip: HI, 96843		Preservation Codes:	
Phone: 808-748-5840 (tel)		PO #: C20525101 exp 05312023		Compliance Project: Δ No		M - Hexane	
Email: kiwamoto@hbws.org		WO #:		TAT Requested (days):		N - None	
Project Name: RED-HILL/HBWS sites Event Desc: RUSH Weekly Red Hill		Project #: 38001111		Sample Date Requested: 6-Apr-2026		O - AsNaO2	
Site:		SSOW#:		Sample Time: 1003		P - Na2O4S	
Sample Identification		Sample Date: 6-Apr-2026		Sample Time: 1003		Q - Na2SO3	
Moanalua Wells (331-223-TP202)		Sample Type (C=Comp, G=grab): G		Preservation Code: G		R - Na2SO3	
Matrix (Water, Sewage, Other): Water		Sample Date: 6-Apr-2026		Sample Time: 1003		S - H2SO4	
FB: Moanalua Wells (331-223-TP202)		Sample Date: 6-Apr-2026		Sample Time: 1003		T - TSP Dodecahydrate	
Possible Hazard Identification		Sample Date: 6-Apr-2026		Sample Time: 1003		U - Acetone	
<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 Date: 6-Apr-2026		Sample Time: 1003		V - MCAA	
Deliverable Requested: I, II, III, IV, Other (specify)		Sample Date: 6-Apr-2026		Sample Time: 1003		W - pH 4-5	
Empty Kit Relinquished by:		Sample Date: 6-Apr-2026		Sample Time: 1003		Y - Trioma	
Date/Time: 4/12/2026		Sample Date: 6-Apr-2026		Sample Time: 1003		Z - other (specify)	
Company: HBWS		Sample Date: 6-Apr-2026		Sample Time: 1003		Other:	
Date/Time: 4/12/2026		Sample Date: 6-Apr-2026		Sample Time: 1003		chlorinated	
Company: HBWS		Sample Date: 6-Apr-2026		Sample Time: 1003		Special Instructions/Note:	
Date/Time: 4/12/2026		Sample Date: 6-Apr-2026		Sample Time: 1003		chlorinated	
Company: HBWS		Sample Date: 6-Apr-2026		Sample Time: 1003		Total Number of containers	
Date/Time: 4/12/2026		Sample Date: 6-Apr-2026		Sample Time: 1003		53 - All Analytes	
Company: HBWS		Sample Date: 6-Apr-2026		Sample Time: 1003		525.2_PREC - (MOD) 525plus PLUS TICs	
Date/Time: 4/12/2026		Sample Date: 6-Apr-2026		Sample Time: 1003		57.1_DW_PREC - 57.1 Full List	
Company: HBWS		Sample Date: 6-Apr-2026		Sample Time: 1003		8015B_DRO_LL_C8 - HNL Ranges: C10-C24/C24-C36/C8-C18	
Date/Time: 4/12/2026		Sample Date: 6-Apr-2026		Sample Time: 1003		8015B_GRO_LL - (MOD) GRO	
Company: HBWS		Sample Date: 6-Apr-2026		Sample Time: 1003		8015B_GRO_LL - (MOD) GRO	
Date/Time: 4/12/2026		Sample Date: 6-Apr-2026		Sample Time: 1003		SUBCONTRACT - 825 PAH Physis LL (EAL) + TICs	
Company: HBWS		Sample Date: 6-Apr-2026		Sample Time: 1003		Perform MS/MSD (Yes or No)	
Date/Time: 4/12/2026		Sample Date: 6-Apr-2026		Sample Time: 1003		Field Filtered Sample (Yes or No)	
Company: HBWS		Sample Date: 6-Apr-2026		Sample Time: 1003		R A Q O A Y I	
Date/Time: 4/12/2026		Sample Date: 6-Apr-2026		Sample Time: 1003		1 1	
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Company: HBWS		Sample Date: 6-Apr-2026		Sample Time: 1003		1 1	
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Date/Time: 4/12/2026		Sample Date: 6-Apr-2026		Sample Time: 1003		1 1	

Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-207139-1
SDG Number: PFAS: Moanalua Wells

Login Number: 207139

List Number: 1

Creator: Gross, Drake

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	
ClO4 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	

