eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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City & County of Honolulu
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Public Service Bldg. Room 310
Honolulu, Hawaii 96843

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JOB DESCRIPTION

RED-HILL
PFAS: Aiea Gulch Wells Pump 2

JOB NUMBER

380-222440-1

Eurofins Pomona
941 Corporate Center Drive
Pomona CA 91768-2642

See page two for job notes and contact information.

my EOL

Job Notes

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

The test results in this report relate only to the samples as received by the laboratory and meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Drinking Water and Wastewater West, LLC Project Manager.

Compliance Statement

1. Laboratory is accredited in accordance with TNI 2016 Standards and ISO/IEC 17025:2017.
2. Laboratory certifies that the test results meet all TNI 2016 and ISO/IEC 17025:2017 requirements unless noted under the individual analysis
3. Test results relate only to the sample(s) tested.
4. This report shall not be reproduced except in full, without the written approval of the laboratory.
5. Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below. (DW,Water matrices)

Authorization

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Authorized for release by
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Definitions/Glossary

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

Job ID: 380-222440-1
SDG: PFAS: Aiea Gulch Wells Pump 2

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

Job Narrative
380-222440-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt
The samples were received on 7/1/2026 9:40 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.7°C.

PFAS
Method EPA 537.1 V2: PFAS results by 537.1 for AIEA GULCH WELLS PUMP 2 (331-202-TP072) (380-222440-1) collected on 06/29/26 are a resample for AIEA GULCH WELLS PUMP 2 (331-202-TP072) (380-221346-1) collected on 06/22/26. (XWB4)

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: 380-222440-1
SDG: PFAS: Aiea Gulch Wells Pump 2

Client Sample ID: AIEA GULCH WELLS PUMP 2 (331-202-TP072)

Lab Sample ID: 380-222440-1

No Detections.

Client Sample ID: FB: AIEA GULCH WELLS PUMP 2 (331-202-TP072)

Lab Sample ID: 380-222440-2

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: AIEA GULCH WELLS PUMP 2 (331-202-TP072)

Lab Sample ID: 380-222440-1

Date Collected: 06/29/26 11:14
Date Received: 07/01/26 09:40

Matrix: Drinking Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0		ng/L		07/01/26 16:11	07/02/26 12:21	1
9-Chlorohexadecafluoro-3-oxanonane--sulfonic acid(9Cl-PF3ONS)	<2.0		2.0		ng/L		07/01/26 16:11	07/02/26 12:21	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0		ng/L		07/01/26 16:11	07/02/26 12:21	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0		ng/L		07/01/26 16:11	07/02/26 12:21	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0		ng/L		07/01/26 16:11	07/02/26 12:21	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0		ng/L		07/01/26 16:11	07/02/26 12:21	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0		ng/L		07/01/26 16:11	07/02/26 12:21	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0		ng/L		07/01/26 16:11	07/02/26 12:21	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0		ng/L		07/01/26 16:11	07/02/26 12:21	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0		ng/L		07/01/26 16:11	07/02/26 12:21	1
Perfluorononanoic acid (PFNA)	<2.0		2.0		ng/L		07/01/26 16:11	07/02/26 12:21	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0		ng/L		07/01/26 16:11	07/02/26 12:21	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0		ng/L		07/01/26 16:11	07/02/26 12:21	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0		ng/L		07/01/26 16:11	07/02/26 12:21	1
Perfluorobutanoic acid (PFBA)	<2.0		2.0		ng/L		07/01/26 16:11	07/02/26 12:21	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0		ng/L		07/01/26 16:11	07/02/26 12:21	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0		ng/L		07/01/26 16:11	07/02/26 12:21	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0		ng/L		07/01/26 16:11	07/02/26 12:21	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		2.0		ng/L		07/01/26 16:11	07/02/26 12:21	1
Perfluoro (2-ethoxyethane) sulfonic aci (PFEESA)	<2.0		2.0		ng/L		07/01/26 16:11	07/02/26 12:21	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0		ng/L		07/01/26 16:11	07/02/26 12:21	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0		ng/L		07/01/26 16:11	07/02/26 12:21	1
Perfluoropentanoic acid (PFPeA)	<2.0		2.0		ng/L		07/01/26 16:11	07/02/26 12:21	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0		ng/L		07/01/26 16:11	07/02/26 12:21	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0		ng/L		07/01/26 16:11	07/02/26 12:21	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*107*		*50 - 200*	*07/01/26 16:11*	*07/02/26 12:21*	*1*
13C6 PFDA	*109*		*50 - 200*	*07/01/26 16:11*	*07/02/26 12:21*	*1*
13C5 PFHxA	*112*		*50 - 200*	*07/01/26 16:11*	*07/02/26 12:21*	*1*
13C4 PFHpA	*114*		*50 - 200*	*07/01/26 16:11*	*07/02/26 12:21*	*1*
13C8 PFOA	*109*		*50 - 200*	*07/01/26 16:11*	*07/02/26 12:21*	*1*
13C9 PFNA	*103*		*50 - 200*	*07/01/26 16:11*	*07/02/26 12:21*	*1*
13C7 PFUnA	*110*		*50 - 200*	*07/01/26 16:11*	*07/02/26 12:21*	*1*
13C2 PFDoA	*102*		*50 - 200*	*07/01/26 16:11*	*07/02/26 12:21*	*1*
13C4 PFBA	*108*		*50 - 200*	*07/01/26 16:11*	*07/02/26 12:21*	*1*
13C5 PFPeA	*114*		*50 - 200*	*07/01/26 16:11*	*07/02/26 12:21*	*1*
13C3 PFBS	*109*		*50 - 200*	*07/01/26 16:11*	*07/02/26 12:21*	*1*
13C3 PFHxS	*106*		*50 - 200*	*07/01/26 16:11*	*07/02/26 12:21*	*1*
13C8 PFOS	*105*		*50 - 200*	*07/01/26 16:11*	*07/02/26 12:21*	*1*
13C2-4:2-FTS	*111*		*50 - 200*	*07/01/26 16:11*	*07/02/26 12:21*	*1*
13C2-6:2-FTS	*110*		*50 - 200*	*07/01/26 16:11*	*07/02/26 12:21*	*1*

Client Sample ID: AIEA GULCH WELLS PUMP 2 (331-202-TP072)

Lab Sample ID: 380-222440-1

Date Collected: 06/29/26 11:14
Date Received: 07/01/26 09:40

Matrix: Drinking Water

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

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C2-8:2-FTS	*99*		*50 - 200*	*07/01/26 16:11*	*07/02/26 12:21*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0		ng/L		07/02/26 10:09	07/06/26 15:34	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0		ng/L		07/02/26 10:09	07/06/26 15:34	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0		ng/L		07/02/26 10:09	07/06/26 15:34	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		2.0		ng/L		07/02/26 10:09	07/06/26 15:34	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		2.0		ng/L		07/02/26 10:09	07/06/26 15:34	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0		ng/L		07/02/26 10:09	07/06/26 15:34	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0		ng/L		07/02/26 10:09	07/06/26 15:34	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0		ng/L		07/02/26 10:09	07/06/26 15:34	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0		ng/L		07/02/26 10:09	07/06/26 15:34	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0		ng/L		07/02/26 10:09	07/06/26 15:34	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0		ng/L		07/02/26 10:09	07/06/26 15:34	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0		ng/L		07/02/26 10:09	07/06/26 15:34	1
Perfluorononanoic acid (PFNA)	<2.0		2.0		ng/L		07/02/26 10:09	07/06/26 15:34	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0		ng/L		07/02/26 10:09	07/06/26 15:34	1
Perfluorotridecanoic acid (PFTrDA)	<2.0		2.0		ng/L		07/02/26 10:09	07/06/26 15:34	1
9-Chlorohexadecafluoro-3-oxanonane--sulfonic acid(9Cl-PF3ONS)	<2.0		2.0		ng/L		07/02/26 10:09	07/06/26 15:34	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0		ng/L		07/02/26 10:09	07/06/26 15:34	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0		ng/L		07/02/26 10:09	07/06/26 15:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*116*		*70 - 130*	*07/02/26 10:09*	*07/06/26 15:34*	*1*
13C2 PFHxA	*105*		*70 - 130*	*07/02/26 10:09*	*07/06/26 15:34*	*1*
13C2 PFDA	*105*		*70 - 130*	*07/02/26 10:09*	*07/06/26 15:34*	*1*
13C3-GenX	*105*		*70 - 130*	*07/02/26 10:09*	*07/06/26 15:34*	*1*

Client Sample ID: FB: AIEA GULCH WELLS PUMP 2 (331-202-TP072)

Lab Sample ID: 380-222440-2

Date Collected: 06/29/26 11:14
Date Received: 07/01/26 09:40

Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0		ng/L		07/01/26 16:11	07/02/26 12:31	1
9-Chlorohexadecafluoro-3-oxanonane--sulfonic acid(9Cl-PF3ONS)	<2.0		2.0		ng/L		07/01/26 16:11	07/02/26 12:31	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0		ng/L		07/01/26 16:11	07/02/26 12:31	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0		ng/L		07/01/26 16:11	07/02/26 12:31	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0		ng/L		07/01/26 16:11	07/02/26 12:31	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0		ng/L		07/01/26 16:11	07/02/26 12:31	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0		ng/L		07/01/26 16:11	07/02/26 12:31	1

Client Sample ID: FB: AIEA GULCH WELLS PUMP 2 (331-202-TP072)

Lab Sample ID: 380-222440-2

Date Collected: 06/29/26 11:14
Date Received: 07/01/26 09:40

Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0		ng/L		07/01/26 16:11	07/02/26 12:31	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0		ng/L		07/01/26 16:11	07/02/26 12:31	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0		ng/L		07/01/26 16:11	07/02/26 12:31	1
Perfluorononanoic acid (PFNA)	<2.0		2.0		ng/L		07/01/26 16:11	07/02/26 12:31	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0		ng/L		07/01/26 16:11	07/02/26 12:31	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0		ng/L		07/01/26 16:11	07/02/26 12:31	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0		ng/L		07/01/26 16:11	07/02/26 12:31	1
Perfluorobutanoic acid (PFBA)	<2.0		2.0		ng/L		07/01/26 16:11	07/02/26 12:31	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0		ng/L		07/01/26 16:11	07/02/26 12:31	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0		ng/L		07/01/26 16:11	07/02/26 12:31	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0		ng/L		07/01/26 16:11	07/02/26 12:31	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		2.0		ng/L		07/01/26 16:11	07/02/26 12:31	1
Perfluoro (2-ethoxyethane) sulfonic aci (PFEESA)	<2.0		2.0		ng/L		07/01/26 16:11	07/02/26 12:31	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0		ng/L		07/01/26 16:11	07/02/26 12:31	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0		ng/L		07/01/26 16:11	07/02/26 12:31	1
Perfluoropentanoic acid (PFPeA)	<2.0		2.0		ng/L		07/01/26 16:11	07/02/26 12:31	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0		ng/L		07/01/26 16:11	07/02/26 12:31	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0		ng/L		07/01/26 16:11	07/02/26 12:31	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*107*		*50 - 200*	*07/01/26 16:11*	*07/02/26 12:31*	*1*
13C6 PFDA	*108*		*50 - 200*	*07/01/26 16:11*	*07/02/26 12:31*	*1*
13C5 PFHxA	*110*		*50 - 200*	*07/01/26 16:11*	*07/02/26 12:31*	*1*
13C4 PFHpA	*111*		*50 - 200*	*07/01/26 16:11*	*07/02/26 12:31*	*1*
13C8 PFOA	*111*		*50 - 200*	*07/01/26 16:11*	*07/02/26 12:31*	*1*
13C9 PFNA	*104*		*50 - 200*	*07/01/26 16:11*	*07/02/26 12:31*	*1*
13C7 PFUnA	*100*		*50 - 200*	*07/01/26 16:11*	*07/02/26 12:31*	*1*
13C2 PFDoA	*104*		*50 - 200*	*07/01/26 16:11*	*07/02/26 12:31*	*1*
13C4 PFBA	*114*		*50 - 200*	*07/01/26 16:11*	*07/02/26 12:31*	*1*
13C5 PFPeA	*116*		*50 - 200*	*07/01/26 16:11*	*07/02/26 12:31*	*1*
13C3 PFBS	*109*		*50 - 200*	*07/01/26 16:11*	*07/02/26 12:31*	*1*
13C3 PFHxS	*108*		*50 - 200*	*07/01/26 16:11*	*07/02/26 12:31*	*1*
13C8 PFOS	*107*		*50 - 200*	*07/01/26 16:11*	*07/02/26 12:31*	*1*
13C2-4:2-FTS	*110*		*50 - 200*	*07/01/26 16:11*	*07/02/26 12:31*	*1*
13C2-6:2-FTS	*104*		*50 - 200*	*07/01/26 16:11*	*07/02/26 12:31*	*1*
13C2-8:2-FTS	*98*		*50 - 200*	*07/01/26 16:11*	*07/02/26 12:31*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0		ng/L		07/02/26 10:09	07/06/26 15:43	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0		ng/L		07/02/26 10:09	07/06/26 15:43	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0		ng/L		07/02/26 10:09	07/06/26 15:43	1
N-methylperfluorooctanesulfonamidoac etic acid (NMeFOSAA)	<2.0		2.0		ng/L		07/02/26 10:09	07/06/26 15:43	1

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

Job ID: 380-222440-1
SDG: PFAS: Aiea Gulch Wells Pump 2

Client Sample ID: FB: AIEA GULCH WELLS PUMP 2 (331-202-TP072)
Date Collected: 06/29/26 11:14
Date Received: 07/01/26 09:40

Lab Sample ID: 380-222440-2
Matrix: Water

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-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		2.0		ng/L		07/02/26 10:09	07/06/26 15:43	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0		ng/L		07/02/26 10:09	07/06/26 15:43	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0		ng/L		07/02/26 10:09	07/06/26 15:43	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0		ng/L		07/02/26 10:09	07/06/26 15:43	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0		ng/L		07/02/26 10:09	07/06/26 15:43	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0		ng/L		07/02/26 10:09	07/06/26 15:43	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0		ng/L		07/02/26 10:09	07/06/26 15:43	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0		ng/L		07/02/26 10:09	07/06/26 15:43	1
Perfluorononanoic acid (PFNA)	<2.0		2.0		ng/L		07/02/26 10:09	07/06/26 15:43	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0		ng/L		07/02/26 10:09	07/06/26 15:43	1
Perfluorotridecanoic acid (PFTrDA)	<2.0		2.0		ng/L		07/02/26 10:09	07/06/26 15:43	1
9-Chlorohexadecafluoro-3-oxanonane--sulfonic acid(9Cl-PF3ONS)	<2.0		2.0		ng/L		07/02/26 10:09	07/06/26 15:43	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0		ng/L		07/02/26 10:09	07/06/26 15:43	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0		ng/L		07/02/26 10:09	07/06/26 15:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*102*		*70 - 130*	*07/02/26 10:09*	*07/06/26 15:43*	*1*
13C2 PFHxA	*100*		*70 - 130*	*07/02/26 10:09*	*07/06/26 15:43*	*1*
13C2 PFDA	*102*		*70 - 130*	*07/02/26 10:09*	*07/06/26 15:43*	*1*
13C3-GenX	*89*		*70 - 130*	*07/02/26 10:09*	*07/06/26 15:43*	*1*

Action Limit Summary

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

Job ID: 380-222440-1
SDG: PFAS: Aiea Gulch Wells Pump 2

Client Sample ID: AIEA GULCH WELLS PUMP 2 (331-202-TP072)

Lab Sample ID: 380-222440-1

Compliance Check

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

Analyte	Result	Qualifier	Unit	EPAMCL Limit	RL	Method	Prep Type
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		ng/L	10	2.0	533	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	<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: AIEA GULCH WELLS PUMP 2 (331-202-TP072)

Lab Sample ID: 380-222440-2

Compliance Check

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

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

Surrogate Summary

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

Job ID: 380-222440-1
SDG: PFAS: Aiea Gulch Wells Pump 2

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

Matrix: Drinking Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	d5NEFOS (70-130)	PFHxA (70-130)	PFDA (70-130)	GenX (70-130)
380-222440-1	AIEA GULCH WELLS PUMP 2 (	116	105	105	105

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

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	d5NEFOS (70-130)	PFHxA (70-130)	PFDA (70-130)	GenX (70-130)
380-222428-B-1-A MS	Matrix Spike	101	104	103	104
380-222428-C-1-A MSD	Matrix Spike Duplicate	108	104	101	103
380-222440-2	FB: AIEA GULCH WELLS PUMP 2 (331-202-TP072)	102	100	102	89
LCS 380-237516/21-A	Lab Control Sample	104	103	101	94
MBL 380-237516/19-A	Method Blank	119	108	111	106
MRL 380-237516/20-A	Lab Control Sample	110	106	103	96

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: 380-222440-1
SDG: PFAS: Aiea Gulch Wells Pump 2

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)	PFDoA (50-200)
380-222440-1	AIEA GULCH WELLS PUMP 2 (	107	109	112	114	109	103	110	102

		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)
380-222440-1	AIEA GULCH WELLS PUMP 2 (	108	114	109	106	105	111	110	99

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

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)	PFDoA (50-200)
380-222428-E-1-A MS	Matrix Spike	108	107	100	104	106	104	104	110
380-222428-F-1-A MSD	Matrix Spike Duplicate	121	115	113	113	117	114	113	118
380-222440-2	FB: AIEA GULCH WELLS PUMP 2 (331-202-TP072)	107	108	110	111	111	104	100	104
LCS 380-237361/22-A	Lab Control Sample	124	123	117	119	124	116	123	132
MBL 380-237361/20-A	Method Blank	112	112	111	116	115	112	107	118
MBL 380-237361/20-A	Method Blank	114	116	122	119	118	119	114	112
MRL 380-237361/21-A	Lab Control Sample	115	116	117	118	121	118	116	123

		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)
380-222428-E-1-A MS	Matrix Spike	107	100	96	94	103	83	80	85
380-222428-F-1-A MSD	Matrix Spike Duplicate	116	111	105	101	108	90	87	91
380-222440-2	FB: AIEA GULCH WELLS PUMP 2 (331-202-TP072)	114	116	109	108	107	110	104	98
LCS 380-237361/22-A	Lab Control Sample	117	108	107	107	114	90	89	97
MBL 380-237361/20-A	Method Blank	113	105	104	106	111	95	88	96
MBL 380-237361/20-A	Method Blank	114	116	116	110	116	118	113	117
MRL 380-237361/21-A	Lab Control Sample	120	116	109	113	118	103	102	97

Surrogate Legend

Isotope Dilution Summary

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

Job ID: 380-222440-1
SDG: PFAS: Aiea Gulch Wells Pump 2

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

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

Lab Sample ID: MBL 380-237361/20-A
Matrix: Water
Analysis Batch: 237465

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 237361

Analyte	MBL Result	MBL Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<0.29		2.0		ng/L		07/01/26 16:11	07/02/26 06:57	1
9-Chlorohexadecafluoro-3-oxanonane--sulfonic acid(9Cl-PF3ONS)	<0.29		2.0		ng/L		07/01/26 16:11	07/02/26 06:57	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.59		2.0		ng/L		07/01/26 16:11	07/02/26 06:57	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<0.98		2.0		ng/L		07/01/26 16:11	07/02/26 06:57	1
Perfluorobutanesulfonic acid (PFBS)	<0.36		2.0		ng/L		07/01/26 16:11	07/02/26 06:57	1
Perfluorodecanoic acid (PFDA)	<0.30		2.0		ng/L		07/01/26 16:11	07/02/26 06:57	1
Perfluorododecanoic acid (PFDoA)	<0.53		2.0		ng/L		07/01/26 16:11	07/02/26 06:57	1
Perfluoroheptanoic acid (PFHpA)	<0.38		2.0		ng/L		07/01/26 16:11	07/02/26 06:57	1
Perfluorohexanesulfonic acid (PFHxS)	<0.31		2.0		ng/L		07/01/26 16:11	07/02/26 06:57	1
Perfluorohexanoic acid (PFHxA)	<0.45		2.0		ng/L		07/01/26 16:11	07/02/26 06:57	1
Perfluorononanoic acid (PFNA)	<0.39		2.0		ng/L		07/01/26 16:11	07/02/26 06:57	1
Perfluorooctanesulfonic acid (PFOS)	<0.42		2.0		ng/L		07/01/26 16:11	07/02/26 06:57	1
Perfluorooctanoic acid (PFOA)	<0.37		2.0		ng/L		07/01/26 16:11	07/02/26 06:57	1
Perfluoroundecanoic acid (PFUnA)	<0.41		2.0		ng/L		07/01/26 16:11	07/02/26 06:57	1
Perfluorobutanoic acid (PFBA)	<0.68		2.0		ng/L		07/01/26 16:11	07/02/26 06:57	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<0.37		2.0		ng/L		07/01/26 16:11	07/02/26 06:57	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<0.36		2.0		ng/L		07/01/26 16:11	07/02/26 06:57	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<0.47		2.0		ng/L		07/01/26 16:11	07/02/26 06:57	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.46		2.0		ng/L		07/01/26 16:11	07/02/26 06:57	1
Perfluoro (2-ethoxyethane) sulfonic aci (PFEESA)	<0.24		2.0		ng/L		07/01/26 16:11	07/02/26 06:57	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.45		2.0		ng/L		07/01/26 16:11	07/02/26 06:57	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.15		2.0		ng/L		07/01/26 16:11	07/02/26 06:57	1
Perfluoropentanoic acid (PFPeA)	<0.37		2.0		ng/L		07/01/26 16:11	07/02/26 06:57	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.35		2.0		ng/L		07/01/26 16:11	07/02/26 06:57	1
Perfluoropentanesulfonic acid (PFPeS)	<0.38		2.0		ng/L		07/01/26 16:11	07/02/26 06:57	1

Isotope Dilution	*MBL %Recovery*	*MBL Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*112*		*50 - 200*	*07/01/26 16:11*	*07/02/26 06:57*	*1*
13C6 PFDA	*112*		*50 - 200*	*07/01/26 16:11*	*07/02/26 06:57*	*1*
13C5 PFHxA	*111*		*50 - 200*	*07/01/26 16:11*	*07/02/26 06:57*	*1*
13C4 PFHpA	*116*		*50 - 200*	*07/01/26 16:11*	*07/02/26 06:57*	*1*
13C8 PFOA	*115*		*50 - 200*	*07/01/26 16:11*	*07/02/26 06:57*	*1*
13C9 PFNA	*112*		*50 - 200*	*07/01/26 16:11*	*07/02/26 06:57*	*1*
13C7 PFUnA	*107*		*50 - 200*	*07/01/26 16:11*	*07/02/26 06:57*	*1*
13C2 PFDoA	*118*		*50 - 200*	*07/01/26 16:11*	*07/02/26 06:57*	*1*
13C4 PFBA	*113*		*50 - 200*	*07/01/26 16:11*	*07/02/26 06:57*	*1*
13C5 PFPeA	*105*		*50 - 200*	*07/01/26 16:11*	*07/02/26 06:57*	*1*
13C3 PFBS	*104*		*50 - 200*	*07/01/26 16:11*	*07/02/26 06:57*	*1*
13C3 PFHxS	*106*		*50 - 200*	*07/01/26 16:11*	*07/02/26 06:57*	*1*
13C8 PFOS	*111*		*50 - 200*	*07/01/26 16:11*	*07/02/26 06:57*	*1*
13C2-4:2-FTS	*95*		*50 - 200*	*07/01/26 16:11*	*07/02/26 06:57*	*1*
13C2-6:2-FTS	*88*		*50 - 200*	*07/01/26 16:11*	*07/02/26 06:57*	*1*

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

Lab Sample ID: MBL 380-237361/20-A
Matrix: Water
Analysis Batch: 237465

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 237361

Isotope Dilution	MBL %Recovery	MBL Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2-8:2-FTS	96		50 - 200	07/01/26 16:11	07/02/26 06:57	1

Lab Sample ID: MBL 380-237361/20-A
Matrix: Water
Analysis Batch: 237548

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 237361

Analyte	MBL Result	MBL Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<0.29		2.0		ng/L		07/01/26 16:11	07/02/26 12:10	1
9-Chlorohexadecafluoro-3-oxanonane--sulfonic acid(9Cl-PF3ONS)	<0.29		2.0		ng/L		07/01/26 16:11	07/02/26 12:10	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.59		2.0		ng/L		07/01/26 16:11	07/02/26 12:10	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<0.98		2.0		ng/L		07/01/26 16:11	07/02/26 12:10	1
Perfluorobutanesulfonic acid (PFBS)	<0.36		2.0		ng/L		07/01/26 16:11	07/02/26 12:10	1
Perfluorodecanoic acid (PFDA)	<0.30		2.0		ng/L		07/01/26 16:11	07/02/26 12:10	1
Perfluorododecanoic acid (PFDoA)	<0.53		2.0		ng/L		07/01/26 16:11	07/02/26 12:10	1
Perfluoroheptanoic acid (PFHpA)	<0.38		2.0		ng/L		07/01/26 16:11	07/02/26 12:10	1
Perfluorohexanesulfonic acid (PFHxS)	<0.31		2.0		ng/L		07/01/26 16:11	07/02/26 12:10	1
Perfluorohexanoic acid (PFHxA)	<0.45		2.0		ng/L		07/01/26 16:11	07/02/26 12:10	1
Perfluorononanoic acid (PFNA)	<0.39		2.0		ng/L		07/01/26 16:11	07/02/26 12:10	1
Perfluorooctanesulfonic acid (PFOS)	<0.42		2.0		ng/L		07/01/26 16:11	07/02/26 12:10	1
Perfluorooctanoic acid (PFOA)	<0.37		2.0		ng/L		07/01/26 16:11	07/02/26 12:10	1
Perfluoroundecanoic acid (PFUnA)	<0.41		2.0		ng/L		07/01/26 16:11	07/02/26 12:10	1
Perfluorobutanoic acid (PFBA)	<0.68		2.0		ng/L		07/01/26 16:11	07/02/26 12:10	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<0.37		2.0		ng/L		07/01/26 16:11	07/02/26 12:10	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<0.36		2.0		ng/L		07/01/26 16:11	07/02/26 12:10	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<0.47		2.0		ng/L		07/01/26 16:11	07/02/26 12:10	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.46		2.0		ng/L		07/01/26 16:11	07/02/26 12:10	1
Perfluoro (2-ethoxyethane) sulfonic aci (PFEESA)	<0.24		2.0		ng/L		07/01/26 16:11	07/02/26 12:10	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.45		2.0		ng/L		07/01/26 16:11	07/02/26 12:10	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.15		2.0		ng/L		07/01/26 16:11	07/02/26 12:10	1
Perfluoropentanoic acid (PFPeA)	<0.37		2.0		ng/L		07/01/26 16:11	07/02/26 12:10	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.35		2.0		ng/L		07/01/26 16:11	07/02/26 12:10	1
Perfluoropentanesulfonic acid (PFPeS)	<0.38		2.0		ng/L		07/01/26 16:11	07/02/26 12:10	1

Isotope Dilution	MBL %Recovery	MBL Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	114		50 - 200	07/01/26 16:11	07/02/26 12:10	1
13C6 PFDA	116		50 - 200	07/01/26 16:11	07/02/26 12:10	1
13C5 PFHxA	122		50 - 200	07/01/26 16:11	07/02/26 12:10	1
13C4 PFHpA	119		50 - 200	07/01/26 16:11	07/02/26 12:10	1
13C8 PFOA	118		50 - 200	07/01/26 16:11	07/02/26 12:10	1
13C9 PFNA	119		50 - 200	07/01/26 16:11	07/02/26 12:10	1
13C7 PFUnA	114		50 - 200	07/01/26 16:11	07/02/26 12:10	1
13C2 PFDoA	112		50 - 200	07/01/26 16:11	07/02/26 12:10	1

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

Lab Sample ID: MBL 380-237361/20-A
Matrix: Water
Analysis Batch: 237548

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 237361

Isotope Dilution	MBL %Recovery	MBL Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	114		50 - 200	07/01/26 16:11	07/02/26 12:10	1
13C5 PFPeA	116		50 - 200	07/01/26 16:11	07/02/26 12:10	1
13C3 PFBS	116		50 - 200	07/01/26 16:11	07/02/26 12:10	1
13C3 PFHxS	110		50 - 200	07/01/26 16:11	07/02/26 12:10	1
13C8 PFOS	116		50 - 200	07/01/26 16:11	07/02/26 12:10	1
13C2-4:2-FTS	118		50 - 200	07/01/26 16:11	07/02/26 12:10	1
13C2-6:2-FTS	113		50 - 200	07/01/26 16:11	07/02/26 12:10	1
13C2-8:2-FTS	117		50 - 200	07/01/26 16:11	07/02/26 12:10	1

Lab Sample ID: LCS 380-237361/22-A
Matrix: Water
Analysis Batch: 237465

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 237361

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	118	109		ng/L		92	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	118	102		ng/L		86	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	118	111		ng/L		94	70 - 130
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	118	106		ng/L		89	70 - 130
Perfluorobutanesulfonic acid (PFBS)	118	110		ng/L		93	70 - 130
Perfluorodecanoic acid (PFDA)	118	106		ng/L		90	70 - 130
Perfluorododecanoic acid (PFDoA)	118	108		ng/L		91	70 - 130
Perfluoroheptanoic acid (PFHpA)	118	108		ng/L		91	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	118	113		ng/L		96	70 - 130
Perfluorohexanoic acid (PFHxA)	118	108		ng/L		91	70 - 130
Perfluorononanoic acid (PFNA)	118	115		ng/L		97	70 - 130
Perfluorooctanesulfonic acid (PFOS)	118	110		ng/L		93	70 - 130
Perfluorooctanoic acid (PFOA)	118	103		ng/L		87	70 - 130
Perfluoroundecanoic acid (PFUnA)	118	108		ng/L		92	70 - 130
Perfluorobutanoic acid (PFBA)	118	107		ng/L		90	70 - 130
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	118	109		ng/L		92	70 - 130
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	118	107		ng/L		91	70 - 130
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	118	116		ng/L		98	70 - 130
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	118	101		ng/L		85	70 - 130
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	118	111		ng/L		94	70 - 130
Perfluoro-3-methoxypropanoic acid (PFMPA)	118	110		ng/L		93	70 - 130
Perfluoro-4-methoxybutanoic acid (PFMBA)	118	112		ng/L		95	70 - 130
Perfluoropentanoic acid (PFPeA)	118	110		ng/L		93	70 - 130
Perfluoroheptanesulfonic acid (PFHpS)	118	108		ng/L		92	70 - 130

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

Lab Sample ID: LCS 380-237361/22-A
Matrix: Water
Analysis Batch: 237465

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 237361

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Perfluoropentanesulfonic acid (PFPeS)			118	113		ng/L		96	70 - 130		

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C3 HFPO-DA	*124*		*50 - 200*
13C6 PFDA	*123*		*50 - 200*
13C5 PFHxA	*117*		*50 - 200*
13C4 PFHpA	*119*		*50 - 200*
13C8 PFOA	*124*		*50 - 200*
13C9 PFNA	*116*		*50 - 200*
13C7 PFUnA	*123*		*50 - 200*
13C2 PFDoA	*132*		*50 - 200*
13C4 PFBA	*117*		*50 - 200*
13C5 PFPeA	*108*		*50 - 200*
13C3 PFBS	*107*		*50 - 200*
13C3 PFHxS	*107*		*50 - 200*
13C8 PFOS	*114*		*50 - 200*
13C2-4:2-FTS	*90*		*50 - 200*
13C2-6:2-FTS	*89*		*50 - 200*
13C2-8:2-FTS	*97*		*50 - 200*

Lab Sample ID: MRL 380-237361/21-A
Matrix: Water
Analysis Batch: 237465

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 237361

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)			1.97	2.00	J	ng/L		102	50 - 150		
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)			1.97	1.86	J	ng/L		94	50 - 150		
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)			1.97	1.97	J	ng/L		100	50 - 150		
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)			1.97	2.03	J	ng/L		103	50 - 150		
Perfluorobutanesulfonic acid (PFBS)			1.97	2.05	J	ng/L		104	50 - 150		
Perfluorodecanoic acid (PFDA)			1.97	2.01	J	ng/L		102	50 - 150		
Perfluorododecanoic acid (PFDoA)			1.97	2.12	J	ng/L		108	50 - 150		
Perfluoroheptanoic acid (PFHpA)			1.97	2.02	J	ng/L		102	50 - 150		
Perfluorohexanesulfonic acid (PFHxS)			1.97	2.10	J	ng/L		107	50 - 150		
Perfluorohexanoic acid (PFHxA)			1.97	1.94	J	ng/L		98	50 - 150		
Perfluorononanoic acid (PFNA)			1.97	2.12	J	ng/L		108	50 - 150		
Perfluorooctanesulfonic acid (PFOS)			1.97	1.99	J	ng/L		101	50 - 150		
Perfluorooctanoic acid (PFOA)			1.97	2.03	J	ng/L		103	50 - 150		
Perfluoroundecanoic acid (PFUnA)			1.97	2.17	J	ng/L		110	50 - 150		
Perfluorobutanoic acid (PFBA)			1.97	2.20	J	ng/L		112	50 - 150		
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)			1.97	2.13	J	ng/L		108	50 - 150		

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

Lab Sample ID: MRL 380-237361/21-A
Matrix: Water
Analysis Batch: 237465

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 237361

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)			1.97	2.04	J	ng/L		104	50 - 150		
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)			1.97	2.35	J	ng/L		119	50 - 150		
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)			1.97	1.96	J	ng/L		100	50 - 150		
Perfluoro (2-ethoxyethane) sulfoni acid (PFEESA)			1.97	2.01	J	ng/L		102	50 - 150		
Perfluoro-3-methoxypropanoic acid (PFMPA)			1.97	2.07	J	ng/L		105	50 - 150		
Perfluoro-4-methoxybutanoic acid (PFMBA)			1.97	2.06	J	ng/L		105	50 - 150		
Perfluoropentanoic acid (PFPeA)			1.97	2.09	J	ng/L		106	50 - 150		
Perfluoroheptanesulfonic acid (PFHpS)			1.97	2.01	J	ng/L		102	50 - 150		
Perfluoropentanesulfonic acid (PFPeS)			1.97	2.16	J	ng/L		110	50 - 150		

Isotope Dilution	*MRL %Recovery*	*MRL Qualifier*	*Limits*
13C3 HFPO-DA	*115*		*50 - 200*
13C6 PFDA	*116*		*50 - 200*
13C5 PFHxA	*117*		*50 - 200*
13C4 PFHpA	*118*		*50 - 200*
13C8 PFOA	*121*		*50 - 200*
13C9 PFNA	*118*		*50 - 200*
13C7 PFUnA	*116*		*50 - 200*
13C2 PFDoA	*123*		*50 - 200*
13C4 PFBA	*120*		*50 - 200*
13C5 PFPeA	*116*		*50 - 200*
13C3 PFBS	*109*		*50 - 200*
13C3 PFHxS	*113*		*50 - 200*
13C8 PFOS	*118*		*50 - 200*
13C2-4:2-FTS	*103*		*50 - 200*
13C2-6:2-FTS	*102*		*50 - 200*
13C2-8:2-FTS	*97*		*50 - 200*

Lab Sample ID: 380-222428-E-1-A MS
Matrix: Water
Analysis Batch: 237465

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 237361

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
11-Chloroeicosafluoro-3-oxaundec ane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		118	105		ng/L		88	70 - 130		
9-Chlorohexadecafluoro-3-oxanon ane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		118	104		ng/L		88	70 - 130		
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		118	115		ng/L		97	70 - 130		
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		118	109		ng/L		92	70 - 130		
Perfluorobutanesulfonic acid (PFBS)	<2.0		118	111		ng/L		94	70 - 130		
Perfluorodecanoic acid (PFDA)	<2.0		118	109		ng/L		92	70 - 130		
Perfluorododecanoic acid (PFDoA)	<2.0		118	112		ng/L		94	70 - 130		

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

Lab Sample ID: 380-222428-E-1-A MS
Matrix: Water
Analysis Batch: 237465

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 237361

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoroheptanoic acid (PFHpA)	<2.0		118	112		ng/L		94	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	<2.0		118	118		ng/L		99	70 - 130
Perfluorohexanoic acid (PFHxA)	<2.0		118	111		ng/L		93	70 - 130
Perfluorononanoic acid (PFNA)	<2.0		118	110		ng/L		93	70 - 130
Perfluorooctanesulfonic acid (PFOS)	<2.0		118	108		ng/L		91	70 - 130
Perfluorooctanoic acid (PFOA)	<2.0		118	108		ng/L		91	70 - 130
Perfluoroundecanoic acid (PFUnA)	<2.0		118	112		ng/L		95	70 - 130
Perfluorobutanoic acid (PFBA)	<2.0		118	110		ng/L		93	70 - 130
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		118	112		ng/L		94	70 - 130
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		118	110		ng/L		93	70 - 130
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		118	113		ng/L		95	70 - 130
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		118	107		ng/L		91	70 - 130
Perfluoro (2-ethoxyethane) sulfoni acid (PFEESA)	<2.0		118	114		ng/L		96	70 - 130
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		118	112		ng/L		94	70 - 130
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		118	109		ng/L		92	70 - 130
Perfluoropentanoic acid (PFPeA)	<2.0		118	110		ng/L		92	70 - 130
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		118	108		ng/L		91	70 - 130
Perfluoropentanesulfonic acid (PFPeS)	<2.0		118	115		ng/L		98	70 - 130

Isotope Dilution	*MS %Recovery*	*MS Qualifier*	*Limits*
13C3 HFPO-DA	*108*		*50 - 200*
13C6 PFDA	*107*		*50 - 200*
13C5 PFHxA	*100*		*50 - 200*
13C4 PFHpA	*104*		*50 - 200*
13C8 PFOA	*106*		*50 - 200*
13C9 PFNA	*104*		*50 - 200*
13C7 PFUnA	*104*		*50 - 200*
13C2 PFDoA	*110*		*50 - 200*
13C4 PFBA	*107*		*50 - 200*
13C5 PFPeA	*100*		*50 - 200*
13C3 PFBS	*96*		*50 - 200*
13C3 PFHxS	*94*		*50 - 200*
13C8 PFOS	*103*		*50 - 200*
13C2-4:2-FTS	*83*		*50 - 200*
13C2-6:2-FTS	*80*		*50 - 200*
13C2-8:2-FTS	*85*		*50 - 200*

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

Lab Sample ID: 380-222428-F-1-A MSD
Matrix: Water
Analysis Batch: 237465

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 237361

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		118	106		ng/L		89	70 - 130	1	30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		118	105		ng/L		89	70 - 130	2	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		118	117		ng/L		99	70 - 130	2	30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		118	110		ng/L		93	70 - 130	1	30
Perfluorobutanesulfonic acid (PFBS)	<2.0		118	113		ng/L		96	70 - 130	2	30
Perfluorodecanoic acid (PFDA)	<2.0		118	108		ng/L		91	70 - 130	1	30
Perfluorododecanoic acid (PFDoA)	<2.0		118	110		ng/L		93	70 - 130	2	30
Perfluoroheptanoic acid (PFHpA)	<2.0		118	113		ng/L		95	70 - 130	1	30
Perfluorohexanesulfonic acid (PFHxS)	<2.0		118	117		ng/L		99	70 - 130	0	30
Perfluorohexanoic acid (PFHxA)	<2.0		118	109		ng/L		92	70 - 130	2	30
Perfluorononanoic acid (PFNA)	<2.0		118	115		ng/L		97	70 - 130	5	30
Perfluorooctanesulfonic acid (PFOS)	<2.0		118	110		ng/L		93	70 - 130	2	30
Perfluorooctanoic acid (PFOA)	<2.0		118	107		ng/L		90	70 - 130	1	30
Perfluoroundecanoic acid (PFUnA)	<2.0		118	110		ng/L		93	70 - 130	2	30
Perfluorobutanoic acid (PFBA)	<2.0		118	113		ng/L		96	70 - 130	3	30
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		118	113		ng/L		95	70 - 130	1	30
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		118	114		ng/L		97	70 - 130	3	30
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		118	113		ng/L		95	70 - 130	0	30
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		118	115		ng/L		97	70 - 130	7	30
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<2.0		118	113		ng/L		96	70 - 130	0	30
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		118	114		ng/L		96	70 - 130	2	30
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		118	108		ng/L		91	70 - 130	1	30
Perfluoropentanoic acid (PFPeA)	<2.0		118	112		ng/L		94	70 - 130	2	30
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		118	112		ng/L		95	70 - 130	4	30
Perfluoropentanesulfonic acid (PFPeS)	<2.0		118	120		ng/L		101	70 - 130	4	30

Isotope Dilution	*MSD %Recovery*	*MSD Qualifier*	*Limits*
13C3 HFPO-DA	*121*		*50 - 200*
13C6 PFDA	*115*		*50 - 200*
13C5 PFHxA	*113*		*50 - 200*
13C4 PFHpA	*113*		*50 - 200*
13C8 PFOA	*117*		*50 - 200*
13C9 PFNA	*114*		*50 - 200*
13C7 PFUnA	*113*		*50 - 200*
13C2 PFDoA	*118*		*50 - 200*
13C4 PFBA	*116*		*50 - 200*
13C5 PFPeA	*111*		*50 - 200*

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

Lab Sample ID: 380-222428-F-1-A MSD
Matrix: Water
Analysis Batch: 237465

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 237361

Isotope Dilution	MSD %Recovery	MSD Qualifier	Limits
13C3 PFBS	105		50 - 200
13C3 PFHxS	101		50 - 200
13C8 PFOS	108		50 - 200
13C2-4:2-FTS	90		50 - 200
13C2-6:2-FTS	87		50 - 200
13C2-8:2-FTS	91		50 - 200

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

Lab Sample ID: MBL 380-237516/19-A
Matrix: Water
Analysis Batch: 237825

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 237516

Analyte	MBL Result	MBL Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<0.98		2.0		ng/L		07/02/26 10:09	07/06/26 12:40	1
Perfluorooctanesulfonic acid (PFOS)	<0.42		2.0		ng/L		07/02/26 10:09	07/06/26 12:40	1
Perfluoroundecanoic acid (PFUnA)	<0.41		2.0		ng/L		07/02/26 10:09	07/06/26 12:40	1
N-methylperfluorooctanesulfonamidoac etic acid (NMeFOSAA)	<0.57		2.0		ng/L		07/02/26 10:09	07/06/26 12:40	1
N-ethylperfluorooctanesulfonamidoacet c acid (NEtFOSAA)	<0.41		2.0		ng/L		07/02/26 10:09	07/06/26 12:40	1
Perfluorohexanoic acid (PFHxA)	<0.45		2.0		ng/L		07/02/26 10:09	07/06/26 12:40	1
Perfluorododecanoic acid (PFDoA)	<0.53		2.0		ng/L		07/02/26 10:09	07/06/26 12:40	1
Perfluorooctanoic acid (PFOA)	<0.37		2.0		ng/L		07/02/26 10:09	07/06/26 12:40	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0		ng/L		07/02/26 10:09	07/06/26 12:40	1
Perfluorohexanesulfonic acid (PFHxS)	<0.31		2.0		ng/L		07/02/26 10:09	07/06/26 12:40	1
Perfluorobutanesulfonic acid (PFBS)	<0.36		2.0		ng/L		07/02/26 10:09	07/06/26 12:40	1
Perfluoroheptanoic acid (PFHpA)	<0.38		2.0		ng/L		07/02/26 10:09	07/06/26 12:40	1
Perfluorononanoic acid (PFNA)	<0.39		2.0		ng/L		07/02/26 10:09	07/06/26 12:40	1
Perfluorotetradecanoic acid (PFTA)	<0.53		2.0		ng/L		07/02/26 10:09	07/06/26 12:40	1
Perfluorotridecanoic acid (PFTrDA)	<0.35		2.0		ng/L		07/02/26 10:09	07/06/26 12:40	1
9-Chlorohexadecafluoro-3-oxanonane- -sulfonic acid(9Cl-PF3ONS)	<0.30		2.0		ng/L		07/02/26 10:09	07/06/26 12:40	1
11-Chloroeicosafluoro-3-oxaundecane- 1-sulfonic acid (11Cl-PF3OUdS)	<0.29		2.0		ng/L		07/02/26 10:09	07/06/26 12:40	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.59		2.0		ng/L		07/02/26 10:09	07/06/26 12:40	1

Surrogate	MBL %Recovery	MBL Qualifier	Limits	Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	119		70 - 130	07/02/26 10:09	07/06/26 12:40	1
13C2 PFHxA	108		70 - 130	07/02/26 10:09	07/06/26 12:40	1
13C2 PFDA	111		70 - 130	07/02/26 10:09	07/06/26 12:40	1
13C3-GenX	106		70 - 130	07/02/26 10:09	07/06/26 12:40	1

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

Lab Sample ID: LCS 380-237516/21-A
Matrix: Water
Analysis Batch: 237825

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 237516

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	49.2	41.9		ng/L		85	70 - 130
Perfluorooctanesulfonic acid (PFOS)	49.2	46.7		ng/L		95	70 - 130
Perfluoroundecanoic acid (PFUnA)	49.2	47.3		ng/L		96	70 - 130
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	49.2	48.5		ng/L		99	70 - 130
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	49.2	46.5		ng/L		94	70 - 130
Perfluorohexanoic acid (PFHxA)	49.2	45.6		ng/L		93	70 - 130
Perfluorododecanoic acid (PFDoA)	49.2	48.5		ng/L		98	70 - 130
Perfluorooctanoic acid (PFOA)	49.2	48.6		ng/L		99	70 - 130
Perfluorodecanoic acid (PFDA)	49.2	45.6		ng/L		93	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	49.2	48.1		ng/L		98	70 - 130
Perfluorobutanesulfonic acid (PFBS)	49.2	50.0		ng/L		102	70 - 130
Perfluoroheptanoic acid (PFHpA)	49.2	45.9		ng/L		93	70 - 130
Perfluorononanoic acid (PFNA)	49.2	50.2		ng/L		102	70 - 130
Perfluorotetradecanoic acid (PFTA)	49.2	45.6		ng/L		93	70 - 130
Perfluorotridecanoic acid (PFTrDA)	49.2	49.8		ng/L		101	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	49.2	47.6		ng/L		97	70 - 130
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	49.2	46.4		ng/L		94	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	49.2	41.4		ng/L		84	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
d5-NEtFOSAA	*104*		*70 - 130*
13C2 PFHxA	*103*		*70 - 130*
13C2 PFDA	*101*		*70 - 130*
13C3-GenX	*94*		*70 - 130*

Lab Sample ID: MRL 380-237516/20-A
Matrix: Water
Analysis Batch: 237825

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 237516

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	1.97	1.82	J	ng/L		93	50 - 150
Perfluorooctanesulfonic acid (PFOS)	1.97	2.07	J	ng/L		105	50 - 150
Perfluoroundecanoic acid (PFUnA)	1.97	1.91	J	ng/L		97	50 - 150
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	1.97	1.92	J	ng/L		97	50 - 150
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.97	1.95	J	ng/L		99	50 - 150
Perfluorohexanoic acid (PFHxA)	1.97	1.88	J	ng/L		95	50 - 150

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

Lab Sample ID: MRL 380-237516/20-A
Matrix: Water
Analysis Batch: 237825

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 237516

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Perfluorododecanoic acid (PFDoA)			1.97	1.99	J	ng/L		101	50 - 150		
Perfluorooctanoic acid (PFOA)			1.97	2.11	J	ng/L		107	50 - 150		
Perfluorodecanoic acid (PFDA)			1.97	1.86	J	ng/L		95	50 - 150		
Perfluorohexanesulfonic acid (PFHxS)			1.97	2.17	J	ng/L		110	50 - 150		
Perfluorobutanesulfonic acid (PFBS)			1.97	2.26	J	ng/L		115	50 - 150		
Perfluoroheptanoic acid (PFHpA)			1.97	1.95	J	ng/L		99	50 - 150		
Perfluorononanoic acid (PFNA)			1.97	2.13	J	ng/L		108	50 - 150		
Perfluorotetradecanoic acid (PFTA)			1.97	1.92	J	ng/L		98	50 - 150		
Perfluorotridecanoic acid (PFTrDA)			1.97	2.12	J	ng/L		108	50 - 150		
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)			1.97	2.04	J	ng/L		104	50 - 150		
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)			1.97	1.91	J	ng/L		97	50 - 150		
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)			1.97	1.75	J	ng/L		89	50 - 150		

Surrogate	*MRL %Recovery*	*MRL Qualifier*	*Limits*
d5-NEtFOSAA	*110*		*70 - 130*
13C2 PFHxA	*106*		*70 - 130*
13C2 PFDA	*103*		*70 - 130*
13C3-GenX	*96*		*70 - 130*

Lab Sample ID: 380-222428-B-1-A MS
Matrix: Water
Analysis Batch: 237825

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 237516

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		24.7	19.3		ng/L		78	70 - 130		
Perfluorooctanesulfonic acid (PFOS)	<2.0		24.7	20.7		ng/L		84	70 - 130		
Perfluoroundecanoic acid (PFUnA)	<2.0		24.7	20.8		ng/L		84	70 - 130		
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		24.7	20.0		ng/L		81	70 - 130		
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		24.7	20.5		ng/L		83	70 - 130		
Perfluorohexanoic acid (PFHxA)	<2.0		24.7	21.4		ng/L		84	70 - 130		
Perfluorododecanoic acid (PFDoA)	<2.0		24.7	21.4		ng/L		87	70 - 130		
Perfluorooctanoic acid (PFOA)	<2.0		24.7	20.3		ng/L		82	70 - 130		
Perfluorodecanoic acid (PFDA)	<2.0		24.7	20.8		ng/L		84	70 - 130		
Perfluorohexanesulfonic acid (PFHxS)	<2.0		24.7	21.3		ng/L		84	70 - 130		
Perfluorobutanesulfonic acid (PFBS)	<2.0		24.7	21.1		ng/L		84	70 - 130		
Perfluoroheptanoic acid (PFHpA)	<2.0		24.7	22.1		ng/L		90	70 - 130		
Perfluorononanoic acid (PFNA)	<2.0		24.7	22.3		ng/L		90	70 - 130		

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

Lab Sample ID: 380-222428-B-1-A MS
Matrix: Water
Analysis Batch: 237825

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 237516

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorotetradecanoic acid (PFTA)	<2.0		24.7	20.3		ng/L		82	70 - 130
Perfluorotridecanoic acid (PFTrDA)	<2.0		24.7	23.4		ng/L		95	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		24.7	19.7		ng/L		80	70 - 130
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		24.7	19.9		ng/L		81	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		24.7	20.0		ng/L		81	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
d5-NEtFOSAA	*101*		*70 - 130*
13C2 PFHxA	*104*		*70 - 130*
13C2 PFDA	*103*		*70 - 130*
13C3-GenX	*104*		*70 - 130*

Lab Sample ID: 380-222428-C-1-A MSD
Matrix: Water
Analysis Batch: 237825

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 237516

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		24.7	23.3		ng/L		94	70 - 130	18	30
Perfluorooctanesulfonic acid (PFOS)	<2.0		24.7	24.7		ng/L		100	70 - 130	18	30
Perfluoroundecanoic acid (PFUnA)	<2.0		24.7	23.5		ng/L		96	70 - 130	12	30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		24.7	25.0		ng/L		101	70 - 130	22	30
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		24.7	26.8		ng/L		109	70 - 130	27	30
Perfluorohexanoic acid (PFHxA)	<2.0		24.7	25.2		ng/L		99	70 - 130	16	30
Perfluorododecanoic acid (PFDoA)	<2.0		24.7	24.6		ng/L		100	70 - 130	14	30
Perfluorooctanoic acid (PFOA)	<2.0		24.7	26.0		ng/L		105	70 - 130	25	30
Perfluorodecanoic acid (PFDA)	<2.0		24.7	25.0		ng/L		102	70 - 130	19	30
Perfluorohexanesulfonic acid (PFHxS)	<2.0		24.7	25.3		ng/L		100	70 - 130	17	30
Perfluorobutanesulfonic acid (PFBS)	<2.0		24.7	25.3		ng/L		101	70 - 130	18	30
Perfluoroheptanoic acid (PFHpA)	<2.0		24.7	25.6		ng/L		104	70 - 130	15	30
Perfluorononanoic acid (PFNA)	<2.0		24.7	26.3		ng/L		107	70 - 130	16	30
Perfluorotetradecanoic acid (PFTA)	<2.0		24.7	22.6		ng/L		92	70 - 130	11	30
Perfluorotridecanoic acid (PFTrDA)	<2.0		24.7	26.5		ng/L		108	70 - 130	13	30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		24.7	23.9		ng/L		97	70 - 130	19	30
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		24.7	23.7		ng/L		96	70 - 130	17	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		24.7	24.1		ng/L		98	70 - 130	19	30

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

Lab Sample ID: 380-222428-C-1-A MSD
Matrix: Water
Analysis Batch: 237825

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 237516

Surrogate	MSD %Recovery	MSD Qualifier	Limits
d5-NEtFOSAA	108		70 - 130
13C2 PFHxA	104		70 - 130
13C2 PFDA	101		70 - 130
13C3-GenX	103		70 - 130

LCMS

Prep Batch: 237361

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-222440-1	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	533	
380-222440-2	FB: AIEA GULCH WELLS PUMP 2 (331-202-TPC	Total/NA	Water	533	
MBL 380-237361/20-A	Method Blank	Total/NA	Water	533	
LCS 380-237361/22-A	Lab Control Sample	Total/NA	Water	533	
MRL 380-237361/21-A	Lab Control Sample	Total/NA	Water	533	
380-222428-E-1-A MS	Matrix Spike	Total/NA	Water	533	
380-222428-F-1-A MSD	Matrix Spike Duplicate	Total/NA	Water	533	

Analysis Batch: 237465

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MBL 380-237361/20-A	Method Blank	Total/NA	Water	533	237361
LCS 380-237361/22-A	Lab Control Sample	Total/NA	Water	533	237361
MRL 380-237361/21-A	Lab Control Sample	Total/NA	Water	533	237361
380-222428-E-1-A MS	Matrix Spike	Total/NA	Water	533	237361
380-222428-F-1-A MSD	Matrix Spike Duplicate	Total/NA	Water	533	237361

Prep Batch: 237516

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-222440-1	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	537.1 DW	
380-222440-2	FB: AIEA GULCH WELLS PUMP 2 (331-202-TPC	Total/NA	Water	537.1 DW	
MBL 380-237516/19-A	Method Blank	Total/NA	Water	537.1 DW	
LCS 380-237516/21-A	Lab Control Sample	Total/NA	Water	537.1 DW	
MRL 380-237516/20-A	Lab Control Sample	Total/NA	Water	537.1 DW	
380-222428-B-1-A MS	Matrix Spike	Total/NA	Water	537.1 DW	
380-222428-C-1-A MSD	Matrix Spike Duplicate	Total/NA	Water	537.1 DW	

Analysis Batch: 237548

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-222440-1	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	533	237361
380-222440-2	FB: AIEA GULCH WELLS PUMP 2 (331-202-TPC	Total/NA	Water	533	237361
MBL 380-237361/20-A	Method Blank	Total/NA	Water	533	237361

Analysis Batch: 237825

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-222440-1	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Total/NA	Drinking Water	EPA 537.1 V2	237516
380-222440-2	FB: AIEA GULCH WELLS PUMP 2 (331-202-TPC	Total/NA	Water	EPA 537.1 V2	237516
MBL 380-237516/19-A	Method Blank	Total/NA	Water	EPA 537.1 V2	237516
LCS 380-237516/21-A	Lab Control Sample	Total/NA	Water	EPA 537.1 V2	237516
MRL 380-237516/20-A	Lab Control Sample	Total/NA	Water	EPA 537.1 V2	237516
380-222428-B-1-A MS	Matrix Spike	Total/NA	Water	EPA 537.1 V2	237516
380-222428-C-1-A MSD	Matrix Spike Duplicate	Total/NA	Water	EPA 537.1 V2	237516

Lab Chronicle

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

Job ID: 380-222440-1
SDG: PFAS: Aiea Gulch Wells Pump 2

Client Sample ID: AIEA GULCH WELLS PUMP 2 (331-202-TP072)

Lab Sample ID: 380-222440-1

Date Collected: 06/29/26 11:14
Date Received: 07/01/26 09:40

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			237361	N8NE	EA POM	07/01/26 16:11
Total/NA	Analysis	533		1	237548	Y5FM	EA POM	07/02/26 12:21
Total/NA	Prep	537.1 DW			237516	LM3A	EA POM	07/02/26 10:09
Total/NA	Analysis	EPA 537.1 V2		1	237825	M7ML	EA POM	07/06/26 15:34

Client Sample ID: FB: AIEA GULCH WELLS PUMP 2 (331-202-TP072)

Lab Sample ID: 380-222440-2

Date Collected: 06/29/26 11:14
Date Received: 07/01/26 09:40

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			237361	N8NE	EA POM	07/01/26 16:11
Total/NA	Analysis	533		1	237548	Y5FM	EA POM	07/02/26 12:31
Total/NA	Prep	537.1 DW			237516	LM3A	EA POM	07/02/26 10:09
Total/NA	Analysis	EPA 537.1 V2		1	237825	M7ML	EA POM	07/06/26 15:43

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: 380-222440-1
SDG: PFAS: Aiea Gulch Wells Pump 2

Laboratory: Eurofins Pomona

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

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

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

Method Summary

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

Job ID: 380-222440-1
SDG: PFAS: Aiea Gulch Wells Pump 2

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: 380-222440-1
SDG: PFAS: Aiea Gulch Wells Pump 2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
380-222440-1	AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Drinking Water	06/29/26 11:14	07/01/26 09:40	Hawaii
380-222440-2	FB: AIEA GULCH WELLS PUMP 2 (331-202-TP072)	Water	06/29/26 11:14	07/01/26 09:40	Hawaii

Monrovia, CA (Suite 100)
750 Royal Oaks Drive Suite 100
Monrovia, CA 91016
Phone (626) 386-1100

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: bailey	Lab PM: Lopez, Maria	Carrier Tracking No(s):	COC No:
Client Contact: kirk Iwamoto	Phone: +1 808 748 5840	E-Mail: Maria.Lopez@et.eurofinsus.com	State of Origin:	Page: Page 1 of 1
Company: City & County of Honolulu	PWSID:			Job #:
Address: 630 South Beretania Street; Chemistry Lab	Due Date Requested:			
City: Honolulu	TAT Requested (days):			
State, Zip: HI, 96843	Compliance Project: Δ No			
Phone: 808-748-5840 (tel)	PO #: C20525101 exp 05312023			
Email: kiwamoto@hbws.org	WO #:			
Project Name: RED-HILL/HBWS sites Event Desc: RUSH Weekly Red Hill	Project #: 38001111			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

380-222440 COC

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUBCONTRACT - 625 PAH Physis LL (EAL) + TICs	8015B_GRO_LL - (MOD) GRO	8015B_DRO_LL_CS - HNL Ranges: C10-C24/C24-C36/C8-C18	525.2_PREC - (MOD) 525plus PLUS TICs	537.1_DW_PREC - 537.1 Full List	533 - All Analytes	Total Number of containers	Special Instructions/Note:
			Preservation Code:				R	A	Q	QA	Y	I		
Aiea Gulch Wells Pump 2 (331-202-TP072)	29-Jun-2026	1114	G	Water							3	3		chlorinated
FB: Aiea Gulch Wells Pump 2 (331-202-TP072)	29-Jun-2026	1114									1	1		

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment: FedEx 873789505408
[redacted]	Date/Time: 30 June 2026 1400	Company: HBWS	Received by: Mark Urrutia Date/Time: 7/1/26 940 Company: EEA
Relinquished by:	Date/Time:	Company	Received by: Date/Time: Company
Relinquished by:	Date/Time:	Company	Received by: Date/Time: Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: (631A) 3.7+0.1-3.7 gel-frozen

Ver: 01/16/2019

Monrovia, CA (Suite 100)
750 Royal Oaks Drive Suite 100
Monrovia, CA 91016
Phone (626) 386-1100

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: bailey	Lab PM: Lopez, Maria	Carrier Tracking No(s):	COC No:
Client Contact: kirk Iwamoto	Phone: +1 808 748 5840	E-Mail: Maria.Lopez@et.eurofinsus.com	State of Origin:	Page: Page 1 of 1
Company: City & County of Honolulu	PWSID:			Job #:
Address: 630 South Beretania Street; Chemistry Lab	Due Date Requested:			
City: Honolulu	TAT Requested (days):			
State, Zip: HI, 96843	Compliance Project: Δ No			
Phone: 808-748-5840 (tel)	PO #: C20525101 exp 05312023			
Email: kiwamoto@hbws.org	WO #:			
Project Name: RED-HILL/HBWS sites Event Desc: RUSH Weekly Red Hill	Project #: 38001111			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA; M - Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2O3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - pH 4-5; Y - Trizma; Z - other (specify); Other:

380-222440 COC

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUBCONTRACT - 625 PAH Physis LL (EAL) + TICs	8015B_GRO_LL - (MOD) GRO	8015B_DRO_LL_CS - HNL Ranges: C10-C24/C24-C36/C8-C18	525.2_PREC - (MOD) 525plus PLUS TICs	537.1_DW_PREC - 537.1 Full List	533 - All Analytes	Total Number of containers	Special Instructions/Note:
			Preservation Code:				R	A	Q	QA	Y	I		
Aiea Gulch Wells Pump 2 (331-202-TP072)	29-Jun-2026	1114	G	Water							3	3		chlorinated
FB: Aiea Gulch Wells Pump 2 (331-202-TP072)	29-Jun-2026	1114									1	1		

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by: | Date: | Time: | Method of Shipment: FedEx 873789505408

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
bailey	30 June 2026 1400	HBWS	Mark Urrutia	7/1/26 940	EEA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: (631A) 3.7+0.1-3.7 gel-frozen

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-222440-1
SDG Number: PFAS: Aiea Gulch Wells Pump 2

Login Number: 222440
List Number: 1
Creator: Del Rosario, Michael

List Source: Eurofins Pomona

Question	Answer	Comment
The coolers custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
Samples were received on ice.	True	
Cooler(s) Temperature is acceptable.	True	
Cooler(s) Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and is legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
ClO4 headspace requirement met (>50% for CA, >30% for other states).	True	
Samples do not require splitting or compositing.	True	
Container provided by EEA	True	