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ANALYTICAL REPORT

PREPARED FOR

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Generated 10/30/2026 3:57:37 PM

JOB DESCRIPTION

INTERA - Red-Hill-Incident
Kaonohi Wells II, Well #3 PFAS 533/537.1

JOB NUMBER

380-243483-1

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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Table of Contents

Cover Page 1
Table of Contents 3
Definitions/Glossary 4
Case Narrative 5
Detection Summary 6
Client Sample Results 7
Action Limit Summary 11
Surrogate Summary 12
Isotope Dilution Summary 13
QC Sample Results 14
QC Association Summary 31
Lab Chronicle 33
Certification Summary 34
Method Summary 35
Sample Summary 36
Chain of Custody 37
Receipt Checklists 38

Definitions/Glossary

Client: City & County of Honolulu
Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-243483-1
SDG: Kaonohi Wells II, Well #3 PFAS 533/537.1

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
380-243483-1

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 10/21/2026 10:18 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
PFAS results by EPA 537.1 for Kaonohi Wells II Well #3 (380-243843-1) collected on 10/20/26 are a resample for Kaonohi Wells II Well #3 (380-241165-1) collected on 10/08/26. (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: INTERA - Red-Hill-Incident

Job ID: 380-243483-1
SDG: Kaonohi Wells II, Well #3 PFAS 533/537.1

Client Sample ID: Kaonohi Wells II Well # 3 — Lab Sample ID: 380-243483-1

No Detections.

Client Sample ID: Kaonohi Wells II Well # 3 FB — Lab Sample ID: 380-243483-2

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: Kaonohi Wells II Well # 3

Date Collected: 10/20/26 09:50
Date Received: 10/21/26 10:18

Lab Sample ID: 380-243483-1

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		10/27/26 07:58	10/28/26 16:23	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0		ng/L		10/27/26 07:58	10/28/26 16:23	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0		ng/L		10/27/26 07:58	10/28/26 16:23	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0		ng/L		10/27/26 07:58	10/28/26 16:23	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0		ng/L		10/27/26 07:58	10/28/26 16:23	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0		ng/L		10/27/26 07:58	10/28/26 16:23	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0		ng/L		10/27/26 07:58	10/28/26 16:23	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0		ng/L		10/27/26 07:58	10/28/26 16:23	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0		ng/L		10/27/26 07:58	10/28/26 16:23	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0		ng/L		10/27/26 07:58	10/28/26 16:23	1
Perfluorononanoic acid (PFNA)	<2.0		2.0		ng/L		10/27/26 07:58	10/28/26 16:23	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0		ng/L		10/27/26 07:58	10/28/26 16:23	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0		ng/L		10/27/26 07:58	10/28/26 16:23	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0		ng/L		10/27/26 07:58	10/28/26 16:23	1
Perfluorobutanoic acid (PFBA)	<2.0		2.0		ng/L		10/27/26 07:58	10/28/26 16:23	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0		ng/L		10/27/26 07:58	10/28/26 16:23	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0		ng/L		10/27/26 07:58	10/28/26 16:23	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0		ng/L		10/27/26 07:58	10/28/26 16:23	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		2.0		ng/L		10/27/26 07:58	10/28/26 16:23	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<2.0		2.0		ng/L		10/27/26 07:58	10/28/26 16:23	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0		ng/L		10/27/26 07:58	10/28/26 16:23	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0		ng/L		10/27/26 07:58	10/28/26 16:23	1
Perfluoropentanoic acid (PFPeA)	<2.0		2.0		ng/L		10/27/26 07:58	10/28/26 16:23	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0		ng/L		10/27/26 07:58	10/28/26 16:23	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0		ng/L		10/27/26 07:58	10/28/26 16:23	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*97*		*50 - 200*	*10/27/26 07:58*	*10/28/26 16:23*	*1*
13C6 PFDA	*101*		*50 - 200*	*10/27/26 07:58*	*10/28/26 16:23*	*1*
13C5 PFHxA	*97*		*50 - 200*	*10/27/26 07:58*	*10/28/26 16:23*	*1*
13C4 PFHpA	*96*		*50 - 200*	*10/27/26 07:58*	*10/28/26 16:23*	*1*
13C8 PFOA	*102*		*50 - 200*	*10/27/26 07:58*	*10/28/26 16:23*	*1*
13C9 PFNA	*97*		*50 - 200*	*10/27/26 07:58*	*10/28/26 16:23*	*1*
13C7 PFUnA	*101*		*50 - 200*	*10/27/26 07:58*	*10/28/26 16:23*	*1*
13C2 PFDoA	*91*		*50 - 200*	*10/27/26 07:58*	*10/28/26 16:23*	*1*
13C4 PFBA	*103*		*50 - 200*	*10/27/26 07:58*	*10/28/26 16:23*	*1*
13C5 PFPeA	*105*		*50 - 200*	*10/27/26 07:58*	*10/28/26 16:23*	*1*
13C3 PFBS	*98*		*50 - 200*	*10/27/26 07:58*	*10/28/26 16:23*	*1*
13C3 PFHxS	*109*		*50 - 200*	*10/27/26 07:58*	*10/28/26 16:23*	*1*
13C8 PFOS	*106*		*50 - 200*	*10/27/26 07:58*	*10/28/26 16:23*	*1*

Client Sample ID: Kaonohi Wells II Well # 3

Lab Sample ID: 380-243483-1
Matrix: Water
Date Collected: 10/20/26 09:50
Date Received: 10/21/26 10:18

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	121		50 - 200	10/27/26 07:58	10/28/26 16:23	1
13C2-6:2-FTS	114		50 - 200	10/27/26 07:58	10/28/26 16:23	1
13C2-8:2-FTS	117		50 - 200	10/27/26 07:58	10/28/26 16:23	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		10/26/26 03:00	10/27/26 03:46	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0		ng/L		10/26/26 03:00	10/27/26 03:46	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0		ng/L		10/26/26 03:00	10/27/26 03:46	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		2.0		ng/L		10/26/26 03:00	10/27/26 03:46	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		2.0		ng/L		10/26/26 03:00	10/27/26 03:46	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0		ng/L		10/26/26 03:00	10/27/26 03:46	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0		ng/L		10/26/26 03:00	10/27/26 03:46	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0		ng/L		10/26/26 03:00	10/27/26 03:46	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0		ng/L		10/26/26 03:00	10/27/26 03:46	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0		ng/L		10/26/26 03:00	10/27/26 03:46	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0		ng/L		10/26/26 03:00	10/27/26 03:46	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0		ng/L		10/26/26 03:00	10/27/26 03:46	1
Perfluorononanoic acid (PFNA)	<2.0		2.0		ng/L		10/26/26 03:00	10/27/26 03:46	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0		ng/L		10/26/26 03:00	10/27/26 03:46	1
Perfluorotridecanoic acid (PFTrDA)	<2.0		2.0		ng/L		10/26/26 03:00	10/27/26 03:46	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0		ng/L		10/26/26 03:00	10/27/26 03:46	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0		ng/L		10/26/26 03:00	10/27/26 03:46	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0		ng/L		10/26/26 03:00	10/27/26 03:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	103		70 - 130	10/26/26 03:00	10/27/26 03:46	1
13C2 PFHxA	110		70 - 130	10/26/26 03:00	10/27/26 03:46	1
13C2 PFDA	109		70 - 130	10/26/26 03:00	10/27/26 03:46	1
13C3-GenX	101		70 - 130	10/26/26 03:00	10/27/26 03:46	1

Client Sample ID: Kaonohi Wells II Well # 3 FB

Lab Sample ID: 380-243483-2
Matrix: Water
Date Collected: 10/20/26 09:50
Date Received: 10/21/26 10:18

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		10/23/26 15:43	10/24/26 18:36	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0		ng/L		10/23/26 15:43	10/24/26 18:36	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0		ng/L		10/23/26 15:43	10/24/26 18:36	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0		ng/L		10/23/26 15:43	10/24/26 18:36	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0		ng/L		10/23/26 15:43	10/24/26 18:36	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0		ng/L		10/23/26 15:43	10/24/26 18:36	1

Client Sample ID: Kaonohi Wells II Well # 3 FB

Date Collected: 10/20/26 09:50
Date Received: 10/21/26 10:18

Lab Sample ID: 380-243483-2

Matrix: Water

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		10/23/26 15:43	10/24/26 18:36	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0		ng/L		10/23/26 15:43	10/24/26 18:36	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0		ng/L		10/23/26 15:43	10/24/26 18:36	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0		ng/L		10/23/26 15:43	10/24/26 18:36	1
Perfluorononanoic acid (PFNA)	<2.0		2.0		ng/L		10/23/26 15:43	10/24/26 18:36	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0		ng/L		10/23/26 15:43	10/24/26 18:36	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0		ng/L		10/23/26 15:43	10/24/26 18:36	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0		ng/L		10/23/26 15:43	10/24/26 18:36	1
Perfluorobutanoic acid (PFBA)	<2.0		2.0		ng/L		10/23/26 15:43	10/24/26 18:36	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0		ng/L		10/23/26 15:43	10/24/26 18:36	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0		ng/L		10/23/26 15:43	10/24/26 18:36	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0		ng/L		10/23/26 15:43	10/24/26 18:36	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		2.0		ng/L		10/23/26 15:43	10/24/26 18:36	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<2.0		2.0		ng/L		10/23/26 15:43	10/24/26 18:36	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0		ng/L		10/23/26 15:43	10/24/26 18:36	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0		ng/L		10/23/26 15:43	10/24/26 18:36	1
Perfluoropentanoic acid (PFPeA)	<2.0		2.0		ng/L		10/23/26 15:43	10/24/26 18:36	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0		ng/L		10/23/26 15:43	10/24/26 18:36	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0		ng/L		10/23/26 15:43	10/24/26 18:36	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*99*		*50 - 200*	*10/23/26 15:43*	*10/24/26 18:36*	*1*
13C6 PFDA	*114*		*50 - 200*	*10/23/26 15:43*	*10/24/26 18:36*	*1*
13C5 PFHxA	*108*		*50 - 200*	*10/23/26 15:43*	*10/24/26 18:36*	*1*
13C4 PFHpA	*107*		*50 - 200*	*10/23/26 15:43*	*10/24/26 18:36*	*1*
13C8 PFOA	*106*		*50 - 200*	*10/23/26 15:43*	*10/24/26 18:36*	*1*
13C9 PFNA	*103*		*50 - 200*	*10/23/26 15:43*	*10/24/26 18:36*	*1*
13C7 PFUnA	*103*		*50 - 200*	*10/23/26 15:43*	*10/24/26 18:36*	*1*
13C2 PFDoA	*105*		*50 - 200*	*10/23/26 15:43*	*10/24/26 18:36*	*1*
13C4 PFBA	*102*		*50 - 200*	*10/23/26 15:43*	*10/24/26 18:36*	*1*
13C5 PFPeA	*105*		*50 - 200*	*10/23/26 15:43*	*10/24/26 18:36*	*1*
13C3 PFBS	*110*		*50 - 200*	*10/23/26 15:43*	*10/24/26 18:36*	*1*
13C3 PFHxS	*107*		*50 - 200*	*10/23/26 15:43*	*10/24/26 18:36*	*1*
13C8 PFOS	*105*		*50 - 200*	*10/23/26 15:43*	*10/24/26 18:36*	*1*
13C2-4:2-FTS	*98*		*50 - 200*	*10/23/26 15:43*	*10/24/26 18:36*	*1*
13C2-6:2-FTS	*99*		*50 - 200*	*10/23/26 15:43*	*10/24/26 18:36*	*1*
13C2-8:2-FTS	*102*		*50 - 200*	*10/23/26 15:43*	*10/24/26 18:36*	*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		10/26/26 03:00	10/27/26 04:54	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0		ng/L		10/26/26 03:00	10/27/26 04:54	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0		ng/L		10/26/26 03:00	10/27/26 04:54	1

Client: City & County of Honolulu
Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-243483-1
SDG: Kaonohi Wells II, Well #3 PFAS 533/537.1

Client Sample ID: Kaonohi Wells II Well # 3 FB
Date Collected: 10/20/26 09:50
Date Received: 10/21/26 10:18

Lab Sample ID: 380-243483-2
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-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		2.0		ng/L		10/26/26 03:00	10/27/26 04:54	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		2.0		ng/L		10/26/26 03:00	10/27/26 04:54	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0		ng/L		10/26/26 03:00	10/27/26 04:54	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0		ng/L		10/26/26 03:00	10/27/26 04:54	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0		ng/L		10/26/26 03:00	10/27/26 04:54	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0		ng/L		10/26/26 03:00	10/27/26 04:54	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0		ng/L		10/26/26 03:00	10/27/26 04:54	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0		ng/L		10/26/26 03:00	10/27/26 04:54	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0		ng/L		10/26/26 03:00	10/27/26 04:54	1
Perfluorononanoic acid (PFNA)	<2.0		2.0		ng/L		10/26/26 03:00	10/27/26 04:54	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0		ng/L		10/26/26 03:00	10/27/26 04:54	1
Perfluorotridecanoic acid (PFTrDA)	<2.0		2.0		ng/L		10/26/26 03:00	10/27/26 04:54	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0		ng/L		10/26/26 03:00	10/27/26 04:54	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0		ng/L		10/26/26 03:00	10/27/26 04:54	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0		ng/L		10/26/26 03:00	10/27/26 04:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*100*		*70 - 130*	*10/26/26 03:00*	*10/27/26 04:54*	*1*
13C2 PFHxA	*105*		*70 - 130*	*10/26/26 03:00*	*10/27/26 04:54*	*1*
13C2 PFDA	*109*		*70 - 130*	*10/26/26 03:00*	*10/27/26 04:54*	*1*
13C3-GenX	*95*		*70 - 130*	*10/26/26 03:00*	*10/27/26 04:54*	*1*

Action Limit Summary

Client: City & County of Honolulu
Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-243483-1
SDG: Kaonohi Wells II, Well #3 PFAS 533/537.1

Client Sample ID: Kaonohi Wells II Well # 3 — Lab Sample ID: 380-243483-1

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: Kaonohi Wells II Well # 3 FB — Lab Sample ID: 380-243483-2

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: INTERA - Red-Hill-Incident

Job ID: 380-243483-1
SDG: Kaonohi Wells II, Well #3 PFAS 533/537.1

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

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		d5NEFOS	PFHxA	PFDA	GenX
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	(70-130)	(70-130)
380-243483-1	Kaonohi Wells II Well # 3	103	110	109	101
380-243483-1 MS	Kaonohi Wells II Well # 3	102	111	112	102
380-243483-1 MSD	Kaonohi Wells II Well # 3	101	104	106	96
380-243483-2	Kaonohi Wells II Well # 3 FB	100	105	109	95
LCS 380-261247/22-A	Lab Control Sample	102	104	111	94
MBL 380-261247/20-A	Method Blank	110	112	116	100
MRL 380-261247/21-A	Lab Control Sample	109	112	115	104

Surrogate Legend

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

Isotope Dilution Summary

Client: City & County of Honolulu
Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-243483-1
SDG: Kaonohi Wells II, Well #3 PFAS 533/537.1

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)
380-243483-1	Kaonohi Wells II Well # 3	97	101	97	96	102	97	101	91
380-243483-2	Kaonohi Wells II Well # 3 FB	99	114	108	107	106	103	103	105
380-243840-B-1-A MS	Matrix Spike	105	107	109	106	106	105	102	103
380-243840-C-1-A MSD	Matrix Spike Duplicate	107	116	104	111	108	105	109	110
380-244094-E-1-A MS	Matrix Spike	112	110	108	111	107	108	104	107
380-244094-F-1-A MSD	Matrix Spike Duplicate	102	94	102	102	101	104	116	100
LCS 380-260920/22-A	Lab Control Sample	100	107	100	102	100	101	99	100
LCS 380-261495/46-A	Lab Control Sample	108	105	100	106	104	103	102	108
MBL 380-260920/20-A	Method Blank	91	98	96	98	96	92	96	96
MBL 380-261495/44-A	Method Blank	90	97	94	95	95	92	96	90
MRL 380-260920/21-A	Lab Control Sample	104	108	104	106	101	102	101	105
MRL 380-261495/45-A	Lab Control Sample	96	101	103	103	106	104	109	101

		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)
380-243483-1	Kaonohi Wells II Well # 3	103	105	98	109	106	121	114	117
380-243483-2	Kaonohi Wells II Well # 3 FB	102	105	110	107	105	98	99	102
380-243840-B-1-A MS	Matrix Spike	106	108	107	107	103	98	99	101
380-243840-C-1-A MSD	Matrix Spike Duplicate	103	107	106	109	101	102	100	98
380-244094-E-1-A MS	Matrix Spike	104	109	100	110	106	109	108	108
380-244094-F-1-A MSD	Matrix Spike Duplicate	103	107	98	107	103	106	103	101
LCS 380-260920/22-A	Lab Control Sample	97	99	104	105	99	95	97	94
LCS 380-261495/46-A	Lab Control Sample	103	105	100	109	108	109	104	106
MBL 380-260920/20-A	Method Blank	99	100	111	110	103	111	105	100
MBL 380-261495/44-A	Method Blank	97	103	97	102	101	105	101	103
MRL 380-260920/21-A	Lab Control Sample	101	103	113	108	104	105	98	96
MRL 380-261495/45-A	Lab Control Sample	106	110	102	109	109	115	109	107

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

Lab Sample ID: MBL 380-260920/20-A
Matrix: Water
Analysis Batch: 261058

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 260920

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		10/23/26 15:43	10/24/26 15:16	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<0.30		2.0		ng/L		10/23/26 15:43	10/24/26 15:16	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.59		2.0		ng/L		10/23/26 15:43	10/24/26 15:16	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<0.98		2.0		ng/L		10/23/26 15:43	10/24/26 15:16	1
Perfluorobutanesulfonic acid (PFBS)	<0.36		2.0		ng/L		10/23/26 15:43	10/24/26 15:16	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0		ng/L		10/23/26 15:43	10/24/26 15:16	1
Perfluorododecanoic acid (PFDoA)	<0.53		2.0		ng/L		10/23/26 15:43	10/24/26 15:16	1
Perfluoroheptanoic acid (PFHpA)	<0.38		2.0		ng/L		10/23/26 15:43	10/24/26 15:16	1
Perfluorohexanesulfonic acid (PFHxS)	0.389	J	2.0		ng/L		10/23/26 15:43	10/24/26 15:16	1
Perfluorohexanoic acid (PFHxA)	<0.45		2.0		ng/L		10/23/26 15:43	10/24/26 15:16	1
Perfluorononanoic acid (PFNA)	<0.39		2.0		ng/L		10/23/26 15:43	10/24/26 15:16	1
Perfluorooctanesulfonic acid (PFOS)	<0.42		2.0		ng/L		10/23/26 15:43	10/24/26 15:16	1
Perfluorooctanoic acid (PFOA)	<0.37		2.0		ng/L		10/23/26 15:43	10/24/26 15:16	1
Perfluoroundecanoic acid (PFUnA)	<0.41		2.0		ng/L		10/23/26 15:43	10/24/26 15:16	1
Perfluorobutanoic acid (PFBA)	<0.68		2.0		ng/L		10/23/26 15:43	10/24/26 15:16	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<0.38		2.0		ng/L		10/23/26 15:43	10/24/26 15:16	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<0.36		2.0		ng/L		10/23/26 15:43	10/24/26 15:16	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<0.47		2.0		ng/L		10/23/26 15:43	10/24/26 15:16	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.46		2.0		ng/L		10/23/26 15:43	10/24/26 15:16	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<0.24		2.0		ng/L		10/23/26 15:43	10/24/26 15:16	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.45		2.0		ng/L		10/23/26 15:43	10/24/26 15:16	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.15		2.0		ng/L		10/23/26 15:43	10/24/26 15:16	1
Perfluoropentanoic acid (PFPeA)	<0.37		2.0		ng/L		10/23/26 15:43	10/24/26 15:16	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.35		2.0		ng/L		10/23/26 15:43	10/24/26 15:16	1
Perfluoropentanesulfonic acid (PFPeS)	<0.38		2.0		ng/L		10/23/26 15:43	10/24/26 15:16	1

Isotope Dilution	*MBL %Recovery*	*MBL Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*91*		*50 - 200*	*10/23/26 15:43*	*10/24/26 15:16*	*1*
13C6 PFDA	*98*		*50 - 200*	*10/23/26 15:43*	*10/24/26 15:16*	*1*
13C5 PFHxA	*96*		*50 - 200*	*10/23/26 15:43*	*10/24/26 15:16*	*1*
13C4 PFHpA	*98*		*50 - 200*	*10/23/26 15:43*	*10/24/26 15:16*	*1*
13C8 PFOA	*96*		*50 - 200*	*10/23/26 15:43*	*10/24/26 15:16*	*1*
13C9 PFNA	*92*		*50 - 200*	*10/23/26 15:43*	*10/24/26 15:16*	*1*
13C7 PFUnA	*96*		*50 - 200*	*10/23/26 15:43*	*10/24/26 15:16*	*1*
13C2 PFDoA	*96*		*50 - 200*	*10/23/26 15:43*	*10/24/26 15:16*	*1*
13C4 PFBA	*99*		*50 - 200*	*10/23/26 15:43*	*10/24/26 15:16*	*1*
13C5 PFPeA	*100*		*50 - 200*	*10/23/26 15:43*	*10/24/26 15:16*	*1*
13C3 PFBS	*111*		*50 - 200*	*10/23/26 15:43*	*10/24/26 15:16*	*1*
13C3 PFHxS	*110*		*50 - 200*	*10/23/26 15:43*	*10/24/26 15:16*	*1*

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

Lab Sample ID: MBL 380-260920/20-A
Matrix: Water
Analysis Batch: 261058

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 260920

Isotope Dilution	MBL %Recovery	MBL Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOS	103		50 - 200	10/23/26 15:43	10/24/26 15:16	1
13C2-4:2-FTS	111		50 - 200	10/23/26 15:43	10/24/26 15:16	1
13C2-6:2-FTS	105		50 - 200	10/23/26 15:43	10/24/26 15:16	1
13C2-8:2-FTS	100		50 - 200	10/23/26 15:43	10/24/26 15:16	1

Lab Sample ID: LCS 380-260920/22-A
Matrix: Water
Analysis Batch: 261058

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 260920

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	118	113		ng/L		96	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	118	115		ng/L		98	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	118	108		ng/L		92	70 - 130
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	118	109		ng/L		93	70 - 130
Perfluorobutanesulfonic acid (PFBS)	118	109		ng/L		93	70 - 130
Perfluorodecanoic acid (PFDA)	118	101		ng/L		86	70 - 130
Perfluorododecanoic acid (PFDoA)	118	108		ng/L		92	70 - 130
Perfluoroheptanoic acid (PFHpA)	118	102		ng/L		86	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	118	106		ng/L		90	70 - 130
Perfluorohexanoic acid (PFHxA)	118	106		ng/L		90	70 - 130
Perfluorononanoic acid (PFNA)	118	106		ng/L		90	70 - 130
Perfluorooctanesulfonic acid (PFOS)	118	112		ng/L		95	70 - 130
Perfluorooctanoic acid (PFOA)	118	104		ng/L		88	70 - 130
Perfluoroundecanoic acid (PFUnA)	118	111		ng/L		95	70 - 130
Perfluorobutanoic acid (PFBA)	118	110		ng/L		93	70 - 130
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	118	110		ng/L		93	70 - 130
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	118	105		ng/L		89	70 - 130
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	118	112		ng/L		95	70 - 130
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	118	96.9		ng/L		82	70 - 130
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	118	110		ng/L		94	70 - 130
Perfluoro-3-methoxypropanoic acid (PFMPA)	118	105		ng/L		89	70 - 130
Perfluoro-4-methoxybutanoic acid (PFMBA)	118	103		ng/L		88	70 - 130
Perfluoropentanoic acid (PFPeA)	118	107		ng/L		91	70 - 130
Perfluoroheptanesulfonic acid (PFHpS)	118	110		ng/L		93	70 - 130

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

Lab Sample ID: LCS 380-260920/22-A
Matrix: Water
Analysis Batch: 261058

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 260920

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Perfluoropentanesulfonic acid (PFPeS)			118	112		ng/L		95	70 - 130		

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C3 HFPO-DA	*100*		*50 - 200*
13C6 PFDA	*107*		*50 - 200*
13C5 PFHxA	*100*		*50 - 200*
13C4 PFHpA	*102*		*50 - 200*
13C8 PFOA	*100*		*50 - 200*
13C9 PFNA	*101*		*50 - 200*
13C7 PFUnA	*99*		*50 - 200*
13C2 PFDoA	*100*		*50 - 200*
13C4 PFBA	*97*		*50 - 200*
13C5 PFPeA	*99*		*50 - 200*
13C3 PFBS	*104*		*50 - 200*
13C3 PFHxS	*105*		*50 - 200*
13C8 PFOS	*99*		*50 - 200*
13C2-4:2-FTS	*95*		*50 - 200*
13C2-6:2-FTS	*97*		*50 - 200*
13C2-8:2-FTS	*94*		*50 - 200*

Lab Sample ID: MRL 380-260920/21-A
Matrix: Water
Analysis Batch: 261058

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 260920

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)			1.97	2.12	J	ng/L		107	50 - 150		
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)			1.97	1.94	J	ng/L		98	50 - 150		
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)			1.97	2.16	J	ng/L		109	50 - 150		
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)			1.97	2.25	J	ng/L		114	50 - 150		
Perfluorobutanesulfonic acid (PFBS)			1.97	2.15	J	ng/L		109	50 - 150		
Perfluorodecanoic acid (PFDA)			1.97	1.89	J	ng/L		96	50 - 150		
Perfluorododecanoic acid (PFDoA)			1.97	2.14	J	ng/L		108	50 - 150		
Perfluoroheptanoic acid (PFHpA)			1.97	1.93	J	ng/L		98	50 - 150		
Perfluorohexanesulfonic acid (PFHxS)			1.97	1.97	J	ng/L		100	50 - 150		
Perfluorohexanoic acid (PFHxA)			1.97	2.30	J	ng/L		116	50 - 150		
Perfluorononanoic acid (PFNA)			1.97	2.11	J	ng/L		107	50 - 150		
Perfluorooctanesulfonic acid (PFOS)			1.97	2.07	J	ng/L		105	50 - 150		
Perfluorooctanoic acid (PFOA)			1.97	2.16	J	ng/L		110	50 - 150		
Perfluoroundecanoic acid (PFUnA)			1.97	2.17	J	ng/L		110	50 - 150		
Perfluorobutanoic acid (PFBA)			1.97	2.10	J	ng/L		106	50 - 150		

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

Lab Sample ID: MRL 380-260920/21-A
Matrix: Water
Analysis Batch: 261058

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 260920

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	1.97	2.20	J	ng/L		112	50 - 150
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	1.97	1.98	J	ng/L		101	50 - 150
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	1.97	2.20	J	ng/L		112	50 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	1.97	2.14	J	ng/L		108	50 - 150
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	1.97	2.10	J	ng/L		106	50 - 150
Perfluoro-3-methoxypropanoic acid (PFMPA)	1.97	1.93	J	ng/L		98	50 - 150
Perfluoro-4-methoxybutanoic acid (PFMBA)	1.97	2.03	J	ng/L		103	50 - 150
Perfluoropentanoic acid (PFPeA)	1.97	2.10	J	ng/L		107	50 - 150
Perfluoroheptanesulfonic acid (PFHpS)	1.97	2.08	J	ng/L		105	50 - 150
Perfluoropentanesulfonic acid (PFPeS)	1.97	2.05	J	ng/L		104	50 - 150

Isotope Dilution	*MRL %Recovery*	*MRL Qualifier*	*Limits*
13C3 HFPO-DA	*104*		*50 - 200*
13C6 PFDA	*108*		*50 - 200*
13C5 PFHxA	*104*		*50 - 200*
13C4 PFHpA	*106*		*50 - 200*
13C8 PFOA	*101*		*50 - 200*
13C9 PFNA	*102*		*50 - 200*
13C7 PFUnA	*101*		*50 - 200*
13C2 PFDoA	*105*		*50 - 200*
13C4 PFBA	*101*		*50 - 200*
13C5 PFPeA	*103*		*50 - 200*
13C3 PFBS	*113*		*50 - 200*
13C3 PFHxS	*108*		*50 - 200*
13C8 PFOS	*104*		*50 - 200*
13C2-4:2-FTS	*105*		*50 - 200*
13C2-6:2-FTS	*98*		*50 - 200*
13C2-8:2-FTS	*96*		*50 - 200*

Lab Sample ID: 380-243840-B-1-A MS
Matrix: Water
Analysis Batch: 261058

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 260920

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		59.1	54.6		ng/L		92	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		59.1	52.0		ng/L		88	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		59.1	55.9		ng/L		95	70 - 130

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

Lab Sample ID: 380-243840-B-1-A MS
Matrix: Water
Analysis Batch: 261058

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 260920

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		59.1	55.2		ng/L		94	70 - 130
Perfluorobutanesulfonic acid (PFBS)	<2.0		59.1	54.8		ng/L		93	70 - 130
Perfluorodecanoic acid (PFDA)	<2.0		59.1	50.2		ng/L		85	70 - 130
Perfluorododecanoic acid (PFDoA)	<2.0		59.1	53.9		ng/L		91	70 - 130
Perfluoroheptanoic acid (PFHpA)	<2.0		59.1	49.7		ng/L		84	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	<2.0		59.1	51.2		ng/L		87	70 - 130
Perfluorohexanoic acid (PFHxA)	<2.0		59.1	52.2		ng/L		88	70 - 130
Perfluorononanoic acid (PFNA)	<2.0		59.1	53.4		ng/L		90	70 - 130
Perfluorooctanesulfonic acid (PFOS)	<2.0		59.1	54.4		ng/L		92	70 - 130
Perfluorooctanoic acid (PFOA)	<2.0		59.1	53.1		ng/L		90	70 - 130
Perfluoroundecanoic acid (PFUnA)	<2.0		59.1	54.4		ng/L		92	70 - 130
Perfluorobutanoic acid (PFBA)	<2.0		59.1	54.9		ng/L		93	70 - 130
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		59.1	53.0		ng/L		90	70 - 130
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		59.1	53.0		ng/L		90	70 - 130
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		59.1	53.5		ng/L		91	70 - 130
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		59.1	51.1		ng/L		87	70 - 130
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<2.0		59.1	56.3		ng/L		95	70 - 130
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		59.1	52.2		ng/L		88	70 - 130
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		59.1	54.0		ng/L		91	70 - 130
Perfluoropentanoic acid (PFPeA)	<2.0		59.1	53.4		ng/L		90	70 - 130
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		59.1	53.5		ng/L		91	70 - 130
Perfluoropentanesulfonic acid (PFPeS)	<2.0		59.1	53.8		ng/L		91	70 - 130

Isotope Dilution	*MS %Recovery*	*MS Qualifier*	*Limits*
13C3 HFPO-DA	*105*		*50 - 200*
13C6 PFDA	*107*		*50 - 200*
13C5 PFHxA	*109*		*50 - 200*
13C4 PFHpA	*106*		*50 - 200*
13C8 PFOA	*106*		*50 - 200*
13C9 PFNA	*105*		*50 - 200*
13C7 PFUnA	*102*		*50 - 200*
13C2 PFDoA	*103*		*50 - 200*
13C4 PFBA	*106*		*50 - 200*
13C5 PFPeA	*108*		*50 - 200*
13C3 PFBS	*107*		*50 - 200*
13C3 PFHxS	*107*		*50 - 200*
13C8 PFOS	*103*		*50 - 200*

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

Lab Sample ID: 380-243840-B-1-A MS
Matrix: Water
Analysis Batch: 261058

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 260920

Isotope Dilution	MS %Recovery	MS Qualifier	Limits
13C2-4:2-FTS	98		50 - 200
13C2-6:2-FTS	99		50 - 200
13C2-8:2-FTS	101		50 - 200

Lab Sample ID: 380-243840-C-1-A MSD
Matrix: Water
Analysis Batch: 261058

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 260920

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		59.1	56.6		ng/L		96	70 - 130	4	30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		59.1	54.7		ng/L		93	70 - 130	5	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		59.1	55.1		ng/L		93	70 - 130	1	30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		59.1	55.9		ng/L		95	70 - 130	1	30
Perfluorobutanesulfonic acid (PFBS)	<2.0		59.1	54.7		ng/L		93	70 - 130	0	30
Perfluorodecanoic acid (PFDA)	<2.0		59.1	48.9		ng/L		83	70 - 130	3	30
Perfluorododecanoic acid (PFDoA)	<2.0		59.1	54.2		ng/L		92	70 - 130	1	30
Perfluoroheptanoic acid (PFHpA)	<2.0		59.1	49.6		ng/L		84	70 - 130	0	30
Perfluorohexanesulfonic acid (PFHxS)	<2.0		59.1	50.9		ng/L		86	70 - 130	1	30
Perfluorohexanoic acid (PFHxA)	<2.0		59.1	59.5		ng/L		101	70 - 130	13	30
Perfluorononanoic acid (PFNA)	<2.0		59.1	55.9		ng/L		95	70 - 130	4	30
Perfluorooctanesulfonic acid (PFOS)	<2.0		59.1	55.0		ng/L		93	70 - 130	1	30
Perfluorooctanoic acid (PFOA)	<2.0		59.1	53.4		ng/L		90	70 - 130	1	30
Perfluoroundecanoic acid (PFUnA)	<2.0		59.1	54.5		ng/L		92	70 - 130	0	30
Perfluorobutanoic acid (PFBA)	<2.0		59.1	55.3		ng/L		94	70 - 130	1	30
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		59.1	56.8		ng/L		96	70 - 130	7	30
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		59.1	50.3		ng/L		85	70 - 130	5	30
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		59.1	58.0		ng/L		98	70 - 130	8	30
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		59.1	53.5		ng/L		91	70 - 130	5	30
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<2.0		59.1	54.3		ng/L		92	70 - 130	4	30
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		59.1	51.7		ng/L		88	70 - 130	1	30
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		59.1	53.2		ng/L		90	70 - 130	1	30
Perfluoropentanoic acid (PFPeA)	<2.0		59.1	51.7		ng/L		88	70 - 130	3	30
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		59.1	55.9		ng/L		95	70 - 130	4	30
Perfluoropentanesulfonic acid (PFPeS)	<2.0		59.1	51.9		ng/L		88	70 - 130	4	30

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

Isotope Dilution	MSD %Recovery	MSD Qualifier	Limits
13C3 HFPO-DA	107		50 - 200
13C6 PFDA	116		50 - 200
13C5 PFHxA	104		50 - 200
13C4 PFHpA	111		50 - 200
13C8 PFOA	108		50 - 200
13C9 PFNA	105		50 - 200
13C7 PFUnA	109		50 - 200
13C2 PFDoA	110		50 - 200
13C4 PFBA	103		50 - 200
13C5 PFPeA	107		50 - 200
13C3 PFBS	106		50 - 200
13C3 PFHxS	109		50 - 200
13C8 PFOS	101		50 - 200
13C2-4:2-FTS	102		50 - 200
13C2-6:2-FTS	100		50 - 200
13C2-8:2-FTS	98		50 - 200

Lab Sample ID: MBL 380-261495/44-A
Matrix: Water
Analysis Batch: 261880

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 261495

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		10/27/26 07:58	10/28/26 14:48	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<0.30		2.0		ng/L		10/27/26 07:58	10/28/26 14:48	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.59		2.0		ng/L		10/27/26 07:58	10/28/26 14:48	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<0.98		2.0		ng/L		10/27/26 07:58	10/28/26 14:48	1
Perfluorobutanesulfonic acid (PFBS)	<0.36		2.0		ng/L		10/27/26 07:58	10/28/26 14:48	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0		ng/L		10/27/26 07:58	10/28/26 14:48	1
Perfluorododecanoic acid (PFDoA)	<0.53		2.0		ng/L		10/27/26 07:58	10/28/26 14:48	1
Perfluoroheptanoic acid (PFHpA)	<0.38		2.0		ng/L		10/27/26 07:58	10/28/26 14:48	1
Perfluorohexanesulfonic acid (PFHxS)	<0.31		2.0		ng/L		10/27/26 07:58	10/28/26 14:48	1
Perfluorohexanoic acid (PFHxA)	<0.45		2.0		ng/L		10/27/26 07:58	10/28/26 14:48	1
Perfluorononanoic acid (PFNA)	<0.39		2.0		ng/L		10/27/26 07:58	10/28/26 14:48	1
Perfluorooctanesulfonic acid (PFOS)	<0.42		2.0		ng/L		10/27/26 07:58	10/28/26 14:48	1
Perfluorooctanoic acid (PFOA)	<0.37		2.0		ng/L		10/27/26 07:58	10/28/26 14:48	1
Perfluoroundecanoic acid (PFUnA)	<0.41		2.0		ng/L		10/27/26 07:58	10/28/26 14:48	1
Perfluorobutanoic acid (PFBA)	<0.68		2.0		ng/L		10/27/26 07:58	10/28/26 14:48	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<0.38		2.0		ng/L		10/27/26 07:58	10/28/26 14:48	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<0.36		2.0		ng/L		10/27/26 07:58	10/28/26 14:48	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<0.47		2.0		ng/L		10/27/26 07:58	10/28/26 14:48	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.46		2.0		ng/L		10/27/26 07:58	10/28/26 14:48	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<0.24		2.0		ng/L		10/27/26 07:58	10/28/26 14:48	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.45		2.0		ng/L		10/27/26 07:58	10/28/26 14:48	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.15		2.0		ng/L		10/27/26 07:58	10/28/26 14:48	1

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

Lab Sample ID: MBL 380-261495/44-A
Matrix: Water
Analysis Batch: 261880

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 261495

Analyte	MBL Result	MBL Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Perfluoropentanoic acid (PFPeA)	<0.37		2.0		ng/L		10/27/26 07:58	10/28/26 14:48	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.35		2.0		ng/L		10/27/26 07:58	10/28/26 14:48	1
Perfluoropentanesulfonic acid (PFPeS)	<0.38		2.0		ng/L		10/27/26 07:58	10/28/26 14:48	1

Isotope Dilution	*MBL %Recovery*	*MBL Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*90*		*50 - 200*	*10/27/26 07:58*	*10/28/26 14:48*	*1*
13C6 PFDA	*97*		*50 - 200*	*10/27/26 07:58*	*10/28/26 14:48*	*1*
13C5 PFHxA	*94*		*50 - 200*	*10/27/26 07:58*	*10/28/26 14:48*	*1*
13C4 PFHpA	*95*		*50 - 200*	*10/27/26 07:58*	*10/28/26 14:48*	*1*
13C8 PFOA	*95*		*50 - 200*	*10/27/26 07:58*	*10/28/26 14:48*	*1*
13C9 PFNA	*92*		*50 - 200*	*10/27/26 07:58*	*10/28/26 14:48*	*1*
13C7 PFUnA	*96*		*50 - 200*	*10/27/26 07:58*	*10/28/26 14:48*	*1*
13C2 PFDoA	*90*		*50 - 200*	*10/27/26 07:58*	*10/28/26 14:48*	*1*
13C4 PFBA	*97*		*50 - 200*	*10/27/26 07:58*	*10/28/26 14:48*	*1*
13C5 PFPeA	*103*		*50 - 200*	*10/27/26 07:58*	*10/28/26 14:48*	*1*
13C3 PFBS	*97*		*50 - 200*	*10/27/26 07:58*	*10/28/26 14:48*	*1*
13C3 PFHxS	*102*		*50 - 200*	*10/27/26 07:58*	*10/28/26 14:48*	*1*
13C8 PFOS	*101*		*50 - 200*	*10/27/26 07:58*	*10/28/26 14:48*	*1*
13C2-4:2-FTS	*105*		*50 - 200*	*10/27/26 07:58*	*10/28/26 14:48*	*1*
13C2-6:2-FTS	*101*		*50 - 200*	*10/27/26 07:58*	*10/28/26 14:48*	*1*
13C2-8:2-FTS	*103*		*50 - 200*	*10/27/26 07:58*	*10/28/26 14:48*	*1*

Lab Sample ID: LCS 380-261495/46-A
Matrix: Water
Analysis Batch: 261880

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 261495

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	107		ng/L		90	70 - 130		
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)			118	103		ng/L		87	70 - 130		
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)			118	95.4		ng/L		81	70 - 130		
Perfluorobutanesulfonic acid (PFBS)			118	110		ng/L		94	70 - 130		
Perfluorodecanoic acid (PFDA)			118	100		ng/L		85	70 - 130		
Perfluorododecanoic acid (PFDoA)			118	103		ng/L		88	70 - 130		
Perfluoroheptanoic acid (PFHpA)			118	97.6		ng/L		83	70 - 130		
Perfluorohexanesulfonic acid (PFHxS)			118	106		ng/L		90	70 - 130		
Perfluorohexanoic acid (PFHxA)			118	103		ng/L		87	70 - 130		
Perfluorononanoic acid (PFNA)			118	101		ng/L		86	70 - 130		
Perfluorooctanesulfonic acid (PFOS)			118	105		ng/L		89	70 - 130		
Perfluorooctanoic acid (PFOA)			118	100		ng/L		85	70 - 130		

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

Lab Sample ID: LCS 380-261495/46-A
Matrix: Water
Analysis Batch: 261880

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 261495

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoroundecanoic acid (PFUnA)	118	119		ng/L		101	70 - 130
Perfluorobutanoic acid (PFBA)	118	110		ng/L		93	70 - 130
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	118	108		ng/L		91	70 - 130
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	118	99.1		ng/L		84	70 - 130
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	118	108		ng/L		91	70 - 130
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	118	121		ng/L		103	70 - 130
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	118	107		ng/L		90	70 - 130
Perfluoro-3-methoxypropanoic acid (PFMPA)	118	109		ng/L		93	70 - 130
Perfluoro-4-methoxybutanoic acid (PFMBA)	118	109		ng/L		92	70 - 130
Perfluoropentanoic acid (PFPeA)	118	106		ng/L		90	70 - 130
Perfluoroheptanesulfonic acid (PFHpS)	118	105		ng/L		89	70 - 130
Perfluoropentanesulfonic acid (PFPeS)	118	108		ng/L		92	70 - 130

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C3 HFPO-DA	*108*		*50 - 200*
13C6 PFDA	*105*		*50 - 200*
13C5 PFHxA	*100*		*50 - 200*
13C4 PFHpA	*106*		*50 - 200*
13C8 PFOA	*104*		*50 - 200*
13C9 PFNA	*103*		*50 - 200*
13C7 PFUnA	*102*		*50 - 200*
13C2 PFDoA	*108*		*50 - 200*
13C4 PFBA	*103*		*50 - 200*
13C5 PFPeA	*105*		*50 - 200*
13C3 PFBS	*100*		*50 - 200*
13C3 PFHxS	*109*		*50 - 200*
13C8 PFOS	*108*		*50 - 200*
13C2-4:2-FTS	*109*		*50 - 200*
13C2-6:2-FTS	*104*		*50 - 200*
13C2-8:2-FTS	*106*		*50 - 200*

Lab Sample ID: MRL 380-261495/45-A
Matrix: Water
Analysis Batch: 261880

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 261495

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	1.97	1.78	J	ng/L		91	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	1.97	1.80	J	ng/L		91	50 - 150

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

Lab Sample ID: MRL 380-261495/45-A
Matrix: Water
Analysis Batch: 261880

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 261495

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)			1.97	1.83	J	ng/L		93	50 - 150		
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)			1.97	1.58	J	ng/L		80	50 - 150		
Perfluorobutanesulfonic acid (PFBS)			1.97	1.88	J	ng/L		96	50 - 150		
Perfluorodecanoic acid (PFDA)			1.97	2.04	J	ng/L		104	50 - 150		
Perfluorododecanoic acid (PFDoA)			1.97	1.96	J	ng/L		99	50 - 150		
Perfluoroheptanoic acid (PFHpA)			1.97	1.85	J	ng/L		94	50 - 150		
Perfluorohexanesulfonic acid (PFHxS)			1.97	1.76	J	ng/L		89	50 - 150		
Perfluorohexanoic acid (PFHxA)			1.97	1.76	J	ng/L		89	50 - 150		
Perfluorononanoic acid (PFNA)			1.97	1.83	J	ng/L		93	50 - 150		
Perfluorooctanesulfonic acid (PFOS)			1.97	1.87	J	ng/L		95	50 - 150		
Perfluorooctanoic acid (PFOA)			1.97	1.78	J	ng/L		91	50 - 150		
Perfluoroundecanoic acid (PFUnA)			1.97	1.87	J	ng/L		95	50 - 150		
Perfluorobutanoic acid (PFBA)			1.97	1.92	J	ng/L		98	50 - 150		
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)			1.97	1.95	J	ng/L		99	50 - 150		
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)			1.97	1.86	J	ng/L		95	50 - 150		
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)			1.97	1.81	J	ng/L		92	50 - 150		
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)			1.97	1.63	J	ng/L		83	50 - 150		
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)			1.97	1.77	J	ng/L		90	50 - 150		
Perfluoro-3-methoxypropanoic acid (PFMPA)			1.97	1.83	J	ng/L		93	50 - 150		
Perfluoro-4-methoxybutanoic acid (PFMBA)			1.97	1.82	J	ng/L		92	50 - 150		
Perfluoropentanoic acid (PFPeA)			1.97	1.96	J	ng/L		100	50 - 150		
Perfluoroheptanesulfonic acid (PFHpS)			1.97	1.83	J	ng/L		93	50 - 150		
Perfluoropentanesulfonic acid (PFPeS)			1.97	1.76	J	ng/L		89	50 - 150		

Isotope Dilution	*MRL %Recovery*	*MRL Qualifier*	*Limits*
13C3 HFPO-DA	*96*		*50 - 200*
13C6 PFDA	*101*		*50 - 200*
13C5 PFHxA	*103*		*50 - 200*
13C4 PFHpA	*103*		*50 - 200*
13C8 PFOA	*106*		*50 - 200*
13C9 PFNA	*104*		*50 - 200*
13C7 PFUnA	*109*		*50 - 200*
13C2 PFDoA	*101*		*50 - 200*
13C4 PFBA	*106*		*50 - 200*
13C5 PFPeA	*110*		*50 - 200*
13C3 PFBS	*102*		*50 - 200*
13C3 PFHxS	*109*		*50 - 200*

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

Lab Sample ID: MRL 380-261495/45-A
Matrix: Water
Analysis Batch: 261880

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 261495

Isotope Dilution	*MRL %Recovery*	*MRL Qualifier*	*Limits*
13C8 PFOS	*109*		*50 - 200*
13C2-4:2-FTS	*115*		*50 - 200*
13C2-6:2-FTS	*109*		*50 - 200*
13C2-8:2-FTS	*107*		*50 - 200*

Lab Sample ID: 380-244094-E-1-A MS
Matrix: Water
Analysis Batch: 261880

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 261495

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		118	110		ng/L		93	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		118	112		ng/L		95	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		118	107		ng/L		91	70 - 130
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		118	104		ng/L		88	70 - 130
Perfluorobutanesulfonic acid (PFBS)	<2.0		118	116		ng/L		98	70 - 130
Perfluorodecanoic acid (PFDA)	<2.0		118	109		ng/L		92	70 - 130
Perfluorododecanoic acid (PFDoA)	<2.0		118	111		ng/L		94	70 - 130
Perfluoroheptanoic acid (PFHpA)	<2.0		118	98.8		ng/L		84	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	<2.0		118	106		ng/L		89	70 - 130
Perfluorohexanoic acid (PFHxA)	<2.0		118	110		ng/L		93	70 - 130
Perfluorononanoic acid (PFNA)	<2.0		118	97.3		ng/L		82	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	117		ng/L		99	70 - 130
Perfluorobutanoic acid (PFBA)	<2.0		118	112		ng/L		95	70 - 130
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		118	105		ng/L		89	70 - 130
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		118	104		ng/L		88	70 - 130
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		118	107		ng/L		90	70 - 130
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		118	94.5		ng/L		80	70 - 130
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<2.0		118	104		ng/L		88	70 - 130
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		118	108		ng/L		91	70 - 130
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		118	108		ng/L		91	70 - 130
Perfluoropentanoic acid (PFPeA)	<2.0		118	106		ng/L		90	70 - 130
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		118	106		ng/L		90	70 - 130

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

Lab Sample ID: 380-244094-E-1-A MS
Matrix: Water
Analysis Batch: 261880

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 261495

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoropentanesulfonic acid (PFPeS)	<2.0		118	106		ng/L		89	70 - 130

Isotope Dilution	*MS %Recovery*	*MS Qualifier*	*Limits*
13C3 HFPO-DA	*112*		*50 - 200*
13C6 PFDA	*110*		*50 - 200*
13C5 PFHxA	*108*		*50 - 200*
13C4 PFHpA	*111*		*50 - 200*
13C8 PFOA	*107*		*50 - 200*
13C9 PFNA	*108*		*50 - 200*
13C7 PFUnA	*104*		*50 - 200*
13C2 PFDoA	*107*		*50 - 200*
13C4 PFBA	*104*		*50 - 200*
13C5 PFPeA	*109*		*50 - 200*
13C3 PFBS	*100*		*50 - 200*
13C3 PFHxS	*110*		*50 - 200*
13C8 PFOS	*106*		*50 - 200*
13C2-4:2-FTS	*109*		*50 - 200*
13C2-6:2-FTS	*108*		*50 - 200*
13C2-8:2-FTS	*108*		*50 - 200*

Lab Sample ID: 380-244094-F-1-A MSD
Matrix: Water
Analysis Batch: 261880

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 261495

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	114		ng/L		96	70 - 130	4	30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		118	113		ng/L		96	70 - 130	1	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		118	108		ng/L		91	70 - 130	1	30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		118	114		ng/L		96	70 - 130	9	30
Perfluorobutanesulfonic acid (PFBS)	<2.0		118	120		ng/L		101	70 - 130	3	30
Perfluorodecanoic acid (PFDA)	<2.0		118	123		ng/L		104	70 - 130	12	30
Perfluorododecanoic acid (PFDoA)	<2.0		118	119		ng/L		101	70 - 130	7	30
Perfluoroheptanoic acid (PFHpA)	<2.0		118	111		ng/L		94	70 - 130	11	30
Perfluorohexanesulfonic acid (PFHxS)	<2.0		118	109		ng/L		92	70 - 130	3	30
Perfluorohexanoic acid (PFHxA)	<2.0		118	111		ng/L		94	70 - 130	1	30
Perfluorononanoic acid (PFNA)	<2.0		118	107		ng/L		90	70 - 130	9	30
Perfluorooctanesulfonic acid (PFOS)	<2.0		118	109		ng/L		93	70 - 130	1	30
Perfluorooctanoic acid (PFOA)	<2.0		118	111		ng/L		94	70 - 130	3	30
Perfluoroundecanoic acid (PFUnA)	<2.0		118	107		ng/L		91	70 - 130	9	30
Perfluorobutanoic acid (PFBA)	<2.0		118	115		ng/L		97	70 - 130	3	30

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

Lab Sample ID: 380-244094-F-1-A MSD
Matrix: Water
Analysis Batch: 261880

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 261495

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		118	113		ng/L		95	70 - 130	7	30
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		118	106		ng/L		90	70 - 130	2	30
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		118	109		ng/L		92	70 - 130	2	30
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		118	111		ng/L		93	70 - 130	16	30
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<2.0		118	107		ng/L		90	70 - 130	3	30
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		118	111		ng/L		94	70 - 130	3	30
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		118	111		ng/L		94	70 - 130	3	30
Perfluoropentanoic acid (PFPeA)	<2.0		118	106		ng/L		90	70 - 130	0	30
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		118	110		ng/L		93	70 - 130	4	30
Perfluoropentanesulfonic acid (PFPeS)	<2.0		118	108		ng/L		91	70 - 130	2	30

Isotope Dilution	*MSD %Recovery*	*MSD Qualifier*	*Limits*
13C3 HFPO-DA	*102*		*50 - 200*
13C6 PFDA	*94*		*50 - 200*
13C5 PFHxA	*102*		*50 - 200*
13C4 PFHpA	*102*		*50 - 200*
13C8 PFOA	*101*		*50 - 200*
13C9 PFNA	*104*		*50 - 200*
13C7 PFUnA	*116*		*50 - 200*
13C2 PFDoA	*100*		*50 - 200*
13C4 PFBA	*103*		*50 - 200*
13C5 PFPeA	*107*		*50 - 200*
13C3 PFBS	*98*		*50 - 200*
13C3 PFHxS	*107*		*50 - 200*
13C8 PFOS	*103*		*50 - 200*
13C2-4:2-FTS	*106*		*50 - 200*
13C2-6:2-FTS	*103*		*50 - 200*
13C2-8:2-FTS	*101*		*50 - 200*

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

Lab Sample ID: MBL 380-261247/20-A
Matrix: Water
Analysis Batch: 261368

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 261247

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		10/26/26 03:00	10/27/26 03:15	1
Perfluorooctanesulfonic acid (PFOS)	<0.42		2.0		ng/L		10/26/26 03:00	10/27/26 03:15	1
Perfluoroundecanoic acid (PFUnA)	<0.41		2.0		ng/L		10/26/26 03:00	10/27/26 03:15	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.57		2.0		ng/L		10/26/26 03:00	10/27/26 03:15	1

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

Lab Sample ID: MBL 380-261247/20-A
Matrix: Water
Analysis Batch: 261368

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 261247

Analyte	MBL Result	MBL Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.41		2.0		ng/L		10/26/26 03:00	10/27/26 03:15	1
Perfluorohexanoic acid (PFHxA)	<0.45		2.0		ng/L		10/26/26 03:00	10/27/26 03:15	1
Perfluorododecanoic acid (PFDoA)	<0.53		2.0		ng/L		10/26/26 03:00	10/27/26 03:15	1
Perfluorooctanoic acid (PFOA)	<0.37		2.0		ng/L		10/26/26 03:00	10/27/26 03:15	1
Perfluorodecanoic acid (PFDA)	<0.30		2.0		ng/L		10/26/26 03:00	10/27/26 03:15	1
Perfluorohexanesulfonic acid (PFHxS)	<0.31		2.0		ng/L		10/26/26 03:00	10/27/26 03:15	1
Perfluorobutanesulfonic acid (PFBS)	<0.36		2.0		ng/L		10/26/26 03:00	10/27/26 03:15	1
Perfluoroheptanoic acid (PFHpA)	<0.38		2.0		ng/L		10/26/26 03:00	10/27/26 03:15	1
Perfluorononanoic acid (PFNA)	<0.39		2.0		ng/L		10/26/26 03:00	10/27/26 03:15	1
Perfluorotetradecanoic acid (PFTA)	<0.53		2.0		ng/L		10/26/26 03:00	10/27/26 03:15	1
Perfluorotridecanoic acid (PFTrDA)	<0.35		2.0		ng/L		10/26/26 03:00	10/27/26 03:15	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<0.29		2.0		ng/L		10/26/26 03:00	10/27/26 03:15	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<0.29		2.0		ng/L		10/26/26 03:00	10/27/26 03:15	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.59		2.0		ng/L		10/26/26 03:00	10/27/26 03:15	1

Surrogate	*MBL %Recovery*	*MBL Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*110*		*70 - 130*	*10/26/26 03:00*	*10/27/26 03:15*	*1*
13C2 PFHxA	*112*		*70 - 130*	*10/26/26 03:00*	*10/27/26 03:15*	*1*
13C2 PFDA	*116*		*70 - 130*	*10/26/26 03:00*	*10/27/26 03:15*	*1*
13C3-GenX	*100*		*70 - 130*	*10/26/26 03:00*	*10/27/26 03:15*	*1*

Lab Sample ID: LCS 380-261247/22-A
Matrix: Water
Analysis Batch: 261368

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 261247

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	49.1	43.0		ng/L		87	70 - 130
Perfluorooctanesulfonic acid (PFOS)	49.1	48.8		ng/L		99	70 - 130
Perfluoroundecanoic acid (PFUnA)	49.1	51.6		ng/L		105	70 - 130
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	49.1	46.9		ng/L		95	70 - 130
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	49.1	45.2		ng/L		92	70 - 130
Perfluorohexanoic acid (PFHxA)	49.1	46.7		ng/L		95	70 - 130
Perfluorododecanoic acid (PFDoA)	49.1	52.0		ng/L		106	70 - 130
Perfluorooctanoic acid (PFOA)	49.1	48.6		ng/L		99	70 - 130
Perfluorodecanoic acid (PFDA)	49.1	51.2		ng/L		104	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	49.1	50.9		ng/L		104	70 - 130
Perfluorobutanesulfonic acid (PFBS)	49.1	50.3		ng/L		102	70 - 130
Perfluoroheptanoic acid (PFHpA)	49.1	46.6		ng/L		95	70 - 130
Perfluorononanoic acid (PFNA)	49.1	48.8		ng/L		99	70 - 130

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

Lab Sample ID: LCS 380-261247/22-A
Matrix: Water
Analysis Batch: 261368

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 261247

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Perfluorotetradecanoic acid (PFTA)			49.1	46.9		ng/L		95	70 - 130		
Perfluorotridecanoic acid (PFTrDA)			49.1	54.3		ng/L		110	70 - 130		
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)			49.1	49.6		ng/L		101	70 - 130		
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)			49.1	48.8		ng/L		99	70 - 130		
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)			49.1	44.0		ng/L		90	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
d5-NEtFOSAA	*102*		*70 - 130*
13C2 PFHxA	*104*		*70 - 130*
13C2 PFDA	*111*		*70 - 130*
13C3-GenX	*94*		*70 - 130*

Lab Sample ID: MRL 380-261247/21-A
Matrix: Water
Analysis Batch: 261368

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 261247

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)			1.96	2.07	J	ng/L		105	50 - 150		
Perfluorooctanesulfonic acid (PFOS)			1.96	2.06	J	ng/L		105	50 - 150		
Perfluoroundecanoic acid (PFUnA)			1.96	1.94	J	ng/L		99	50 - 150		
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)			1.96	2.07	J	ng/L		105	50 - 150		
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)			1.96	1.91	J	ng/L		97	50 - 150		
Perfluorohexanoic acid (PFHxA)			1.96	2.04	J	ng/L		104	50 - 150		
Perfluorododecanoic acid (PFDoA)			1.96	2.06	J	ng/L		105	50 - 150		
Perfluorooctanoic acid (PFOA)			1.96	1.95	J	ng/L		99	50 - 150		
Perfluorodecanoic acid (PFDA)			1.96	2.10	J	ng/L		107	50 - 150		
Perfluorohexanesulfonic acid (PFHxS)			1.96	2.05	J	ng/L		104	50 - 150		
Perfluorobutanesulfonic acid (PFBS)			1.96	2.04	J	ng/L		104	50 - 150		
Perfluoroheptanoic acid (PFHpA)			1.96	2.00	J	ng/L		102	50 - 150		
Perfluorononanoic acid (PFNA)			1.96	2.01	J	ng/L		103	50 - 150		
Perfluorotetradecanoic acid (PFTA)			1.96	1.48	J	ng/L		76	50 - 150		
Perfluorotridecanoic acid (PFTrDA)			1.96	2.17	J	ng/L		111	50 - 150		
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)			1.96	2.04	J	ng/L		104	50 - 150		

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

Lab Sample ID: MRL 380-261247/21-A
Matrix: Water
Analysis Batch: 261368

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 261247

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)			1.96	1.84	J	ng/L		94	50 - 150		
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)			1.96	1.92	J	ng/L		98	50 - 150		

Surrogate	*MRL %Recovery*	*MRL Qualifier*	*Limits*
d5-NEtFOSAA	*109*		*70 - 130*
13C2 PFHxA	*112*		*70 - 130*
13C2 PFDA	*115*		*70 - 130*
13C3-GenX	*104*		*70 - 130*

Lab Sample ID: 380-243483-1 MS
Matrix: Water
Analysis Batch: 261368

Client Sample ID: Kaonohi Wells II Well # 3
Prep Type: Total/NA
Prep Batch: 261247

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		49.2	46.2		ng/L		94	70 - 130		
Perfluorooctanesulfonic acid (PFOS)	<2.0		49.2	49.2		ng/L		100	70 - 130		
Perfluoroundecanoic acid (PFUnA)	<2.0		49.2	50.5		ng/L		103	70 - 130		
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		49.2	49.2		ng/L		100	70 - 130		
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		49.2	48.3		ng/L		98	70 - 130		
Perfluorohexanoic acid (PFHxA)	<2.0		49.2	48.8		ng/L		99	70 - 130		
Perfluorododecanoic acid (PFDoA)	<2.0		49.2	50.8		ng/L		103	70 - 130		
Perfluorooctanoic acid (PFOA)	<2.0		49.2	48.8		ng/L		99	70 - 130		
Perfluorodecanoic acid (PFDA)	<2.0		49.2	52.4		ng/L		107	70 - 130		
Perfluorohexanesulfonic acid (PFHxS)	<2.0		49.2	48.7		ng/L		99	70 - 130		
Perfluorobutanesulfonic acid (PFBS)	<2.0		49.2	48.8		ng/L		99	70 - 130		
Perfluoroheptanoic acid (PFHpA)	<2.0		49.2	49.2		ng/L		100	70 - 130		
Perfluorononanoic acid (PFNA)	<2.0		49.2	50.5		ng/L		103	70 - 130		
Perfluorotetradecanoic acid (PFTA)	<2.0		49.2	47.3		ng/L		96	70 - 130		
Perfluorotridecanoic acid (PFTrDA)	<2.0		49.2	53.4		ng/L		108	70 - 130		
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		49.2	49.7		ng/L		101	70 - 130		
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		49.2	47.4		ng/L		96	70 - 130		
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		49.2	47.5		ng/L		97	70 - 130		

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

Lab Sample ID: 380-243483-1 MS
Matrix: Water
Analysis Batch: 261368

Client Sample ID: Kaonohi Wells II Well # 3
Prep Type: Total/NA
Prep Batch: 261247

Surrogate	MS %Recovery	MS Qualifier	Limits
d5-NEtFOSAA	*102*		*70 - 130*
13C2 PFHxA	*111*		*70 - 130*
13C2 PFDA	*112*		*70 - 130*
13C3-GenX	*102*		*70 - 130*

Lab Sample ID: 380-243483-1 MSD
Matrix: Water
Analysis Batch: 261368

Client Sample ID: Kaonohi Wells II Well # 3
Prep Type: Total/NA
Prep Batch: 261247

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		49.2	46.6		ng/L		95	70 - 130	1	30
Perfluorooctanesulfonic acid (PFOS)	<2.0		49.2	48.6		ng/L		99	70 - 130	1	30
Perfluoroundecanoic acid (PFUnA)	<2.0		49.2	49.9		ng/L		101	70 - 130	1	30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		49.2	48.2		ng/L		98	70 - 130	2	30
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		49.2	47.3		ng/L		96	70 - 130	2	30
Perfluorohexanoic acid (PFHxA)	<2.0		49.2	46.8		ng/L		95	70 - 130	4	30
Perfluorododecanoic acid (PFDoA)	<2.0		49.2	51.0		ng/L		104	70 - 130	0	30
Perfluorooctanoic acid (PFOA)	<2.0		49.2	49.2		ng/L		100	70 - 130	1	30
Perfluorodecanoic acid (PFDA)	<2.0		49.2	53.1		ng/L		108	70 - 130	1	30
Perfluorohexanesulfonic acid (PFHxS)	<2.0		49.2	49.2		ng/L		100	70 - 130	1	30
Perfluorobutanesulfonic acid (PFBS)	<2.0		49.2	49.9		ng/L		101	70 - 130	2	30
Perfluoroheptanoic acid (PFHpA)	<2.0		49.2	48.1		ng/L		98	70 - 130	2	30
Perfluorononanoic acid (PFNA)	<2.0		49.2	49.8		ng/L		101	70 - 130	1	30
Perfluorotetradecanoic acid (PFTA)	<2.0		49.2	48.1		ng/L		98	70 - 130	2	30
Perfluorotridecanoic acid (PFTrDA)	<2.0		49.2	53.7		ng/L		109	70 - 130	1	30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		49.2	49.8		ng/L		101	70 - 130	0	30
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		49.2	48.4		ng/L		98	70 - 130	2	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		49.2	47.8		ng/L		97	70 - 130	1	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
d5-NEtFOSAA	*101*		*70 - 130*
13C2 PFHxA	*104*		*70 - 130*
13C2 PFDA	*106*		*70 - 130*
13C3-GenX	*96*		*70 - 130*

LCMS

Prep Batch: 260920

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-243483-2	Kaonohi Wells II Well # 3 FB	Total/NA	Water	533	
MBL 380-260920/20-A	Method Blank	Total/NA	Water	533	
LCS 380-260920/22-A	Lab Control Sample	Total/NA	Water	533	
MRL 380-260920/21-A	Lab Control Sample	Total/NA	Water	533	
380-243840-B-1-A MS	Matrix Spike	Total/NA	Water	533	
380-243840-C-1-A MSD	Matrix Spike Duplicate	Total/NA	Water	533	

Analysis Batch: 261058

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-243483-2	Kaonohi Wells II Well # 3 FB	Total/NA	Water	533	260920
MBL 380-260920/20-A	Method Blank	Total/NA	Water	533	260920
LCS 380-260920/22-A	Lab Control Sample	Total/NA	Water	533	260920
MRL 380-260920/21-A	Lab Control Sample	Total/NA	Water	533	260920
380-243840-B-1-A MS	Matrix Spike	Total/NA	Water	533	260920
380-243840-C-1-A MSD	Matrix Spike Duplicate	Total/NA	Water	533	260920

Prep Batch: 261247

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-243483-1	Kaonohi Wells II Well # 3	Total/NA	Water	537.1 DW	
380-243483-2	Kaonohi Wells II Well # 3 FB	Total/NA	Water	537.1 DW	
MBL 380-261247/20-A	Method Blank	Total/NA	Water	537.1 DW	
LCS 380-261247/22-A	Lab Control Sample	Total/NA	Water	537.1 DW	
MRL 380-261247/21-A	Lab Control Sample	Total/NA	Water	537.1 DW	
380-243483-1 MS	Kaonohi Wells II Well # 3	Total/NA	Water	537.1 DW	
380-243483-1 MSD	Kaonohi Wells II Well # 3	Total/NA	Water	537.1 DW	

Analysis Batch: 261368

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-243483-1	Kaonohi Wells II Well # 3	Total/NA	Water	EPA 537.1 V2	261247
380-243483-2	Kaonohi Wells II Well # 3 FB	Total/NA	Water	EPA 537.1 V2	261247
MBL 380-261247/20-A	Method Blank	Total/NA	Water	EPA 537.1 V2	261247
LCS 380-261247/22-A	Lab Control Sample	Total/NA	Water	EPA 537.1 V2	261247
MRL 380-261247/21-A	Lab Control Sample	Total/NA	Water	EPA 537.1 V2	261247
380-243483-1 MS	Kaonohi Wells II Well # 3	Total/NA	Water	EPA 537.1 V2	261247
380-243483-1 MSD	Kaonohi Wells II Well # 3	Total/NA	Water	EPA 537.1 V2	261247

Prep Batch: 261495

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-243483-1	Kaonohi Wells II Well # 3	Total/NA	Water	533	
MBL 380-261495/44-A	Method Blank	Total/NA	Water	533	
LCS 380-261495/46-A	Lab Control Sample	Total/NA	Water	533	
MRL 380-261495/45-A	Lab Control Sample	Total/NA	Water	533	
380-244094-E-1-A MS	Matrix Spike	Total/NA	Water	533	
380-244094-F-1-A MSD	Matrix Spike Duplicate	Total/NA	Water	533	

Analysis Batch: 261880

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-243483-1	Kaonohi Wells II Well # 3	Total/NA	Water	533	261495
MBL 380-261495/44-A	Method Blank	Total/NA	Water	533	261495
LCS 380-261495/46-A	Lab Control Sample	Total/NA	Water	533	261495
MRL 380-261495/45-A	Lab Control Sample	Total/NA	Water	533	261495

LCMS (Continued)

Analysis Batch: 261880 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-244094-E-1-A MS	Matrix Spike	Total/NA	Water	533	261495
380-244094-F-1-A MSD	Matrix Spike Duplicate	Total/NA	Water	533	261495

Lab Chronicle

Client: City & County of Honolulu
Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-243483-1
SDG: Kaonohi Wells II, Well #3 PFAS 533/537.1

Client Sample ID: Kaonohi Wells II Well # 3

Lab Sample ID: 380-243483-1

Date Collected: 10/20/26 09:50
Matrix: Water
Date Received: 10/21/26 10:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			261495	XTD8	EA POM	10/27/26 07:58
Total/NA	Analysis	533		1	261880	Y5FM	EA POM	10/28/26 16:23
Total/NA	Prep	537.1 DW			261247	G9MN	EA POM	10/26/26 03:00
Total/NA	Analysis	EPA 537.1 V2		1	261368	UKDT	EA POM	10/27/26 03:46

Client Sample ID: Kaonohi Wells II Well # 3 FB

Lab Sample ID: 380-243483-2

Date Collected: 10/20/26 09:50
Matrix: Water
Date Received: 10/21/26 10:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			260920	N8NE	EA POM	10/23/26 15:43
Total/NA	Analysis	533		1	261058	M7ML	EA POM	10/24/26 18:36
Total/NA	Prep	537.1 DW			261247	G9MN	EA POM	10/26/26 03:00
Total/NA	Analysis	EPA 537.1 V2		1	261368	UKDT	EA POM	10/27/26 04:54

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
Job ID: 380-243483-1
Project/Site: INTERA - Red-Hill-Incident
SDG: Kaonohi Wells II, Well #3 PFAS 533/537.1

Laboratory: Eurofins Pomona

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

Authority	Program	Identification Number	Expiration Date
Hawaii	State	CA00006	01-31-27

Method Summary

Client: City & County of Honolulu
Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-243483-1
SDG: Kaonohi Wells II, Well #3 PFAS 533/537.1

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: INTERA - Red-Hill-Incident

Job ID: 380-243483-1
SDG: Kaonohi Wells II, Well #3 PFAS 533/537.1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
380-243483-1	Kaonohi Wells II Well # 3	Water	10/20/26 09:50	10/21/26 10:18	Hawaii
380-243483-2	Kaonohi Wells II Well # 3 FB	Water	10/20/26 09:50	10/21/26 10:18	Hawaii

Eurofins Pomona
941 Corporate Center Drive
Pomona CA 91768-2642
Phone (626) 386-1100

Chain of Custody Record

eurofins | Environment Testing

10/30/2026

Client Information	Sampler: H Bentley (808) 321-0683	Lab PM: Lopez, Maria	Carrier Tracking No(s):	COC No.
Client Contact: Mr Erwin Kawata	Phone: 858-205-0730	E-Mail: Maria.Lopez@et.eurofinsus.com	State of Origin: Hawaii	Page: Page 1 of 1
Company: City & County of Honolulu	PWSID			Job #:

Address: 630 South Beretania Street	Due Date Requested:
City: Honolulu	TAT Requested (days): Standard
State Zip: HI 96843	Compliance Project: Δ Yes X No
Phone: 808-748-5066	PO #:
Email: ekawata@hbws.org	WO #:
Project Name: INTERA - Red-Hill-Incident	Project #: 38000861
Site: Ka onohi	SSOW#:

Analysis Requested

Preservation Codes:
A - HCL
N - None
I - AMMONIUM ACETATE
Y - TRIZMA

Other:

380-243483 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, DW=Drinking Water)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	533 - All Analytes	537 1_DW_PREC - 537 1 Full List	Total Number of containers	Special Instructions/Note
			Preservation Code:				I	Y		
Kaonohi Wells II Well #3	10/20/26	9 50	G	Water	N	N	3	3	6	
Kaonohi Wells II Well #3 FB	"	"	G	Water	N	N	1	1	2	FIELD REAGANT BLANK

Possible Hazard Identification
X 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 X 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: FX

	Date/Time	Company	Received by	Date/Time	Company
Relinquished by:	10/20/26 14 00	INTERA, INC		10/21/26 1016	FEDEX
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:
		7.6(IR) 3.9/3.7 Ice-Thm

Ver: 05/06/2024

Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-243483-1
SDG Number: Kaonohi Wells II, Well #3 PFAS 533/537.1

Login Number: 243483
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").	True	
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	