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ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Erwin Kawata
City & County of Honolulu
630 South Beretania Street
Public Service Bldg. Room 310
Honolulu, Hawaii 96843

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JOB DESCRIPTION

INTERA - Red-Hill-Incident
Site S1 PFAS 533/537.1

JOB NUMBER

380-236034-1

Eurofins Pomona
941 Corporate Center Drive
Pomona CA 91768-2642

See page two for job notes and contact information.

my EOL

Eurofins Pomona

Job Notes

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

The test results in this report relate only to the samples as received by the laboratory and meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins 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
Maria Lopez, Project Manager
Maria.Lopez@et.eurofinsus.com
(626)386-1145

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Definitions/Glossary

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

Job ID: 380-236034-1
SDG: Site S1 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
380-236034-1

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 9/11/2026 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 0.7°C.

PFAS
EPA 537.1 and EPA 533 are two distinct methods for the analysis of PFAS in drinking water. The analyses are conducted on differing instrumentation, with calibrations, extraction solvents and sample preservatives being dissimilar among the two methods. Therefore it is probable and not unexpected to see the methods having slight variations in analytical results: BWS2153-S1-AQ (380-236034-1). (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: 380-236034-1
SDG: Site S1 PFAS 533/537.1

Client Sample ID: BWS2153-S1-AQ — Lab Sample ID: 380-236034-1

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanesulfonic acid (PFOS)	15		2.0		ng/L	1		533	Total/NA
Perfluorooctanoic acid (PFOA)	3.6		2.0		ng/L	1		533	Total/NA
Perfluorobutanoic acid (PFBA)	2.1		2.0		ng/L	1		533	Total/NA
Perfluorooctanesulfonic acid (PFOS)	16		2.0		ng/L	1		EPA 537.1 V2	Total/NA
Perfluorooctanoic acid (PFOA)	3.7		2.0		ng/L	1		EPA 537.1 V2	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	2.7		2.0		ng/L	1		EPA 537.1 V2	Total/NA
Perfluorobutanesulfonic acid (PFBS)	2.2		2.0		ng/L	1		EPA 537.1 V2	Total/NA

Client Sample ID: BWS2153-S1-FB — Lab Sample ID: 380-236034-2

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample Results

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

Job ID: 380-236034-1
SDG: Site S1 PFAS 533/537.1

Client Sample ID: BWS2153-S1-AQ

Date Collected: 09/09/26 13:45
Date Received: 09/11/26 09:40

Lab Sample ID: 380-236034-1

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		09/18/26 03:00	09/18/26 15:49	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0		ng/L		09/18/26 03:00	09/18/26 15:49	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0		ng/L		09/18/26 03:00	09/18/26 15:49	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0		ng/L		09/18/26 03:00	09/18/26 15:49	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0		ng/L		09/18/26 03:00	09/18/26 15:49	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0		ng/L		09/18/26 03:00	09/18/26 15:49	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0		ng/L		09/18/26 03:00	09/18/26 15:49	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0		ng/L		09/18/26 03:00	09/18/26 15:49	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0		ng/L		09/18/26 03:00	09/18/26 15:49	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0		ng/L		09/18/26 03:00	09/18/26 15:49	1
Perfluorononanoic acid (PFNA)	<2.0		2.0		ng/L		09/18/26 03:00	09/18/26 15:49	1
Perfluorooctanesulfonic acid (PFOS)	**15**		2.0		ng/L		09/18/26 03:00	09/18/26 15:49	1
Perfluorooctanoic acid (PFOA)	**3.6**		2.0		ng/L		09/18/26 03:00	09/18/26 15:49	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0		ng/L		09/18/26 03:00	09/18/26 15:49	1
Perfluorobutanoic acid (PFBA)	**2.1**		2.0		ng/L		09/18/26 03:00	09/18/26 15:49	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0		ng/L		09/18/26 03:00	09/18/26 15:49	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0		ng/L		09/18/26 03:00	09/18/26 15:49	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0		ng/L		09/18/26 03:00	09/18/26 15:49	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		2.0		ng/L		09/18/26 03:00	09/18/26 15:49	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<2.0		2.0		ng/L		09/18/26 03:00	09/18/26 15:49	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0		ng/L		09/18/26 03:00	09/18/26 15:49	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0		ng/L		09/18/26 03:00	09/18/26 15:49	1
Perfluoropentanoic acid (PFPeA)	<2.0		2.0		ng/L		09/18/26 03:00	09/18/26 15:49	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0		ng/L		09/18/26 03:00	09/18/26 15:49	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0		ng/L		09/18/26 03:00	09/18/26 15:49	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*100*		*50 - 200*	*09/18/26 03:00*	*09/18/26 15:49*	*1*
13C6 PFDA	*100*		*50 - 200*	*09/18/26 03:00*	*09/18/26 15:49*	*1*
13C5 PFHxA	*103*		*50 - 200*	*09/18/26 03:00*	*09/18/26 15:49*	*1*
13C4 PFHpA	*100*		*50 - 200*	*09/18/26 03:00*	*09/18/26 15:49*	*1*
13C8 PFOA	*109*		*50 - 200*	*09/18/26 03:00*	*09/18/26 15:49*	*1*
13C9 PFNA	*102*		*50 - 200*	*09/18/26 03:00*	*09/18/26 15:49*	*1*
13C7 PFUnA	*79*		*50 - 200*	*09/18/26 03:00*	*09/18/26 15:49*	*1*
13C2 PFDoA	*98*		*50 - 200*	*09/18/26 03:00*	*09/18/26 15:49*	*1*
13C4 PFBA	*112*		*50 - 200*	*09/18/26 03:00*	*09/18/26 15:49*	*1*
13C5 PFPeA	*113*		*50 - 200*	*09/18/26 03:00*	*09/18/26 15:49*	*1*
13C3 PFBS	*118*		*50 - 200*	*09/18/26 03:00*	*09/18/26 15:49*	*1*
13C3 PFHxS	*117*		*50 - 200*	*09/18/26 03:00*	*09/18/26 15:49*	*1*
13C8 PFOS	*110*		*50 - 200*	*09/18/26 03:00*	*09/18/26 15:49*	*1*

Client Sample ID: BWS2153-S1-AQ

Lab Sample ID: 380-236034-1
Date Collected: 09/09/26 13:45
Matrix: Water
Date Received: 09/11/26 09:40

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	*158*		*50 - 200*	*09/18/26 03:00*	*09/18/26 15:49*	*1*
13C2-6:2-FTS	*152*		*50 - 200*	*09/18/26 03:00*	*09/18/26 15:49*	*1*
13C2-8:2-FTS	*134*		*50 - 200*	*09/18/26 03:00*	*09/18/26 15:49*	*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		09/14/26 10:15	09/15/26 13:54	1
Perfluorooctanesulfonic acid (PFOS)	**16**		2.0	ng/L		09/14/26 10:15	09/15/26 13:54	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		09/14/26 10:15	09/15/26 13:54	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		2.0	ng/L		09/14/26 10:15	09/15/26 13:54	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		2.0	ng/L		09/14/26 10:15	09/15/26 13:54	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		09/14/26 10:15	09/15/26 13:54	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		09/14/26 10:15	09/15/26 13:54	1
Perfluorooctanoic acid (PFOA)	**3.7**		2.0	ng/L		09/14/26 10:15	09/15/26 13:54	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		09/14/26 10:15	09/15/26 13:54	1
Perfluorohexanesulfonic acid (PFHxS)	**2.7**		2.0	ng/L		09/14/26 10:15	09/15/26 13:54	1
Perfluorobutanesulfonic acid (PFBS)	**2.2**		2.0	ng/L		09/14/26 10:15	09/15/26 13:54	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		09/14/26 10:15	09/15/26 13:54	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		09/14/26 10:15	09/15/26 13:54	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0	ng/L		09/14/26 10:15	09/15/26 13:54	1
Perfluorotridecanoic acid (PFTrDA)	<2.0		2.0	ng/L		09/14/26 10:15	09/15/26 13:54	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		09/14/26 10:15	09/15/26 13:54	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		09/14/26 10:15	09/15/26 13:54	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		09/14/26 10:15	09/15/26 13:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*80*		*70 - 130*	*09/14/26 10:15*	*09/15/26 13:54*	*1*
13C2 PFHxA	*88*		*70 - 130*	*09/14/26 10:15*	*09/15/26 13:54*	*1*
13C2 PFDA	*97*		*70 - 130*	*09/14/26 10:15*	*09/15/26 13:54*	*1*
13C3-GenX	*88*		*70 - 130*	*09/14/26 10:15*	*09/15/26 13:54*	*1*

Client Sample ID: BWS2153-S1-FB

Lab Sample ID: 380-236034-2
Date Collected: 09/09/26 13:45
Matrix: Water
Date Received: 09/11/26 09:40

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		09/15/26 17:20	09/17/26 01:38	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		09/15/26 17:20	09/17/26 01:38	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		09/15/26 17:20	09/17/26 01:38	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		09/15/26 17:20	09/17/26 01:38	1

Client Sample Results

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

Job ID: 380-236034-1
SDG: Site S1 PFAS 533/537.1

Client Sample ID: BWS2153-S1-FB

Date Collected: 09/09/26 13:45
Date Received: 09/11/26 09:40

Lab Sample ID: 380-236034-2

Matrix: Water

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0		ng/L		09/15/26 17:20	09/17/26 01:38	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0		ng/L		09/15/26 17:20	09/17/26 01:38	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0		ng/L		09/15/26 17:20	09/17/26 01:38	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0		ng/L		09/15/26 17:20	09/17/26 01:38	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0		ng/L		09/15/26 17:20	09/17/26 01:38	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0		ng/L		09/15/26 17:20	09/17/26 01:38	1
Perfluorononanoic acid (PFNA)	<2.0		2.0		ng/L		09/15/26 17:20	09/17/26 01:38	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0		ng/L		09/15/26 17:20	09/17/26 01:38	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0		ng/L		09/15/26 17:20	09/17/26 01:38	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0		ng/L		09/15/26 17:20	09/17/26 01:38	1
Perfluorobutanoic acid (PFBA)	<2.0		2.0		ng/L		09/15/26 17:20	09/17/26 01:38	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0		ng/L		09/15/26 17:20	09/17/26 01:38	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0		ng/L		09/15/26 17:20	09/17/26 01:38	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0		ng/L		09/15/26 17:20	09/17/26 01:38	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		2.0		ng/L		09/15/26 17:20	09/17/26 01:38	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<2.0		2.0		ng/L		09/15/26 17:20	09/17/26 01:38	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0		ng/L		09/15/26 17:20	09/17/26 01:38	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0		ng/L		09/15/26 17:20	09/17/26 01:38	1
Perfluoropentanoic acid (PFPeA)	<2.0		2.0		ng/L		09/15/26 17:20	09/17/26 01:38	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0		ng/L		09/15/26 17:20	09/17/26 01:38	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0		ng/L		09/15/26 17:20	09/17/26 01:38	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*101*		*50 - 200*	*09/15/26 17:20*	*09/17/26 01:38*	*1*
13C6 PFDA	*114*		*50 - 200*	*09/15/26 17:20*	*09/17/26 01:38*	*1*
13C5 PFHxA	*99*		*50 - 200*	*09/15/26 17:20*	*09/17/26 01:38*	*1*
13C4 PFHpA	*101*		*50 - 200*	*09/15/26 17:20*	*09/17/26 01:38*	*1*
13C8 PFOA	*99*		*50 - 200*	*09/15/26 17:20*	*09/17/26 01:38*	*1*
13C9 PFNA	*111*		*50 - 200*	*09/15/26 17:20*	*09/17/26 01:38*	*1*
13C7 PFUnA	*107*		*50 - 200*	*09/15/26 17:20*	*09/17/26 01:38*	*1*
13C2 PFDoA	*104*		*50 - 200*	*09/15/26 17:20*	*09/17/26 01:38*	*1*
13C4 PFBA	*107*		*50 - 200*	*09/15/26 17:20*	*09/17/26 01:38*	*1*
13C5 PFPeA	*115*		*50 - 200*	*09/15/26 17:20*	*09/17/26 01:38*	*1*
13C3 PFBS	*98*		*50 - 200*	*09/15/26 17:20*	*09/17/26 01:38*	*1*
13C3 PFHxS	*97*		*50 - 200*	*09/15/26 17:20*	*09/17/26 01:38*	*1*
13C8 PFOS	*109*		*50 - 200*	*09/15/26 17:20*	*09/17/26 01:38*	*1*
13C2-4:2-FTS	*81*		*50 - 200*	*09/15/26 17:20*	*09/17/26 01:38*	*1*
13C2-6:2-FTS	*82*		*50 - 200*	*09/15/26 17:20*	*09/17/26 01:38*	*1*
13C2-8:2-FTS	*111*		*50 - 200*	*09/15/26 17:20*	*09/17/26 01:38*	*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		09/14/26 10:15	09/15/26 14:04	1

Client Sample Results

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

Job ID: 380-236034-1
SDG: Site S1 PFAS 533/537.1

Client Sample ID: BWS2153-S1-FB

Date Collected: 09/09/26 13:45
Date Received: 09/11/26 09:40

Lab Sample ID: 380-236034-2

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
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0		ng/L		09/14/26 10:15	09/15/26 14:04	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0		ng/L		09/14/26 10:15	09/15/26 14:04	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		2.0		ng/L		09/14/26 10:15	09/15/26 14:04	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		2.0		ng/L		09/14/26 10:15	09/15/26 14:04	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0		ng/L		09/14/26 10:15	09/15/26 14:04	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0		ng/L		09/14/26 10:15	09/15/26 14:04	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0		ng/L		09/14/26 10:15	09/15/26 14:04	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0		ng/L		09/14/26 10:15	09/15/26 14:04	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0		ng/L		09/14/26 10:15	09/15/26 14:04	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0		ng/L		09/14/26 10:15	09/15/26 14:04	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0		ng/L		09/14/26 10:15	09/15/26 14:04	1
Perfluorononanoic acid (PFNA)	<2.0		2.0		ng/L		09/14/26 10:15	09/15/26 14:04	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0		ng/L		09/14/26 10:15	09/15/26 14:04	1
Perfluorotridecanoic acid (PFTrDA)	<2.0		2.0		ng/L		09/14/26 10:15	09/15/26 14:04	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0		ng/L		09/14/26 10:15	09/15/26 14:04	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0		ng/L		09/14/26 10:15	09/15/26 14:04	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0		ng/L		09/14/26 10:15	09/15/26 14:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*96*		*70 - 130*	*09/14/26 10:15*	*09/15/26 14:04*	*1*
13C2 PFHxA	*96*		*70 - 130*	*09/14/26 10:15*	*09/15/26 14:04*	*1*
13C2 PFDA	*98*		*70 - 130*	*09/14/26 10:15*	*09/15/26 14:04*	*1*
13C3-GenX	*80*		*70 - 130*	*09/14/26 10:15*	*09/15/26 14:04*	*1*

Action Limit Summary

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

Job ID: 380-236034-1
SDG: Site S1 PFAS 533/537.1

Client Sample ID: BWS2153-S1-AQ — Lab Sample ID: 380-236034-1

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)	**15**		ng/L	**4**	2.0	533	Total/NA
Perfluorooctanoic acid (PFOA)	3.6		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)	**16**		ng/L	**4**	2.0	EPA 537.1 V2	Total/NA
Perfluorooctanoic acid (PFOA)	3.7		ng/L	4	2.0	EPA 537.1 V2	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	2.7		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: BWS2153-S1-FB — Lab Sample ID: 380-236034-2

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: 380-236034-1
SDG: Site S1 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)			
Lab Sample ID	**Client Sample ID**	**d5NEFOS (70-130)**	**PFHxA (70-130)**	**PFDA (70-130)**	**GenX (70-130)**
380-235905-B-1-A MS	Matrix Spike	100	101	90	82
380-235905-B-1-B MSD	Matrix Spike Duplicate	101	101	90	82
380-236034-1	BWS2153-S1-AQ	80	88	97	88
380-236034-2	BWS2153-S1-FB	96	96	98	80
LCS 380-252432/22-A	Lab Control Sample	92	93	93	77
MBL 380-252432/20-A	Method Blank	99	103	100	86
MRL 380-252432/21-A	Lab Control Sample	99	104	96	86

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: 380-236034-1
SDG: Site S1 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)
380-235924-E-1-A MS	Matrix Spike	112	122	108	108	108	116	117	110
380-235924-F-1-A MSD	Matrix Spike Duplicate	107	119	103	103	103	112	111	109
380-236034-1	BWS2153-S1-AQ	100	100	103	100	109	102	79	98
380-236034-2	BWS2153-S1-FB	101	114	99	101	99	111	107	104
380-236896-B-1-A MS	Matrix Spike	102	105	103	102	106	106	106	103
380-236896-C-1-A MSD	Matrix Spike Duplicate	104	104	104	101	107	107	103	104
LCS 380-252759/22-A	Lab Control Sample	108	120	105	109	105	115	111	111
LCS 380-253322/22-A	Lab Control Sample	105	103	104	101	106	109	107	104
MBL 380-252759/20-A	Method Blank	103	115	104	107	108	113	112	109
MBL 380-253322/20-A	Method Blank	94	101	100	98	104	101	97	99
MRL 380-252759/21-A	Lab Control Sample	107	120	107	107	107	120	114	114
MRL 380-253322/21-A	Lab Control Sample	100	107	107	107	108	109	107	103

		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)
380-235924-E-1-A MS	Matrix Spike	109	114	96	102	109	86	86	114
380-235924-F-1-A MSD	Matrix Spike Duplicate	107	114	98	103	105	86	89	109
380-236034-1	BWS2153-S1-AQ	112	113	118	117	110	158	152	134
380-236034-2	BWS2153-S1-FB	107	115	98	97	109	81	82	111
380-236896-B-1-A MS	Matrix Spike	109	106	110	109	112	111	113	115
380-236896-C-1-A MSD	Matrix Spike Duplicate	107	103	106	105	107	109	117	115
LCS 380-252759/22-A	Lab Control Sample	110	116	105	104	112	91	96	117
LCS 380-253322/22-A	Lab Control Sample	105	102	103	104	107	106	106	110
MBL 380-252759/20-A	Method Blank	109	118	100	102	107	84	94	117
MBL 380-253322/20-A	Method Blank	105	103	103	105	103	110	110	111
MRL 380-252759/21-A	Lab Control Sample	107	119	104	104	111	87	91	115
MRL 380-253322/21-A	Lab Control Sample	113	112	109	113	112	112	117	117

Surrogate Legend

HFPODA = 13C3 HFPO-DA
C6PFDA = 13C6 PFDA
13C5PHA = 13C5 PFHxA
C4PFHA = 13C4 PFHpA
C8PFOA = 13C8 PFOA
C9PFNA = 13C9 PFNA
13C7PUA = 13C7 PFUnA
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 380-252759/20-A
Matrix: Water
Analysis Batch: 252933

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 252759

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		09/15/26 17:20	09/16/26 20:56	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<0.30		2.0		ng/L		09/15/26 17:20	09/16/26 20:56	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.59		2.0		ng/L		09/15/26 17:20	09/16/26 20:56	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<0.98		2.0		ng/L		09/15/26 17:20	09/16/26 20:56	1
Perfluorobutanesulfonic acid (PFBS)	<0.36		2.0		ng/L		09/15/26 17:20	09/16/26 20:56	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0		ng/L		09/15/26 17:20	09/16/26 20:56	1
Perfluorododecanoic acid (PFDoA)	<0.53		2.0		ng/L		09/15/26 17:20	09/16/26 20:56	1
Perfluoroheptanoic acid (PFHpA)	<0.38		2.0		ng/L		09/15/26 17:20	09/16/26 20:56	1
Perfluorohexanesulfonic acid (PFHxS)	<0.31		2.0		ng/L		09/15/26 17:20	09/16/26 20:56	1
Perfluorohexanoic acid (PFHxA)	<0.45		2.0		ng/L		09/15/26 17:20	09/16/26 20:56	1
Perfluorononanoic acid (PFNA)	<0.39		2.0		ng/L		09/15/26 17:20	09/16/26 20:56	1
Perfluorooctanesulfonic acid (PFOS)	<0.42		2.0		ng/L		09/15/26 17:20	09/16/26 20:56	1
Perfluorooctanoic acid (PFOA)	<0.37		2.0		ng/L		09/15/26 17:20	09/16/26 20:56	1
Perfluoroundecanoic acid (PFUnA)	<0.41		2.0		ng/L		09/15/26 17:20	09/16/26 20:56	1
Perfluorobutanoic acid (PFBA)	<0.68		2.0		ng/L		09/15/26 17:20	09/16/26 20:56	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<0.38		2.0		ng/L		09/15/26 17:20	09/16/26 20:56	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<0.36		2.0		ng/L		09/15/26 17:20	09/16/26 20:56	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<0.47		2.0		ng/L		09/15/26 17:20	09/16/26 20:56	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.46		2.0		ng/L		09/15/26 17:20	09/16/26 20:56	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<0.24		2.0		ng/L		09/15/26 17:20	09/16/26 20:56	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.45		2.0		ng/L		09/15/26 17:20	09/16/26 20:56	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.15		2.0		ng/L		09/15/26 17:20	09/16/26 20:56	1
Perfluoropentanoic acid (PFPeA)	<0.37		2.0		ng/L		09/15/26 17:20	09/16/26 20:56	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.35		2.0		ng/L		09/15/26 17:20	09/16/26 20:56	1
Perfluoropentanesulfonic acid (PFPeS)	<0.38		2.0		ng/L		09/15/26 17:20	09/16/26 20:56	1

Isotope Dilution	*MBL %Recovery*	*MBL Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*103*		*50 - 200*	*09/15/26 17:20*	*09/16/26 20:56*	*1*
13C6 PFDA	*115*		*50 - 200*	*09/15/26 17:20*	*09/16/26 20:56*	*1*
13C5 PFHxA	*104*		*50 - 200*	*09/15/26 17:20*	*09/16/26 20:56*	*1*
13C4 PFHpA	*107*		*50 - 200*	*09/15/26 17:20*	*09/16/26 20:56*	*1*
13C8 PFOA	*108*		*50 - 200*	*09/15/26 17:20*	*09/16/26 20:56*	*1*
13C9 PFNA	*113*		*50 - 200*	*09/15/26 17:20*	*09/16/26 20:56*	*1*
13C7 PFUnA	*112*		*50 - 200*	*09/15/26 17:20*	*09/16/26 20:56*	*1*
13C2 PFDoA	*109*		*50 - 200*	*09/15/26 17:20*	*09/16/26 20:56*	*1*
13C4 PFBA	*109*		*50 - 200*	*09/15/26 17:20*	*09/16/26 20:56*	*1*
13C5 PFPeA	*118*		*50 - 200*	*09/15/26 17:20*	*09/16/26 20:56*	*1*
13C3 PFBS	*100*		*50 - 200*	*09/15/26 17:20*	*09/16/26 20:56*	*1*
13C3 PFHxS	*102*		*50 - 200*	*09/15/26 17:20*	*09/16/26 20:56*	*1*

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

Lab Sample ID: MBL 380-252759/20-A
Matrix: Water
Analysis Batch: 252933

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 252759

Isotope Dilution	MBL %Recovery	MBL Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOS	107		50 - 200	09/15/26 17:20	09/16/26 20:56	1
13C2-4:2-FTS	84		50 - 200	09/15/26 17:20	09/16/26 20:56	1
13C2-6:2-FTS	94		50 - 200	09/15/26 17:20	09/16/26 20:56	1
13C2-8:2-FTS	117		50 - 200	09/15/26 17:20	09/16/26 20:56	1

Lab Sample ID: LCS 380-252759/22-A
Matrix: Water
Analysis Batch: 252933

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 252759

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	118	105		ng/L		89	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	118	108		ng/L		91	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	118	111		ng/L		94	70 - 130
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	118	111		ng/L		94	70 - 130
Perfluorobutanesulfonic acid (PFBS)	118	107		ng/L		90	70 - 130
Perfluorodecanoic acid (PFDA)	118	106		ng/L		89	70 - 130
Perfluorododecanoic acid (PFDoA)	118	111		ng/L		94	70 - 130
Perfluoroheptanoic acid (PFHpA)	118	109		ng/L		92	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	118	112		ng/L		94	70 - 130
Perfluorohexanoic acid (PFHxA)	118	111		ng/L		94	70 - 130
Perfluorononanoic acid (PFNA)	118	108		ng/L		91	70 - 130
Perfluorooctanesulfonic acid (PFOS)	118	110		ng/L		93	70 - 130
Perfluorooctanoic acid (PFOA)	118	112		ng/L		94	70 - 130
Perfluoroundecanoic acid (PFUnA)	118	115		ng/L		97	70 - 130
Perfluorobutanoic acid (PFBA)	118	112		ng/L		95	70 - 130
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	118	118		ng/L		100	70 - 130
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	118	102		ng/L		86	70 - 130
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	118	110		ng/L		93	70 - 130
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	118	112		ng/L		95	70 - 130
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	118	108		ng/L		92	70 - 130
Perfluoro-3-methoxypropanoic acid (PFMPA)	118	108		ng/L		92	70 - 130
Perfluoro-4-methoxybutanoic acid (PFMBA)	118	113		ng/L		96	70 - 130
Perfluoropentanoic acid (PFPeA)	118	110		ng/L		93	70 - 130
Perfluoroheptanesulfonic acid (PFHpS)	118	106		ng/L		90	70 - 130

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

Lab Sample ID: LCS 380-252759/22-A
Matrix: Water
Analysis Batch: 252933

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 252759

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoropentanesulfonic acid (PFPeS)	118	109		ng/L		93	70 - 130

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C3 HFPO-DA	*108*		*50 - 200*
13C6 PFDA	*120*		*50 - 200*
13C5 PFHxA	*105*		*50 - 200*
13C4 PFHpA	*109*		*50 - 200*
13C8 PFOA	*105*		*50 - 200*
13C9 PFNA	*115*		*50 - 200*
13C7 PFUnA	*111*		*50 - 200*
13C2 PFDoA	*111*		*50 - 200*
13C4 PFBA	*110*		*50 - 200*
13C5 PFPeA	*116*		*50 - 200*
13C3 PFBS	*105*		*50 - 200*
13C3 PFHxS	*104*		*50 - 200*
13C8 PFOS	*112*		*50 - 200*
13C2-4:2-FTS	*91*		*50 - 200*
13C2-6:2-FTS	*96*		*50 - 200*
13C2-8:2-FTS	*117*		*50 - 200*

Lab Sample ID: MRL 380-252759/21-A
Matrix: Water
Analysis Batch: 252933

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 252759

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	1.97	1.93	J	ng/L		98	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	1.97	2.07	J	ng/L		105	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.97	2.05	J	ng/L		104	50 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	1.97	2.00	J	ng/L		102	50 - 150
Perfluorobutanesulfonic acid (PFBS)	1.97	1.89	J	ng/L		96	50 - 150
Perfluorodecanoic acid (PFDA)	1.97	2.02	J	ng/L		103	50 - 150
Perfluorododecanoic acid (PFDoA)	1.97	1.95	J	ng/L		99	50 - 150
Perfluoroheptanoic acid (PFHpA)	1.97	2.06	J	ng/L		105	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	1.97	1.97	J	ng/L		100	50 - 150
Perfluorohexanoic acid (PFHxA)	1.97	1.96	J	ng/L		100	50 - 150
Perfluorononanoic acid (PFNA)	1.97	1.93	J	ng/L		98	50 - 150
Perfluorooctanesulfonic acid (PFOS)	1.97	2.09	J	ng/L		106	50 - 150
Perfluorooctanoic acid (PFOA)	1.97	2.20	J	ng/L		112	50 - 150
Perfluoroundecanoic acid (PFUnA)	1.97	2.03	J	ng/L		103	50 - 150
Perfluorobutanoic acid (PFBA)	1.97	2.06	J	ng/L		104	50 - 150

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

Lab Sample ID: MRL 380-252759/21-A
Matrix: Water
Analysis Batch: 252933

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 252759

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	1.97	2.21	J	ng/L		112	50 - 150
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	1.97	1.95	J	ng/L		99	50 - 150
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	1.97	2.12	J	ng/L		108	50 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	1.97	2.13	J	ng/L		108	50 - 150
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	1.97	1.96	J	ng/L		99	50 - 150
Perfluoro-3-methoxypropanoic acid (PFMPA)	1.97	1.91	J	ng/L		97	50 - 150
Perfluoro-4-methoxybutanoic acid (PFMBA)	1.97	1.96	J	ng/L		99	50 - 150
Perfluoropentanoic acid (PFPeA)	1.97	1.87	J	ng/L		95	50 - 150
Perfluoroheptanesulfonic acid (PFHpS)	1.97	1.93	J	ng/L		98	50 - 150
Perfluoropentanesulfonic acid (PFPeS)	1.97	1.81	J	ng/L		92	50 - 150

Isotope Dilution	*MRL %Recovery*	*MRL Qualifier*	*Limits*
13C3 HFPO-DA	*107*		*50 - 200*
13C6 PFDA	*120*		*50 - 200*
13C5 PFHxA	*107*		*50 - 200*
13C4 PFHpA	*107*		*50 - 200*
13C8 PFOA	*107*		*50 - 200*
13C9 PFNA	*120*		*50 - 200*
13C7 PFUnA	*114*		*50 - 200*
13C2 PFDoA	*114*		*50 - 200*
13C4 PFBA	*107*		*50 - 200*
13C5 PFPeA	*119*		*50 - 200*
13C3 PFBS	*104*		*50 - 200*
13C3 PFHxS	*104*		*50 - 200*
13C8 PFOS	*111*		*50 - 200*
13C2-4:2-FTS	*87*		*50 - 200*
13C2-6:2-FTS	*91*		*50 - 200*
13C2-8:2-FTS	*115*		*50 - 200*

Lab Sample ID: 380-235924-E-1-A MS
Matrix: Water
Analysis Batch: 252933

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 252759

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	108		ng/L		91	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		118	113		ng/L		95	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		118	116		ng/L		98	70 - 130

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

Lab Sample ID: 380-235924-E-1-A MS
Matrix: Water
Analysis Batch: 252933

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 252759

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		118	112		ng/L		95	70 - 130
Perfluorobutanesulfonic acid (PFBS)	<2.0		118	119		ng/L		101	70 - 130
Perfluorodecanoic acid (PFDA)	<2.0		118	107		ng/L		91	70 - 130
Perfluorododecanoic acid (PFDoA)	<2.0		118	116		ng/L		98	70 - 130
Perfluoroheptanoic acid (PFHpA)	<2.0		118	114		ng/L		96	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	<2.0		118	112		ng/L		95	70 - 130
Perfluorohexanoic acid (PFHxA)	<2.0		118	109		ng/L		92	70 - 130
Perfluorononanoic acid (PFNA)	<2.0		118	114		ng/L		96	70 - 130
Perfluorooctanesulfonic acid (PFOS)	<2.0		118	112		ng/L		95	70 - 130
Perfluorooctanoic acid (PFOA)	<2.0		118	115		ng/L		97	70 - 130
Perfluoroundecanoic acid (PFUnA)	<2.0		118	109		ng/L		92	70 - 130
Perfluorobutanoic acid (PFBA)	<2.0		118	113		ng/L		96	70 - 130
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		118	115		ng/L		97	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	118		ng/L		100	70 - 130
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		118	115		ng/L		98	70 - 130
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<2.0		118	117		ng/L		99	70 - 130
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		118	113		ng/L		96	70 - 130
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		118	117		ng/L		99	70 - 130
Perfluoropentanoic acid (PFPeA)	<2.0		118	114		ng/L		96	70 - 130
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		118	105		ng/L		89	70 - 130
Perfluoropentanesulfonic acid (PFPeS)	<2.0		118	105		ng/L		89	70 - 130

Isotope Dilution	*MS %Recovery*	*MS Qualifier*	*Limits*
13C3 HFPO-DA	*112*		*50 - 200*
13C6 PFDA	*122*		*50 - 200*
13C5 PFHxA	*108*		*50 - 200*
13C4 PFHpA	*108*		*50 - 200*
13C8 PFOA	*108*		*50 - 200*
13C9 PFNA	*116*		*50 - 200*
13C7 PFUnA	*117*		*50 - 200*
13C2 PFDoA	*110*		*50 - 200*
13C4 PFBA	*109*		*50 - 200*
13C5 PFPeA	*114*		*50 - 200*
13C3 PFBS	*96*		*50 - 200*
13C3 PFHxS	*102*		*50 - 200*
13C8 PFOS	*109*		*50 - 200*

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

Lab Sample ID: 380-235924-E-1-A MS
Matrix: Water
Analysis Batch: 252933

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 252759

Isotope Dilution	*MS %Recovery*	*MS Qualifier*	*Limits*
13C2-4:2-FTS	*86*		*50 - 200*
13C2-6:2-FTS	*86*		*50 - 200*
13C2-8:2-FTS	*114*		*50 - 200*

Lab Sample ID: 380-235924-F-1-A MSD
Matrix: Water
Analysis Batch: 252933

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 252759

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	110		ng/L		93	70 - 130	2	30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		118	114		ng/L		97	70 - 130	1	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		118	118		ng/L		100	70 - 130	1	30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		118	113		ng/L		96	70 - 130	1	30
Perfluorobutanesulfonic acid (PFBS)	<2.0		118	116		ng/L		98	70 - 130	3	30
Perfluorodecanoic acid (PFDA)	<2.0		118	108		ng/L		92	70 - 130	1	30
Perfluorododecanoic acid (PFDoA)	<2.0		118	117		ng/L		99	70 - 130	1	30
Perfluoroheptanoic acid (PFHpA)	<2.0		118	118		ng/L		99	70 - 130	3	30
Perfluorohexanesulfonic acid (PFHxS)	<2.0		118	109		ng/L		92	70 - 130	2	30
Perfluorohexanoic acid (PFHxA)	<2.0		118	107		ng/L		90	70 - 130	2	30
Perfluorononanoic acid (PFNA)	<2.0		118	116		ng/L		98	70 - 130	2	30
Perfluorooctanesulfonic acid (PFOS)	<2.0		118	116		ng/L		98	70 - 130	3	30
Perfluorooctanoic acid (PFOA)	<2.0		118	116		ng/L		97	70 - 130	1	30
Perfluoroundecanoic acid (PFUnA)	<2.0		118	110		ng/L		93	70 - 130	1	30
Perfluorobutanoic acid (PFBA)	<2.0		118	116		ng/L		98	70 - 130	2	30
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		118	126		ng/L		107	70 - 130	9	30
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		118	110		ng/L		93	70 - 130	0	30
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		118	117		ng/L		99	70 - 130	1	30
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		118	115		ng/L		97	70 - 130	0	30
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<2.0		118	114		ng/L		96	70 - 130	3	30
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		118	112		ng/L		94	70 - 130	1	30
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		118	116		ng/L		98	70 - 130	0	30
Perfluoropentanoic acid (PFPeA)	<2.0		118	113		ng/L		95	70 - 130	1	30
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		118	110		ng/L		93	70 - 130	4	30
Perfluoropentanesulfonic acid (PFPeS)	<2.0		118	104		ng/L		88	70 - 130	1	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	119		50 - 200
13C5 PFHxA	103		50 - 200
13C4 PFHpA	103		50 - 200
13C8 PFOA	103		50 - 200
13C9 PFNA	112		50 - 200
13C7 PFUnA	111		50 - 200
13C2 PFDoA	109		50 - 200
13C4 PFBA	107		50 - 200
13C5 PFPeA	114		50 - 200
13C3 PFBS	98		50 - 200
13C3 PFHxS	103		50 - 200
13C8 PFOS	105		50 - 200
13C2-4:2-FTS	86		50 - 200
13C2-6:2-FTS	89		50 - 200
13C2-8:2-FTS	109		50 - 200

Lab Sample ID: MBL 380-253322/20-A
Matrix: Water
Analysis Batch: 253409

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 253322

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		09/18/26 03:00	09/18/26 13:45	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<0.30		2.0	ng/L		09/18/26 03:00	09/18/26 13:45	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.59		2.0	ng/L		09/18/26 03:00	09/18/26 13:45	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<0.98		2.0	ng/L		09/18/26 03:00	09/18/26 13:45	1
Perfluorobutanesulfonic acid (PFBS)	<0.36		2.0	ng/L		09/18/26 03:00	09/18/26 13:45	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	ng/L		09/18/26 03:00	09/18/26 13:45	1
Perfluorododecanoic acid (PFDoA)	<0.53		2.0	ng/L		09/18/26 03:00	09/18/26 13:45	1
Perfluoroheptanoic acid (PFHpA)	<0.38		2.0	ng/L		09/18/26 03:00	09/18/26 13:45	1
Perfluorohexanesulfonic acid (PFHxS)	<0.31		2.0	ng/L		09/18/26 03:00	09/18/26 13:45	1
Perfluorohexanoic acid (PFHxA)	<0.45		2.0	ng/L		09/18/26 03:00	09/18/26 13:45	1
Perfluorononanoic acid (PFNA)	<0.39		2.0	ng/L		09/18/26 03:00	09/18/26 13:45	1
Perfluorooctanesulfonic acid (PFOS)	<0.42		2.0	ng/L		09/18/26 03:00	09/18/26 13:45	1
Perfluorooctanoic acid (PFOA)	<0.37		2.0	ng/L		09/18/26 03:00	09/18/26 13:45	1
Perfluoroundecanoic acid (PFUnA)	<0.41		2.0	ng/L		09/18/26 03:00	09/18/26 13:45	1
Perfluorobutanoic acid (PFBA)	<0.68		2.0	ng/L		09/18/26 03:00	09/18/26 13:45	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<0.38		2.0	ng/L		09/18/26 03:00	09/18/26 13:45	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<0.36		2.0	ng/L		09/18/26 03:00	09/18/26 13:45	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<0.47		2.0	ng/L		09/18/26 03:00	09/18/26 13:45	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.46		2.0	ng/L		09/18/26 03:00	09/18/26 13:45	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<0.24		2.0	ng/L		09/18/26 03:00	09/18/26 13:45	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.45		2.0	ng/L		09/18/26 03:00	09/18/26 13:45	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.15		2.0	ng/L		09/18/26 03:00	09/18/26 13:45	1

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

Lab Sample ID: MBL 380-253322/20-A
Matrix: Water
Analysis Batch: 253409

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 253322

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoropentanoic acid (PFPeA)	<0.37		2.0	ng/L		09/18/26 03:00	09/18/26 13:45	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.35		2.0	ng/L		09/18/26 03:00	09/18/26 13:45	1
Perfluoropentanesulfonic acid (PFPeS)	<0.38		2.0	ng/L		09/18/26 03:00	09/18/26 13:45	1

Isotope Dilution	*MBL %Recovery*	*MBL Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*94*		*50 - 200*	*09/18/26 03:00*	*09/18/26 13:45*	*1*
13C6 PFDA	*101*		*50 - 200*	*09/18/26 03:00*	*09/18/26 13:45*	*1*
13C5 PFHxA	*100*		*50 - 200*	*09/18/26 03:00*	*09/18/26 13:45*	*1*
13C4 PFHpA	*98*		*50 - 200*	*09/18/26 03:00*	*09/18/26 13:45*	*1*
13C8 PFOA	*104*		*50 - 200*	*09/18/26 03:00*	*09/18/26 13:45*	*1*
13C9 PFNA	*101*		*50 - 200*	*09/18/26 03:00*	*09/18/26 13:45*	*1*
13C7 PFUnA	*97*		*50 - 200*	*09/18/26 03:00*	*09/18/26 13:45*	*1*
13C2 PFDoA	*99*		*50 - 200*	*09/18/26 03:00*	*09/18/26 13:45*	*1*
13C4 PFBA	*105*		*50 - 200*	*09/18/26 03:00*	*09/18/26 13:45*	*1*
13C5 PFPeA	*103*		*50 - 200*	*09/18/26 03:00*	*09/18/26 13:45*	*1*
13C3 PFBS	*103*		*50 - 200*	*09/18/26 03:00*	*09/18/26 13:45*	*1*
13C3 PFHxS	*105*		*50 - 200*	*09/18/26 03:00*	*09/18/26 13:45*	*1*
13C8 PFOS	*103*		*50 - 200*	*09/18/26 03:00*	*09/18/26 13:45*	*1*
13C2-4:2-FTS	*110*		*50 - 200*	*09/18/26 03:00*	*09/18/26 13:45*	*1*
13C2-6:2-FTS	*110*		*50 - 200*	*09/18/26 03:00*	*09/18/26 13:45*	*1*
13C2-8:2-FTS	*111*		*50 - 200*	*09/18/26 03:00*	*09/18/26 13:45*	*1*

Lab Sample ID: LCS 380-253322/22-A
Matrix: Water
Analysis Batch: 253409

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 253322

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	118	107		ng/L		90	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	118	109		ng/L		92	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	118	114		ng/L		97	70 - 130
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	118	110		ng/L		93	70 - 130
Perfluorobutanesulfonic acid (PFBS)	118	112		ng/L		95	70 - 130
Perfluorodecanoic acid (PFDA)	118	115		ng/L		97	70 - 130
Perfluorododecanoic acid (PFDoA)	118	112		ng/L		95	70 - 130
Perfluoroheptanoic acid (PFHpA)	118	114		ng/L		97	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	118	112		ng/L		94	70 - 130
Perfluorohexanoic acid (PFHxA)	118	113		ng/L		95	70 - 130
Perfluorononanoic acid (PFNA)	118	109		ng/L		93	70 - 130
Perfluorooctanesulfonic acid (PFOS)	118	108		ng/L		92	70 - 130
Perfluorooctanoic acid (PFOA)	118	112		ng/L		95	70 - 130

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

Lab Sample ID: LCS 380-253322/22-A
Matrix: Water
Analysis Batch: 253409

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 253322

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoroundecanoic acid (PFUnA)	118	110		ng/L		94	70 - 130
Perfluorobutanoic acid (PFBA)	118	111		ng/L		94	70 - 130
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	118	106		ng/L		90	70 - 130
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	118	114		ng/L		96	70 - 130
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	118	117		ng/L		99	70 - 130
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	118	109		ng/L		92	70 - 130
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	118	113		ng/L		95	70 - 130
Perfluoro-3-methoxypropanoic acid (PFMPA)	118	112		ng/L		95	70 - 130
Perfluoro-4-methoxybutanoic acid (PFMBA)	118	111		ng/L		94	70 - 130
Perfluoropentanoic acid (PFPeA)	118	107		ng/L		91	70 - 130
Perfluoroheptanesulfonic acid (PFHpS)	118	111		ng/L		94	70 - 130
Perfluoropentanesulfonic acid (PFPeS)	118	114		ng/L		97	70 - 130

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

Lab Sample ID: MRL 380-253322/21-A
Matrix: Water
Analysis Batch: 253409

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 253322

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	1.97	2.06	J	ng/L		104	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	1.97	2.03	J	ng/L		103	50 - 150

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

Lab Sample ID: MRL 380-253322/21-A
Matrix: Water
Analysis Batch: 253409

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 253322

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
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	2.08	J	ng/L		105	50 - 150
Perfluorobutanesulfonic acid (PFBS)	1.97	2.11	J	ng/L		107	50 - 150
Perfluorodecanoic acid (PFDA)	1.97	2.05	J	ng/L		104	50 - 150
Perfluorododecanoic acid (PFDoA)	1.97	2.09	J	ng/L		106	50 - 150
Perfluoroheptanoic acid (PFHpA)	1.97	2.02	J	ng/L		103	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	1.97	1.98	J	ng/L		100	50 - 150
Perfluorohexanoic acid (PFHxA)	1.97	2.13	J	ng/L		108	50 - 150
Perfluorononanoic acid (PFNA)	1.97	2.06	J	ng/L		105	50 - 150
Perfluorooctanesulfonic acid (PFOS)	1.97	2.11	J	ng/L		107	50 - 150
Perfluorooctanoic acid (PFOA)	1.97	2.14	J	ng/L		109	50 - 150
Perfluoroundecanoic acid (PFUnA)	1.97	2.12	J	ng/L		108	50 - 150
Perfluorobutanoic acid (PFBA)	1.97	2.12	J	ng/L		108	50 - 150
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	1.97	2.05	J	ng/L		104	50 - 150
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	1.97	2.14	J	ng/L		108	50 - 150
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	1.97	2.25	J	ng/L		114	50 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	1.97	2.05	J	ng/L		104	50 - 150
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	1.97	2.00	J	ng/L		102	50 - 150
Perfluoro-3-methoxypropanoic acid (PFMPA)	1.97	2.18	J	ng/L		111	50 - 150
Perfluoro-4-methoxybutanoic acid (PFMBA)	1.97	2.12	J	ng/L		108	50 - 150
Perfluoropentanoic acid (PFPeA)	1.97	1.92	J	ng/L		97	50 - 150
Perfluoroheptanesulfonic acid (PFHpS)	1.97	1.94	J	ng/L		98	50 - 150
Perfluoropentanesulfonic acid (PFPeS)	1.97	1.90	J	ng/L		97	50 - 150

Isotope Dilution	*MRL %Recovery*	*MRL Qualifier*	*Limits*
13C3 HFPO-DA	*100*		*50 - 200*
13C6 PFDA	*107*		*50 - 200*
13C5 PFHxA	*107*		*50 - 200*
13C4 PFHpA	*107*		*50 - 200*
13C8 PFOA	*108*		*50 - 200*
13C9 PFNA	*109*		*50 - 200*
13C7 PFUnA	*107*		*50 - 200*
13C2 PFDoA	*103*		*50 - 200*
13C4 PFBA	*113*		*50 - 200*
13C5 PFPeA	*112*		*50 - 200*
13C3 PFBS	*109*		*50 - 200*
13C3 PFHxS	*113*		*50 - 200*

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

Lab Sample ID: MRL 380-253322/21-A
Matrix: Water
Analysis Batch: 253409

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 253322

Isotope Dilution	*MRL %Recovery*	*MRL Qualifier*	*Limits*
13C8 PFOS	*112*		*50 - 200*
13C2-4:2-FTS	*112*		*50 - 200*
13C2-6:2-FTS	*117*		*50 - 200*
13C2-8:2-FTS	*117*		*50 - 200*

Lab Sample ID: 380-236896-B-1-A MS
Matrix: Water
Analysis Batch: 253409

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 253322

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	103		ng/L		87	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		118	107		ng/L		90	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		118	113		ng/L		95	70 - 130
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		118	110		ng/L		93	70 - 130
Perfluorobutanesulfonic acid (PFBS)	<2.0		118	105		ng/L		89	70 - 130
Perfluorodecanoic acid (PFDA)	<2.0		118	112		ng/L		95	70 - 130
Perfluorododecanoic acid (PFDoA)	<2.0		118	111		ng/L		94	70 - 130
Perfluoroheptanoic acid (PFHpA)	<2.0		118	112		ng/L		94	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	<2.0		118	108		ng/L		91	70 - 130
Perfluorohexanoic acid (PFHxA)	<2.0		118	111		ng/L		94	70 - 130
Perfluorononanoic acid (PFNA)	<2.0		118	110		ng/L		93	70 - 130
Perfluorooctanesulfonic acid (PFOS)	2.9		118	105		ng/L		86	70 - 130
Perfluorooctanoic acid (PFOA)	<2.0		118	110		ng/L		93	70 - 130
Perfluoroundecanoic acid (PFUnA)	<2.0		118	106		ng/L		90	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	108		ng/L		91	70 - 130
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		118	111		ng/L		94	70 - 130
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		118	111		ng/L		94	70 - 130
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		118	113		ng/L		96	70 - 130
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<2.0		118	108		ng/L		91	70 - 130
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		118	115		ng/L		98	70 - 130
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		118	110		ng/L		93	70 - 130
Perfluoropentanoic acid (PFPeA)	<2.0		118	112		ng/L		94	70 - 130
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		118	107		ng/L		91	70 - 130

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

Lab Sample ID: 380-236896-B-1-A MS
Matrix: Water
Analysis Batch: 253409

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 253322

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoropentanesulfonic acid (PFPeS)	<2.0		118	107		ng/L		90	70 - 130

Isotope Dilution	*MS %Recovery*	*MS Qualifier*	*Limits*
13C3 HFPO-DA	*102*		*50 - 200*
13C6 PFDA	*105*		*50 - 200*
13C5 PFHxA	*103*		*50 - 200*
13C4 PFHpA	*102*		*50 - 200*
13C8 PFOA	*106*		*50 - 200*
13C9 PFNA	*106*		*50 - 200*
13C7 PFUnA	*106*		*50 - 200*
13C2 PFDoA	*103*		*50 - 200*
13C4 PFBA	*109*		*50 - 200*
13C5 PFPeA	*106*		*50 - 200*
13C3 PFBS	*110*		*50 - 200*
13C3 PFHxS	*109*		*50 - 200*
13C8 PFOS	*112*		*50 - 200*
13C2-4:2-FTS	*111*		*50 - 200*
13C2-6:2-FTS	*113*		*50 - 200*
13C2-8:2-FTS	*115*		*50 - 200*

Lab Sample ID: 380-236896-C-1-A MSD
Matrix: Water
Analysis Batch: 253409

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 253322

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	103		ng/L		88	70 - 130	0	30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		118	107		ng/L		90	70 - 130	0	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		118	115		ng/L		98	70 - 130	2	30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		118	108		ng/L		92	70 - 130	2	30
Perfluorobutanesulfonic acid (PFBS)	<2.0		118	110		ng/L		94	70 - 130	5	30
Perfluorodecanoic acid (PFDA)	<2.0		118	113		ng/L		96	70 - 130	1	30
Perfluorododecanoic acid (PFDoA)	<2.0		118	110		ng/L		93	70 - 130	1	30
Perfluoroheptanoic acid (PFHpA)	<2.0		118	112		ng/L		95	70 - 130	1	30
Perfluorohexanesulfonic acid (PFHxS)	<2.0		118	109		ng/L		92	70 - 130	0	30
Perfluorohexanoic acid (PFHxA)	<2.0		118	110		ng/L		93	70 - 130	1	30
Perfluorononanoic acid (PFNA)	<2.0		118	110		ng/L		93	70 - 130	1	30
Perfluorooctanesulfonic acid (PFOS)	2.9		118	108		ng/L		89	70 - 130	3	30
Perfluorooctanoic acid (PFOA)	<2.0		118	112		ng/L		94	70 - 130	2	30
Perfluoroundecanoic acid (PFUnA)	<2.0		118	111		ng/L		94	70 - 130	5	30
Perfluorobutanoic acid (PFBA)	<2.0		118	110		ng/L		93	70 - 130	0	30

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

Lab Sample ID: 380-236896-C-1-A MSD
Matrix: Water
Analysis Batch: 253409

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 253322

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	109		ng/L		93	70 - 130	1	30
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		118	113		ng/L		96	70 - 130	2	30
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		118	107		ng/L		91	70 - 130	4	30
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		118	107		ng/L		90	70 - 130	6	30
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<2.0		118	115		ng/L		97	70 - 130	6	30
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		118	115		ng/L		98	70 - 130	0	30
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		118	111		ng/L		94	70 - 130	0	30
Perfluoropentanoic acid (PFPeA)	<2.0		118	109		ng/L		92	70 - 130	2	30
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		118	109		ng/L		93	70 - 130	2	30
Perfluoropentanesulfonic acid (PFPeS)	<2.0		118	111		ng/L		94	70 - 130	4	30

Isotope Dilution	*MSD %Recovery*	*MSD Qualifier*	*Limits*
13C3 HFPO-DA	*104*		*50 - 200*
13C6 PFDA	*104*		*50 - 200*
13C5 PFHxA	*104*		*50 - 200*
13C4 PFHpA	*101*		*50 - 200*
13C8 PFOA	*107*		*50 - 200*
13C9 PFNA	*107*		*50 - 200*
13C7 PFUnA	*103*		*50 - 200*
13C2 PFDoA	*104*		*50 - 200*
13C4 PFBA	*107*		*50 - 200*
13C5 PFPeA	*103*		*50 - 200*
13C3 PFBS	*106*		*50 - 200*
13C3 PFHxS	*105*		*50 - 200*
13C8 PFOS	*107*		*50 - 200*
13C2-4:2-FTS	*109*		*50 - 200*
13C2-6:2-FTS	*117*		*50 - 200*
13C2-8:2-FTS	*115*		*50 - 200*

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

Lab Sample ID: MBL 380-252432/20-A
Matrix: Water
Analysis Batch: 252624

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 252432

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		09/14/26 10:15	09/15/26 10:14	1
Perfluorooctanesulfonic acid (PFOS)	<0.42		2.0	ng/L		09/14/26 10:15	09/15/26 10:14	1
Perfluoroundecanoic acid (PFUnA)	<0.41		2.0	ng/L		09/14/26 10:15	09/15/26 10:14	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.57		2.0	ng/L		09/14/26 10:15	09/15/26 10:14	1

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

Lab Sample ID: MBL 380-252432/20-A
Matrix: Water
Analysis Batch: 252624

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 252432

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.41		2.0	ng/L		09/14/26 10:15	09/15/26 10:14	1
Perfluorohexanoic acid (PFHxA)	<0.45		2.0	ng/L		09/14/26 10:15	09/15/26 10:14	1
Perfluorododecanoic acid (PFDoA)	<0.53		2.0	ng/L		09/14/26 10:15	09/15/26 10:14	1
Perfluorooctanoic acid (PFOA)	<0.37		2.0	ng/L		09/14/26 10:15	09/15/26 10:14	1
Perfluorodecanoic acid (PFDA)	<0.30		2.0	ng/L		09/14/26 10:15	09/15/26 10:14	1
Perfluorohexanesulfonic acid (PFHxS)	<0.31		2.0	ng/L		09/14/26 10:15	09/15/26 10:14	1
Perfluorobutanesulfonic acid (PFBS)	<0.36		2.0	ng/L		09/14/26 10:15	09/15/26 10:14	1
Perfluoroheptanoic acid (PFHpA)	<0.38		2.0	ng/L		09/14/26 10:15	09/15/26 10:14	1
Perfluorononanoic acid (PFNA)	<0.39		2.0	ng/L		09/14/26 10:15	09/15/26 10:14	1
Perfluorotetradecanoic acid (PFTA)	<0.53		2.0	ng/L		09/14/26 10:15	09/15/26 10:14	1
Perfluorotridecanoic acid (PFTrDA)	<0.35		2.0	ng/L		09/14/26 10:15	09/15/26 10:14	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<0.29		2.0	ng/L		09/14/26 10:15	09/15/26 10:14	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<0.29		2.0	ng/L		09/14/26 10:15	09/15/26 10:14	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.59		2.0	ng/L		09/14/26 10:15	09/15/26 10:14	1

Surrogate	*MBL %Recovery*	*MBL Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*99*		*70 - 130*	*09/14/26 10:15*	*09/15/26 10:14*	*1*
13C2 PFHxA	*103*		*70 - 130*	*09/14/26 10:15*	*09/15/26 10:14*	*1*
13C2 PFDA	*100*		*70 - 130*	*09/14/26 10:15*	*09/15/26 10:14*	*1*
13C3-GenX	*86*		*70 - 130*	*09/14/26 10:15*	*09/15/26 10:14*	*1*

Lab Sample ID: LCS 380-252432/22-A
Matrix: Water
Analysis Batch: 252624

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 252432

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	49.1	35.8		ng/L		73	70 - 130
Perfluorooctanesulfonic acid (PFOS)	49.1	49.1		ng/L		100	70 - 130
Perfluoroundecanoic acid (PFUnA)	49.1	44.3		ng/L		90	70 - 130
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	49.1	47.4		ng/L		97	70 - 130
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	49.1	46.3		ng/L		94	70 - 130
Perfluorohexanoic acid (PFHxA)	49.1	45.3		ng/L		92	70 - 130
Perfluorododecanoic acid (PFDoA)	49.1	46.4		ng/L		94	70 - 130
Perfluorooctanoic acid (PFOA)	49.1	46.3		ng/L		94	70 - 130
Perfluorodecanoic acid (PFDA)	49.1	46.8		ng/L		95	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	49.1	49.9		ng/L		102	70 - 130
Perfluorobutanesulfonic acid (PFBS)	49.1	49.2		ng/L		100	70 - 130
Perfluoroheptanoic acid (PFHpA)	49.1	46.0		ng/L		94	70 - 130
Perfluorononanoic acid (PFNA)	49.1	51.2		ng/L		104	70 - 130

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

Lab Sample ID: LCS 380-252432/22-A
Matrix: Water
Analysis Batch: 252624

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 252432

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorotetradecanoic acid (PFTA)	49.1	43.2		ng/L		88	70 - 130
Perfluorotridecanoic acid (PFTrDA)	49.1	45.5		ng/L		93	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	49.1	48.0		ng/L		98	70 - 130
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	49.1	45.6		ng/L		93	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	49.1	41.2		ng/L		84	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
d5-NEtFOSAA	*92*		*70 - 130*
13C2 PFHxA	*93*		*70 - 130*
13C2 PFDA	*93*		*70 - 130*
13C3-GenX	*77*		*70 - 130*

Lab Sample ID: MRL 380-252432/21-A
Matrix: Water
Analysis Batch: 252624

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 252432

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	1.96	1.71	J	ng/L		87	50 - 150
Perfluorooctanesulfonic acid (PFOS)	1.96	2.15	J	ng/L		110	50 - 150
Perfluoroundecanoic acid (PFUnA)	1.96	1.98	J	ng/L		101	50 - 150
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	1.96	1.99	J	ng/L		101	50 - 150
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.96	2.01	J	ng/L		103	50 - 150
Perfluorohexanoic acid (PFHxA)	1.96	2.04	J	ng/L		104	50 - 150
Perfluorododecanoic acid (PFDoA)	1.96	2.00	J	ng/L		102	50 - 150
Perfluorooctanoic acid (PFOA)	1.96	2.06	J	ng/L		105	50 - 150
Perfluorodecanoic acid (PFDA)	1.96	1.96	J	ng/L		100	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	1.96	2.02	J	ng/L		103	50 - 150
Perfluorobutanesulfonic acid (PFBS)	1.96	2.01	J	ng/L		102	50 - 150
Perfluoroheptanoic acid (PFHpA)	1.96	2.07	J	ng/L		106	50 - 150
Perfluorononanoic acid (PFNA)	1.96	2.35	J	ng/L		120	50 - 150
Perfluorotetradecanoic acid (PFTA)	1.96	1.85	J	ng/L		94	50 - 150
Perfluorotridecanoic acid (PFTrDA)	1.96	2.10	J	ng/L		107	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	1.96	1.99	J	ng/L		101	50 - 150

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

Lab Sample ID: MRL 380-252432/21-A
Matrix: Water
Analysis Batch: 252624

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 252432

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	1.96	1.81	J	ng/L		92	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.96	1.89	J	ng/L		96	50 - 150

Surrogate	*MRL %Recovery*	*MRL Qualifier*	*Limits*
d5-NEtFOSAA	*99*		*70 - 130*
13C2 PFHxA	*104*		*70 - 130*
13C2 PFDA	*96*		*70 - 130*
13C3-GenX	*86*		*70 - 130*

Lab Sample ID: 380-235905-B-1-A MS
Matrix: Water
Analysis Batch: 252624

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 252432

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		24.6	20.1		ng/L		82	70 - 130
Perfluorooctanesulfonic acid (PFOS)	<2.0		24.6	26.1		ng/L		103	70 - 130
Perfluoroundecanoic acid (PFUnA)	<2.0		24.6	23.5		ng/L		96	70 - 130
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		24.6	24.5		ng/L		100	70 - 130
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		24.6	24.5		ng/L		100	70 - 130
Perfluorohexanoic acid (PFHxA)	<2.0		24.6	25.2		ng/L		97	70 - 130
Perfluorododecanoic acid (PFDoA)	<2.0		24.6	24.3		ng/L		99	70 - 130
Perfluorooctanoic acid (PFOA)	<2.0		24.6	23.8		ng/L		94	70 - 130
Perfluorodecanoic acid (PFDA)	<2.0		24.6	23.6		ng/L		96	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	<2.0		24.6	25.8		ng/L		102	70 - 130
Perfluorobutanesulfonic acid (PFBS)	<2.0		24.6	25.8		ng/L		101	70 - 130
Perfluoroheptanoic acid (PFHpA)	<2.0		24.6	24.9		ng/L		100	70 - 130
Perfluorononanoic acid (PFNA)	<2.0		24.6	26.9		ng/L		110	70 - 130
Perfluorotetradecanoic acid (PFTA)	<2.0		24.6	22.2		ng/L		91	70 - 130
Perfluorotridecanoic acid (PFTrDA)	<2.0		24.6	24.7		ng/L		101	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		24.6	25.0		ng/L		102	70 - 130
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		24.6	23.1		ng/L		94	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		24.6	23.0		ng/L		94	70 - 130

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

Lab Sample ID: 380-235905-B-1-A MS
Matrix: Water
Analysis Batch: 252624

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 252432

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
d5-NEtFOSAA	*100*		*70 - 130*
13C2 PFHxA	*101*		*70 - 130*
13C2 PFDA	*90*		*70 - 130*
13C3-GenX	*82*		*70 - 130*

Lab Sample ID: 380-235905-B-1-B MSD
Matrix: Water
Analysis Batch: 252624

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 252432

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		24.6	19.2		ng/L		78	70 - 130	5	30
Perfluorooctanesulfonic acid (PFOS)	<2.0		24.6	26.2		ng/L		104	70 - 130	1	30
Perfluoroundecanoic acid (PFUnA)	<2.0		24.6	21.9		ng/L		89	70 - 130	7	30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		24.6	24.6		ng/L		100	70 - 130	1	30
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		24.6	24.5		ng/L		99	70 - 130	0	30
Perfluorohexanoic acid (PFHxA)	<2.0		24.6	24.7		ng/L		95	70 - 130	2	30
Perfluorododecanoic acid (PFDoA)	<2.0		24.6	24.8		ng/L		101	70 - 130	2	30
Perfluorooctanoic acid (PFOA)	<2.0		24.6	23.3		ng/L		92	70 - 130	2	30
Perfluorodecanoic acid (PFDA)	<2.0		24.6	23.9		ng/L		97	70 - 130	1	30
Perfluorohexanesulfonic acid (PFHxS)	<2.0		24.6	26.2		ng/L		104	70 - 130	2	30
Perfluorobutanesulfonic acid (PFBS)	<2.0		24.6	26.6		ng/L		104	70 - 130	3	30
Perfluoroheptanoic acid (PFHpA)	<2.0		24.6	25.3		ng/L		101	70 - 130	2	30
Perfluorononanoic acid (PFNA)	<2.0		24.6	27.6		ng/L		112	70 - 130	2	30
Perfluorotetradecanoic acid (PFTA)	<2.0		24.6	24.0		ng/L		98	70 - 130	8	30
Perfluorotridecanoic acid (PFTrDA)	<2.0		24.6	24.8		ng/L		101	70 - 130	0	30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		24.6	25.2		ng/L		102	70 - 130	1	30
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		24.6	24.1		ng/L		98	70 - 130	4	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		24.6	23.3		ng/L		95	70 - 130	1	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
d5-NEtFOSAA	*101*		*70 - 130*
13C2 PFHxA	*101*		*70 - 130*
13C2 PFDA	*90*		*70 - 130*
13C3-GenX	*82*		*70 - 130*

QC Association Summary

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

Job ID: 380-236034-1
SDG: Site S1 PFAS 533/537.1

LCMS

Prep Batch: 252432

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-236034-1	BWS2153-S1-AQ	Total/NA	Water	537.1 DW	
380-236034-2	BWS2153-S1-FB	Total/NA	Water	537.1 DW	
MBL 380-252432/20-A	Method Blank	Total/NA	Water	537.1 DW	
LCS 380-252432/22-A	Lab Control Sample	Total/NA	Water	537.1 DW	
MRL 380-252432/21-A	Lab Control Sample	Total/NA	Water	537.1 DW	
380-235905-B-1-A MS	Matrix Spike	Total/NA	Water	537.1 DW	
380-235905-B-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	537.1 DW	

Analysis Batch: 252624

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-236034-1	BWS2153-S1-AQ	Total/NA	Water	EPA 537.1 V2	252432
380-236034-2	BWS2153-S1-FB	Total/NA	Water	EPA 537.1 V2	252432
MBL 380-252432/20-A	Method Blank	Total/NA	Water	EPA 537.1 V2	252432
LCS 380-252432/22-A	Lab Control Sample	Total/NA	Water	EPA 537.1 V2	252432
MRL 380-252432/21-A	Lab Control Sample	Total/NA	Water	EPA 537.1 V2	252432
380-235905-B-1-A MS	Matrix Spike	Total/NA	Water	EPA 537.1 V2	252432
380-235905-B-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	EPA 537.1 V2	252432

Prep Batch: 252759

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-236034-2	BWS2153-S1-FB	Total/NA	Water	533	
MBL 380-252759/20-A	Method Blank	Total/NA	Water	533	
LCS 380-252759/22-A	Lab Control Sample	Total/NA	Water	533	
MRL 380-252759/21-A	Lab Control Sample	Total/NA	Water	533	
380-235924-E-1-A MS	Matrix Spike	Total/NA	Water	533	
380-235924-F-1-A MSD	Matrix Spike Duplicate	Total/NA	Water	533	

Analysis Batch: 252933

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-236034-2	BWS2153-S1-FB	Total/NA	Water	533	252759
MBL 380-252759/20-A	Method Blank	Total/NA	Water	533	252759
LCS 380-252759/22-A	Lab Control Sample	Total/NA	Water	533	252759
MRL 380-252759/21-A	Lab Control Sample	Total/NA	Water	533	252759
380-235924-E-1-A MS	Matrix Spike	Total/NA	Water	533	252759
380-235924-F-1-A MSD	Matrix Spike Duplicate	Total/NA	Water	533	252759

Prep Batch: 253322

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-236034-1	BWS2153-S1-AQ	Total/NA	Water	533	
MBL 380-253322/20-A	Method Blank	Total/NA	Water	533	
LCS 380-253322/22-A	Lab Control Sample	Total/NA	Water	533	
MRL 380-253322/21-A	Lab Control Sample	Total/NA	Water	533	
380-236896-B-1-A MS	Matrix Spike	Total/NA	Water	533	
380-236896-C-1-A MSD	Matrix Spike Duplicate	Total/NA	Water	533	

Analysis Batch: 253409

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-236034-1	BWS2153-S1-AQ	Total/NA	Water	533	253322
MBL 380-253322/20-A	Method Blank	Total/NA	Water	533	253322
LCS 380-253322/22-A	Lab Control Sample	Total/NA	Water	533	253322
MRL 380-253322/21-A	Lab Control Sample	Total/NA	Water	533	253322

LCMS (Continued)

Analysis Batch: 253409 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-236896-B-1-A MS	Matrix Spike	Total/NA	Water	533	253322
380-236896-C-1-A MSD	Matrix Spike Duplicate	Total/NA	Water	533	253322

Lab Chronicle

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

Job ID: 380-236034-1
SDG: Site S1 PFAS 533/537.1

Client Sample ID: BWS2153-S1-AQ

Lab Sample ID: 380-236034-1

Date Collected: 09/09/26 13:45
Matrix: Water
Date Received: 09/11/26 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			253322	G9MN	EA POM	09/18/26 03:00
Total/NA	Analysis	533		1	253409	Y5FM	EA POM	09/18/26 15:49
Total/NA	Prep	537.1 DW			252432	LM3A	EA POM	09/14/26 10:15
Total/NA	Analysis	EPA 537.1 V2		1	252624	M7ML	EA POM	09/15/26 13:54

Client Sample ID: BWS2153-S1-FB

Lab Sample ID: 380-236034-2

Date Collected: 09/09/26 13:45
Matrix: Water
Date Received: 09/11/26 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			252759	E2HD	EA POM	09/15/26 17:20
Total/NA	Analysis	533		1	252933	UKDT	EA POM	09/17/26 01:38
Total/NA	Prep	537.1 DW			252432	LM3A	EA POM	09/14/26 10:15
Total/NA	Analysis	EPA 537.1 V2		1	252624	M7ML	EA POM	09/15/26 14:04

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: INTERA - Red-Hill-Incident

Job ID: 380-236034-1
SDG: Site S1 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: 380-236034-1
SDG: Site S1 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: 380-236034-1
SDG: Site S1 PFAS 533/537.1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
380-236034-1	BWS2153-S1-AQ	Water	09/09/26 13:45	09/11/26 09:40	Hawaii
380-236034-2	BWS2153-S1-FB	Water	09/09/26 13:45	09/11/26 09:40	Hawaii

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

Chain of Custody Record

eurofins | Environment Testing

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: S1	SSOW#:			

Analysis Requested

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

Other: 380-236034 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)	[illegible]	533 - All Analytes	537.1_DW_PREC - 537.1 Full List	Total Number of containers	Special Instructions/Note:
			Preservation Code		X	X	I	Y	X	
BWS2153-S1-AQ	9/9/26	1.45	G	Water	N	N	3	3	6	
BWS2153-S1-FB	"	"	G	Water	N	N	1	1	2	FIELD 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: FC		
Relinquished by: [signature]	Date/Time: 9/10/26 14 00	Company: INTERA, INC	Received by: [signature]	Date/Time: 9/11/26 940	Company: EEAP
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: 750A) 0.9/0.7 Ice-Trace		

Ver 05/06/2024

9/21/2026

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

Chain of Custody Record

eurofins | Environment Testing

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: S1	SSOW#:			

Analysis Requested

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

Other: 380-236034 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)	[illegible]	533 - All Analytes	537.1_DW_PREC - 537.1 Full List	Total Number of containers	Special Instructions/Note:
			Preservation Code		X	X	I	Y	X	
BWS2153-S1-AQ	9/9/26	1.45	G	Water	N	N	3	3	6	
BWS2153-S1-FB	"	"	G	Water	N	N	1	1	2	FIELD 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: FC		
Relinquished by: [signature]	Date/Time: 9/10/26 14 00	Company: INTERA, INC	Received by: [signature]	Date/Time: 9/11/26 940	Company: EEAP
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: 750A) 0.9/0.7 Ice-Trace		

Ver 05/06/2024

9/21/2026

Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-236034-1
SDG Number: Site S1 PFAS 533/537.1

Login Number: 236034
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	