

ANALYTICAL REPORT

PREPARED FOR

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JOB DESCRIPTION

INTERA - Red-Hill-Incident
Site H1 PFAS 533/537.1

JOB NUMBER

380-227877-1

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



Authorized for release by
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Definitions/Glossary

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

Job ID: 380-227877-1
SDG: Site H1 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

Case Narrative

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

Job ID: 380-227877-1

Job ID: 380-227877-1

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Job Narrative 380-227877-1

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

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

Receipt

The samples were received on 7/29/2026 10:40 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 1.0°C.

PFAS

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

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Detection Summary

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

Job ID: 380-227877-1
SDG: Site H1 PFAS 533/537.1

Client Sample ID: BWS2253-H1-AQ

Lab Sample ID: 380-227877-1

No Detections.

Client Sample ID: BWS2253-H1-FB

Lab Sample ID: 380-227877-2

No Detections.

This Detection Summary does not include radiochemical test results.

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Client Sample Results

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

Job ID: 380-227877-1
SDG: Site H1 PFAS 533/537.1

Client Sample ID: BWS2253-H1-AQ

Lab Sample ID: 380-227877-1

Date Collected: 07/28/26 09:00

Matrix: Water

Date Received: 07/29/26 10:40

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		07/30/26 17:43	07/31/26 10:12	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		07/30/26 17:43	07/31/26 10:12	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		07/30/26 17:43	07/31/26 10:12	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		07/30/26 17:43	07/31/26 10:12	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		07/30/26 17:43	07/31/26 10:12	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		07/30/26 17:43	07/31/26 10:12	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		07/30/26 17:43	07/31/26 10:12	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		07/30/26 17:43	07/31/26 10:12	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		07/30/26 17:43	07/31/26 10:12	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		07/30/26 17:43	07/31/26 10:12	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		07/30/26 17:43	07/31/26 10:12	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		07/30/26 17:43	07/31/26 10:12	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		07/30/26 17:43	07/31/26 10:12	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		07/30/26 17:43	07/31/26 10:12	1
Perfluorobutanoic acid (PFBA)	<2.0		2.0	ng/L		07/30/26 17:43	07/31/26 10:12	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0	ng/L		07/30/26 17:43	07/31/26 10:12	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0	ng/L		07/30/26 17:43	07/31/26 10:12	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0	ng/L		07/30/26 17:43	07/31/26 10:12	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		2.0	ng/L		07/30/26 17:43	07/31/26 10:12	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<2.0		2.0	ng/L		07/30/26 17:43	07/31/26 10:12	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		07/30/26 17:43	07/31/26 10:12	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		07/30/26 17:43	07/31/26 10:12	1
Perfluoropentanoic acid (PFPeA)	<2.0		2.0	ng/L		07/30/26 17:43	07/31/26 10:12	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		07/30/26 17:43	07/31/26 10:12	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		07/30/26 17:43	07/31/26 10:12	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	107		50 - 200	07/30/26 17:43	07/31/26 10:12	1
13C6 PFDA	99		50 - 200	07/30/26 17:43	07/31/26 10:12	1
13C5 PFHxA	111		50 - 200	07/30/26 17:43	07/31/26 10:12	1
13C4 PFHpA	108		50 - 200	07/30/26 17:43	07/31/26 10:12	1
13C8 PFOA	110		50 - 200	07/30/26 17:43	07/31/26 10:12	1
13C9 PFNA	111		50 - 200	07/30/26 17:43	07/31/26 10:12	1
13C7 PFUnA	104		50 - 200	07/30/26 17:43	07/31/26 10:12	1
13C2 PFDoA	111		50 - 200	07/30/26 17:43	07/31/26 10:12	1
13C4 PFBA	108		50 - 200	07/30/26 17:43	07/31/26 10:12	1
13C5 PFPeA	113		50 - 200	07/30/26 17:43	07/31/26 10:12	1
13C3 PFBS	112		50 - 200	07/30/26 17:43	07/31/26 10:12	1
13C3 PFHxS	112		50 - 200	07/30/26 17:43	07/31/26 10:12	1
13C8 PFOS	115		50 - 200	07/30/26 17:43	07/31/26 10:12	1

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Client Sample Results

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

Job ID: 380-227877-1
SDG: Site H1 PFAS 533/537.1

Client Sample ID: BWS2253-H1-AQ

Lab Sample ID: 380-227877-1

Date Collected: 07/28/26 09:00

Matrix: Water

Date Received: 07/29/26 10:40

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	116		50 - 200	07/30/26 17:43	07/31/26 10:12	1
13C2-6:2-FTS	106		50 - 200	07/30/26 17:43	07/31/26 10:12	1
13C2-8:2-FTS	94		50 - 200	07/30/26 17:43	07/31/26 10:12	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		07/30/26 09:35	07/31/26 10:13	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		07/30/26 09:35	07/31/26 10:13	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		07/30/26 09:35	07/31/26 10:13	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		2.0	ng/L		07/30/26 09:35	07/31/26 10:13	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		2.0	ng/L		07/30/26 09:35	07/31/26 10:13	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		07/30/26 09:35	07/31/26 10:13	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		07/30/26 09:35	07/31/26 10:13	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		07/30/26 09:35	07/31/26 10:13	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		07/30/26 09:35	07/31/26 10:13	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		07/30/26 09:35	07/31/26 10:13	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		07/30/26 09:35	07/31/26 10:13	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		07/30/26 09:35	07/31/26 10:13	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		07/30/26 09:35	07/31/26 10:13	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0	ng/L		07/30/26 09:35	07/31/26 10:13	1
Perfluorotridecanoic acid (PFTTrDA)	<2.0		2.0	ng/L		07/30/26 09:35	07/31/26 10:13	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		07/30/26 09:35	07/31/26 10:13	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		07/30/26 09:35	07/31/26 10:13	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		07/30/26 09:35	07/31/26 10:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	111		70 - 130			07/30/26 09:35	07/31/26 10:13	1
13C2 PFHxA	113		70 - 130			07/30/26 09:35	07/31/26 10:13	1
13C2 PFDA	112		70 - 130			07/30/26 09:35	07/31/26 10:13	1
13C3-GenX	104		70 - 130			07/30/26 09:35	07/31/26 10:13	1

Client Sample ID: BWS2253-H1-FB

Lab Sample ID: 380-227877-2

Date Collected: 07/28/26 09:00

Matrix: Water

Date Received: 07/29/26 10:40

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		07/30/26 17:43	07/31/26 10:22	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		07/30/26 17:43	07/31/26 10:22	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		07/30/26 17:43	07/31/26 10:22	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		07/30/26 17:43	07/31/26 10:22	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		07/30/26 17:43	07/31/26 10:22	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		07/30/26 17:43	07/31/26 10:22	1

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Client Sample Results

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

Job ID: 380-227877-1
SDG: Site H1 PFAS 533/537.1

Client Sample ID: BWS2253-H1-FB

Lab Sample ID: 380-227877-2

Date Collected: 07/28/26 09:00

Matrix: Water

Date Received: 07/29/26 10:40

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		07/30/26 17:43	07/31/26 10:22	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		07/30/26 17:43	07/31/26 10:22	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		07/30/26 17:43	07/31/26 10:22	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		07/30/26 17:43	07/31/26 10:22	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		07/30/26 17:43	07/31/26 10:22	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		07/30/26 17:43	07/31/26 10:22	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		07/30/26 17:43	07/31/26 10:22	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		07/30/26 17:43	07/31/26 10:22	1
Perfluorobutanoic acid (PFBA)	<2.0		2.0	ng/L		07/30/26 17:43	07/31/26 10:22	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0	ng/L		07/30/26 17:43	07/31/26 10:22	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0	ng/L		07/30/26 17:43	07/31/26 10:22	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0	ng/L		07/30/26 17:43	07/31/26 10:22	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		2.0	ng/L		07/30/26 17:43	07/31/26 10:22	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEA)	<2.0		2.0	ng/L		07/30/26 17:43	07/31/26 10:22	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		07/30/26 17:43	07/31/26 10:22	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		07/30/26 17:43	07/31/26 10:22	1
Perfluoropentanoic acid (PFPeA)	<2.0		2.0	ng/L		07/30/26 17:43	07/31/26 10:22	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		07/30/26 17:43	07/31/26 10:22	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		07/30/26 17:43	07/31/26 10:22	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	117		50 - 200	07/30/26 17:43	07/31/26 10:22	1
13C6 PFDA	105		50 - 200	07/30/26 17:43	07/31/26 10:22	1
13C5 PFHxA	119		50 - 200	07/30/26 17:43	07/31/26 10:22	1
13C4 PFHpA	124		50 - 200	07/30/26 17:43	07/31/26 10:22	1
13C8 PFOA	119		50 - 200	07/30/26 17:43	07/31/26 10:22	1
13C9 PFNA	118		50 - 200	07/30/26 17:43	07/31/26 10:22	1
13C7 PFUnA	117		50 - 200	07/30/26 17:43	07/31/26 10:22	1
13C2 PFDoA	119		50 - 200	07/30/26 17:43	07/31/26 10:22	1
13C4 PFBA	115		50 - 200	07/30/26 17:43	07/31/26 10:22	1
13C5 PFPeA	116		50 - 200	07/30/26 17:43	07/31/26 10:22	1
13C3 PFBS	122		50 - 200	07/30/26 17:43	07/31/26 10:22	1
13C3 PFHxS	122		50 - 200	07/30/26 17:43	07/31/26 10:22	1
13C8 PFOS	125		50 - 200	07/30/26 17:43	07/31/26 10:22	1
13C2-4:2-FTS	118		50 - 200	07/30/26 17:43	07/31/26 10:22	1
13C2-6:2-FTS	109		50 - 200	07/30/26 17:43	07/31/26 10:22	1
13C2-8:2-FTS	103		50 - 200	07/30/26 17:43	07/31/26 10:22	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		07/30/26 09:35	07/31/26 10:23	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		07/30/26 09:35	07/31/26 10:23	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		07/30/26 09:35	07/31/26 10:23	1

Eurofins Pomona

Client Sample Results

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

Job ID: 380-227877-1
SDG: Site H1 PFAS 533/537.1

Client Sample ID: BWS2253-H1-FB

Lab Sample ID: 380-227877-2

Date Collected: 07/28/26 09:00

Matrix: Water

Date Received: 07/29/26 10:40

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		07/30/26 09:35	07/31/26 10:23	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		2.0	ng/L		07/30/26 09:35	07/31/26 10:23	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		07/30/26 09:35	07/31/26 10:23	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		07/30/26 09:35	07/31/26 10:23	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		07/30/26 09:35	07/31/26 10:23	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		07/30/26 09:35	07/31/26 10:23	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		07/30/26 09:35	07/31/26 10:23	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		07/30/26 09:35	07/31/26 10:23	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		07/30/26 09:35	07/31/26 10:23	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		07/30/26 09:35	07/31/26 10:23	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0	ng/L		07/30/26 09:35	07/31/26 10:23	1
Perfluorotridecanoic acid (PFTrDA)	<2.0		2.0	ng/L		07/30/26 09:35	07/31/26 10:23	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		07/30/26 09:35	07/31/26 10:23	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		07/30/26 09:35	07/31/26 10:23	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		07/30/26 09:35	07/31/26 10:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	103		70 - 130			07/30/26 09:35	07/31/26 10:23	1
13C2 PFHxA	115		70 - 130			07/30/26 09:35	07/31/26 10:23	1
13C2 PFDA	115		70 - 130			07/30/26 09:35	07/31/26 10:23	1
13C3-GenX	107		70 - 130			07/30/26 09:35	07/31/26 10:23	1

Action Limit Summary

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

Job ID: 380-227877-1
SDG: Site H1 PFAS 533/537.1

Client Sample ID: BWS2253-H1-AQ

Lab Sample ID: 380-227877-1

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

Client Sample ID: BWS2253-H1-FB

Lab Sample ID: 380-227877-2

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

Surrogate Summary

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

Job ID: 380-227877-1
SDG: Site H1 PFAS 533/537.1

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		d5NEFOS (70-130)	PFHxA (70-130)	PFDA (70-130)	GenX (70-130)
380-227787-B-1-A MS	Matrix Spike	109	112	110	108
380-227787-C-1-A MSD	Matrix Spike Duplicate	104	108	116	102
380-227877-1	BWS2253-H1-AQ	111	113	112	104
380-227877-2	BWS2253-H1-FB	103	115	115	107
LCS 380-243415/21-A	Lab Control Sample	98	103	113	93
MBL 380-243415/19-A	Method Blank	95	98	107	85
MRL 380-243415/20-A	Lab Control Sample	101	109	116	94

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: 380-227877-1
SDG: Site H1 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)	PFDaA (50-200)
380-227869-B-1-A MS	Matrix Spike	106	96	112	109	107	106	105	106
380-227869-C-1-A MSD	Matrix Spike Duplicate	101	93	107	105	104	103	101	101
380-227877-1	BWS2253-H1-AQ	107	99	111	108	110	111	104	111
380-227877-2	BWS2253-H1-FB	117	105	119	124	119	118	117	119
LCS 380-243554/22-A	Lab Control Sample	106	97	110	110	109	110	108	111
MBL 380-243554/20-A	Method Blank	113	103	122	118	115	118	116	122
MRL 380-243554/21-A	Lab Control Sample	111	100	110	112	111	110	109	112

		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)
380-227869-B-1-A MS	Matrix Spike	100	111	109	112	108	107	97	90
380-227869-C-1-A MSD	Matrix Spike Duplicate	102	113	109	111	107	107	95	85
380-227877-1	BWS2253-H1-AQ	108	113	112	112	115	116	106	94
380-227877-2	BWS2253-H1-FB	115	116	122	122	125	118	109	103
LCS 380-243554/22-A	Lab Control Sample	104	108	110	113	110	99	98	92
MBL 380-243554/20-A	Method Blank	112	117	118	118	117	108	100	92
MRL 380-243554/21-A	Lab Control Sample	110	111	116	117	115	94	97	91

Surrogate Legend

HFPODA = 13C3 HFPO-DA
C6PFDA = 13C6 PFDA
13C5PHA = 13C5 PFHxA
C4PFHA = 13C4 PFHpA
C8PFOA = 13C8 PFOA
C9PFNA = 13C9 PFNA
13C7PUA = 13C7 PFUnA
PFDaA = 13C2 PFDaA
PFBA = 13C4 PFBA
PFPeA = 13C5 PFPeA
C3PFBS = 13C3 PFBS
C3PFHS = 13C3 PFHxS
C8PFOS = 13C8 PFOS
42FTS = 13C2-4:2-FTS
62FTS = 13C2-6:2-FTS
82FTS = 13C2-8:2-FTS

QC Sample Results

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

Job ID: 380-227877-1
SDG: Site H1 PFAS 533/537.1

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

Lab Sample ID: MBL 380-243554/20-A
Matrix: Water
Analysis Batch: 243639

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 243554

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS)	<0.29		2.0	ng/L		07/30/26 17:43	07/31/26 06:44	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS)	<0.29		2.0	ng/L		07/30/26 17:43	07/31/26 06:44	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.59		2.0	ng/L		07/30/26 17:43	07/31/26 06:44	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<0.98		2.0	ng/L		07/30/26 17:43	07/31/26 06:44	1
Perfluorobutanesulfonic acid (PFBS)	<0.36		2.0	ng/L		07/30/26 17:43	07/31/26 06:44	1
Perfluorodecanoic acid (PFDA)	<0.30		2.0	ng/L		07/30/26 17:43	07/31/26 06:44	1
Perfluorododecanoic acid (PFDoA)	<0.53		2.0	ng/L		07/30/26 17:43	07/31/26 06:44	1
Perfluoroheptanoic acid (PFHpA)	<0.38		2.0	ng/L		07/30/26 17:43	07/31/26 06:44	1
Perfluorohexanesulfonic acid (PFHxS)	<0.31		2.0	ng/L		07/30/26 17:43	07/31/26 06:44	1
Perfluorohexanoic acid (PFHxA)	<0.45		2.0	ng/L		07/30/26 17:43	07/31/26 06:44	1
Perfluorononanoic acid (PFNA)	<0.39		2.0	ng/L		07/30/26 17:43	07/31/26 06:44	1
Perfluorooctanesulfonic acid (PFOS)	<0.42		2.0	ng/L		07/30/26 17:43	07/31/26 06:44	1
Perfluorooctanoic acid (PFOA)	<0.37		2.0	ng/L		07/30/26 17:43	07/31/26 06:44	1
Perfluoroundecanoic acid (PFUnA)	<0.41		2.0	ng/L		07/30/26 17:43	07/31/26 06:44	1
Perfluorobutanoic acid (PFBA)	<0.68		2.0	ng/L		07/30/26 17:43	07/31/26 06:44	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<0.37		2.0	ng/L		07/30/26 17:43	07/31/26 06:44	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<0.36		2.0	ng/L		07/30/26 17:43	07/31/26 06:44	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<0.47		2.0	ng/L		07/30/26 17:43	07/31/26 06:44	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.46		2.0	ng/L		07/30/26 17:43	07/31/26 06:44	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<0.24		2.0	ng/L		07/30/26 17:43	07/31/26 06:44	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.45		2.0	ng/L		07/30/26 17:43	07/31/26 06:44	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.15		2.0	ng/L		07/30/26 17:43	07/31/26 06:44	1
Perfluoropentanoic acid (PFPeA)	<0.37		2.0	ng/L		07/30/26 17:43	07/31/26 06:44	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.35		2.0	ng/L		07/30/26 17:43	07/31/26 06:44	1
Perfluoropentanesulfonic acid (PFPeS)	<0.38		2.0	ng/L		07/30/26 17:43	07/31/26 06:44	1
Isotope Dilution	MBL %Recovery	MBL Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	113		50 - 200			07/30/26 17:43	07/31/26 06:44	1
13C6 PFDA	103		50 - 200			07/30/26 17:43	07/31/26 06:44	1
13C5 PFHxA	122		50 - 200			07/30/26 17:43	07/31/26 06:44	1
13C4 PFHpA	118		50 - 200			07/30/26 17:43	07/31/26 06:44	1
13C8 PFOA	115		50 - 200			07/30/26 17:43	07/31/26 06:44	1
13C9 PFNA	118		50 - 200			07/30/26 17:43	07/31/26 06:44	1
13C7 PFUnA	116		50 - 200			07/30/26 17:43	07/31/26 06:44	1
13C2 PFDoA	122		50 - 200			07/30/26 17:43	07/31/26 06:44	1
13C4 PFBA	112		50 - 200			07/30/26 17:43	07/31/26 06:44	1
13C5 PFPeA	117		50 - 200			07/30/26 17:43	07/31/26 06:44	1
13C3 PFBS	118		50 - 200			07/30/26 17:43	07/31/26 06:44	1
13C3 PFHxS	118		50 - 200			07/30/26 17:43	07/31/26 06:44	1

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QC Sample Results

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

Job ID: 380-227877-1
SDG: Site H1 PFAS 533/537.1

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

Lab Sample ID: MBL 380-243554/20-A

Matrix: Water

Analysis Batch: 243639

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 243554

Isotope Dilution	MBL %Recovery	MBL Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOS	117		50 - 200	07/30/26 17:43	07/31/26 06:44	1
13C2-4:2-FTS	108		50 - 200	07/30/26 17:43	07/31/26 06:44	1
13C2-6:2-FTS	100		50 - 200	07/30/26 17:43	07/31/26 06:44	1
13C2-8:2-FTS	92		50 - 200	07/30/26 17:43	07/31/26 06:44	1

Lab Sample ID: LCS 380-243554/22-A

Matrix: Water

Analysis Batch: 243639

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 243554

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	118	104		ng/L		88	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	118	100		ng/L		85	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	118	103		ng/L		88	70 - 130
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	118	107		ng/L		91	70 - 130
Perfluorobutanesulfonic acid (PFBS)	118	107		ng/L		91	70 - 130
Perfluorodecanoic acid (PFDA)	118	112		ng/L		95	70 - 130
Perfluorododecanoic acid (PFDoA)	118	106		ng/L		90	70 - 130
Perfluoroheptanoic acid (PFHpA)	118	103		ng/L		87	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	118	105		ng/L		89	70 - 130
Perfluorohexanoic acid (PFHxA)	118	109		ng/L		92	70 - 130
Perfluorononanoic acid (PFNA)	118	102		ng/L		87	70 - 130
Perfluorooctanesulfonic acid (PFOS)	118	105		ng/L		89	70 - 130
Perfluorooctanoic acid (PFOA)	118	108		ng/L		91	70 - 130
Perfluoroundecanoic acid (PFUnA)	118	103		ng/L		87	70 - 130
Perfluorobutanoic acid (PFBA)	118	105		ng/L		89	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	101		ng/L		86	70 - 130
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	118	107		ng/L		91	70 - 130
Nonfluoro-3,6-dioxaheptanoic acid (NFDHA)	118	97.6		ng/L		83	70 - 130
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	118	104		ng/L		88	70 - 130
Perfluoro-3-methoxypropanoic acid (PFMPA)	118	108		ng/L		92	70 - 130
Perfluoro-4-methoxybutanoic acid (PFMBA)	118	107		ng/L		90	70 - 130
Perfluoropentanoic acid (PFPeA)	118	110		ng/L		93	70 - 130
Perfluoroheptanesulfonic acid (PFHpS)	118	107		ng/L		91	70 - 130

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QC Sample Results

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

Job ID: 380-227877-1
SDG: Site H1 PFAS 533/537.1

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

Lab Sample ID: LCS 380-243554/22-A

Matrix: Water

Analysis Batch: 243639

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 243554

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoropentanesulfonic acid (PFPeS)	118	111		ng/L		94	70 - 130
		LCS	LCS				
		%Recovery	Qualifier	Limits			
13C3 HFPO-DA	106			50 - 200			
13C6 PFDA	97			50 - 200			
13C5 PFHxA	110			50 - 200			
13C4 PFHpA	110			50 - 200			
13C8 PFOA	109			50 - 200			
13C9 PFNA	110			50 - 200			
13C7 PFUnA	108			50 - 200			
13C2 PFDoA	111			50 - 200			
13C4 PFBA	104			50 - 200			
13C5 PFPeA	108			50 - 200			
13C3 PFBS	110			50 - 200			
13C3 PFHxS	113			50 - 200			
13C8 PFOS	110			50 - 200			
13C2-4:2-FTS	99			50 - 200			
13C2-6:2-FTS	98			50 - 200			
13C2-8:2-FTS	92			50 - 200			

Lab Sample ID: MRL 380-243554/21-A

Matrix: Water

Analysis Batch: 243639

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 243554

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	1.97	1.87	J	ng/L		95	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	1.97	1.87	J	ng/L		95	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.97	1.98	J	ng/L		100	50 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	1.97	1.92	J	ng/L		97	50 - 150
Perfluorobutanesulfonic acid (PFBS)	1.97	1.95	J	ng/L		99	50 - 150
Perfluorodecanoic acid (PFDA)	1.97	2.06	J	ng/L		105	50 - 150
Perfluorododecanoic acid (PFDoA)	1.97	1.89	J	ng/L		96	50 - 150
Perfluoroheptanoic acid (PFHpA)	1.97	1.92	J	ng/L		97	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	1.97	1.81	J	ng/L		92	50 - 150
Perfluorohexanoic acid (PFHxA)	1.97	1.99	J	ng/L		101	50 - 150
Perfluorononanoic acid (PFNA)	1.97	1.90	J	ng/L		96	50 - 150
Perfluorooctanesulfonic acid (PFOS)	1.97	1.90	J	ng/L		96	50 - 150
Perfluorooctanoic acid (PFOA)	1.97	1.97	J	ng/L		100	50 - 150
Perfluoroundecanoic acid (PFUnA)	1.97	1.86	J	ng/L		94	50 - 150
Perfluorobutanoic acid (PFBA)	1.97	2.00	J	ng/L		101	50 - 150

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QC Sample Results

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

Job ID: 380-227877-1
SDG: Site H1 PFAS 533/537.1

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

Lab Sample ID: MRL 380-243554/21-A

Matrix: Water

Analysis Batch: 243639

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 243554

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	1.97	2.05	J	ng/L		104	50 - 150
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	1.97	2.04	J	ng/L		104	50 - 150
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	1.97	2.05	J	ng/L		104	50 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	1.97	1.57	J	ng/L		80	50 - 150
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEA)	1.97	2.33	J	ng/L		118	50 - 150
Perfluoro-3-methoxypropanoic acid (PFMPA)	1.97	1.90	J	ng/L		97	50 - 150
Perfluoro-4-methoxybutanoic acid (PFMBA)	1.97	1.97	J	ng/L		100	50 - 150
Perfluoropentanoic acid (PFPeA)	1.97	1.92	J	ng/L		97	50 - 150
Perfluoroheptanesulfonic acid (PFHpS)	1.97	1.75	J	ng/L		89	50 - 150
Perfluoropentanesulfonic acid (PFPeS)	1.97	1.88	J	ng/L		95	50 - 150

Isotope Dilution	%Recovery	MRL Qualifier	MRL Limits
13C3 HFPO-DA	111		50 - 200
13C6 PFDA	100		50 - 200
13C5 PFHxA	110		50 - 200
13C4 PFHpA	112		50 - 200
13C8 PFOA	111		50 - 200
13C9 PFNA	110		50 - 200
13C7 PFUnA	109		50 - 200
13C2 PFDoA	112		50 - 200
13C4 PFBA	110		50 - 200
13C5 PFPeA	111		50 - 200
13C3 PFBS	116		50 - 200
13C3 PFHxS	117		50 - 200
13C8 PFOS	115		50 - 200
13C2-4:2-FTS	94		50 - 200
13C2-6:2-FTS	97		50 - 200
13C2-8:2-FTS	91		50 - 200

Lab Sample ID: 380-227869-B-1-A MS

Matrix: Water

Analysis Batch: 243639

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 243554

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		59.2	51.2		ng/L		86	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		59.2	51.3		ng/L		87	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		59.2	53.9		ng/L		91	70 - 130

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QC Sample Results

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

Job ID: 380-227877-1
SDG: Site H1 PFAS 533/537.1

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

Lab Sample ID: 380-227869-B-1-A MS

Matrix: Water

Analysis Batch: 243639

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 243554

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Hexafluoropropylene Oxide	<2.0		59.2	55.1		ng/L		93	70 - 130
Dimer Acid (HFPO-DA/GenX)									
Perfluorobutanesulfonic acid (PFBS)	7.1		59.2	60.6		ng/L		90	70 - 130
Perfluorodecanoic acid (PFDA)	<2.0		59.2	57.3		ng/L		97	70 - 130
Perfluorododecanoic acid (PFDoA)	<2.0		59.2	55.2		ng/L		93	70 - 130
Perfluoroheptanoic acid (PFHpA)	<2.0		59.2	54.9		ng/L		91	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	8.5		59.2	62.6		ng/L		91	70 - 130
Perfluorohexanoic acid (PFHxA)	2.5		59.2	56.1		ng/L		91	70 - 130
Perfluorononanoic acid (PFNA)	<2.0		59.2	56.0		ng/L		92	70 - 130
Perfluorooctanesulfonic acid (PFOS)	11		59.2	64.7		ng/L		91	70 - 130
Perfluorooctanoic acid (PFOA)	4.9		59.2	59.4		ng/L		92	70 - 130
Perfluoroundecanoic acid (PFUnA)	<2.0		59.2	52.3		ng/L		88	70 - 130
Perfluorobutanoic acid (PFBA)	5.5		59.2	59.3		ng/L		91	70 - 130
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		59.2	54.6		ng/L		92	70 - 130
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		59.2	52.5		ng/L		89	70 - 130
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		59.2	56.0		ng/L		95	70 - 130
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		59.2	48.3		ng/L		82	70 - 130
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEA)	<2.0		59.2	53.2		ng/L		90	70 - 130
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		59.2	54.1		ng/L		91	70 - 130
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		59.2	55.3		ng/L		93	70 - 130
Perfluoropentanoic acid (PFPeA)	2.6		59.2	60.0		ng/L		97	70 - 130
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		59.2	54.4		ng/L		91	70 - 130
Perfluoropentanesulfonic acid (PFPeS)	<2.0		59.2	57.3		ng/L		95	70 - 130

Isotope Dilution	MS %Recovery	MS Qualifier	Limits
13C3 HFPO-DA	106		50 - 200
13C6 PFDA	96		50 - 200
13C5 PFHxA	112		50 - 200
13C4 PFHpA	109		50 - 200
13C8 PFOA	107		50 - 200
13C9 PFNA	106		50 - 200
13C7 PFUnA	105		50 - 200
13C2 PFDoA	106		50 - 200
13C4 PFBA	100		50 - 200
13C5 PFPeA	111		50 - 200
13C3 PFBS	109		50 - 200
13C3 PFHxS	112		50 - 200
13C8 PFOS	108		50 - 200

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QC Sample Results

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

Job ID: 380-227877-1
SDG: Site H1 PFAS 533/537.1

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

Lab Sample ID: 380-227869-B-1-A MS

Matrix: Water

Analysis Batch: 243639

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 243554

Isotope Dilution	MS %Recovery	MS Qualifier	Limits
13C2-4:2-FTS	107		50 - 200
13C2-6:2-FTS	97		50 - 200
13C2-8:2-FTS	90		50 - 200

Lab Sample ID: 380-227869-C-1-A MSD

Matrix: Water

Analysis Batch: 243639

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 243554

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	50.4		ng/L		85	70 - 130	2	30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		59.1	50.4		ng/L		85	70 - 130	2	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		59.1	52.8		ng/L		89	70 - 130	2	30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		59.1	55.4		ng/L		94	70 - 130	1	30
Perfluorobutanesulfonic acid (PFBS)	7.1		59.1	60.0		ng/L		90	70 - 130	1	30
Perfluorodecanoic acid (PFDA)	<2.0		59.1	55.3		ng/L		94	70 - 130	3	30
Perfluorododecanoic acid (PFDoA)	<2.0		59.1	54.4		ng/L		92	70 - 130	1	30
Perfluoroheptanoic acid (PFHpA)	<2.0		59.1	52.9		ng/L		88	70 - 130	4	30
Perfluorohexanesulfonic acid (PFHxS)	8.5		59.1	60.2		ng/L		88	70 - 130	4	30
Perfluorohexanoic acid (PFHxA)	2.5		59.1	57.0		ng/L		92	70 - 130	2	30
Perfluorononanoic acid (PFNA)	<2.0		59.1	54.3		ng/L		89	70 - 130	3	30
Perfluorooctanesulfonic acid (PFOS)	11		59.1	62.0		ng/L		87	70 - 130	4	30
Perfluorooctanoic acid (PFOA)	4.9		59.1	57.3		ng/L		89	70 - 130	4	30
Perfluoroundecanoic acid (PFUnA)	<2.0		59.1	50.1		ng/L		85	70 - 130	4	30
Perfluorobutanoic acid (PFBA)	5.5		59.1	60.6		ng/L		93	70 - 130	2	30
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		59.1	56.7		ng/L		96	70 - 130	4	30
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		59.1	50.9		ng/L		86	70 - 130	3	30
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		59.1	57.2		ng/L		97	70 - 130	2	30
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		59.1	51.9		ng/L		88	70 - 130	7	30
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEA)	<2.0		59.1	52.1		ng/L		88	70 - 130	2	30
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		59.1	52.9		ng/L		90	70 - 130	2	30
Perfluoro-4-methoxybutanoic acid (PFMPA)	<2.0		59.1	53.8		ng/L		91	70 - 130	3	30
Perfluoropentanoic acid (PFPeA)	2.6		59.1	57.4		ng/L		93	70 - 130	4	30
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		59.1	54.2		ng/L		91	70 - 130	0	30
Perfluoropentanesulfonic acid (PFPeS)	<2.0		59.1	57.4		ng/L		95	70 - 130	0	30

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QC Sample Results

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

Job ID: 380-227877-1
SDG: Site H1 PFAS 533/537.1

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

Isotope Dilution	MSD MSD		Limits
	%Recovery	Qualifier	
13C3 HFPO-DA	101		50 - 200
13C6 PFDA	93		50 - 200
13C5 PFHxA	107		50 - 200
13C4 PFHpA	105		50 - 200
13C8 PFOA	104		50 - 200
13C9 PFNA	103		50 - 200
13C7 PFUnA	101		50 - 200
13C2 PFDoA	101		50 - 200
13C4 PFBA	102		50 - 200
13C5 PFPeA	113		50 - 200
13C3 PFBS	109		50 - 200
13C3 PFHxS	111		50 - 200
13C8 PFOS	107		50 - 200
13C2-4:2-FTS	107		50 - 200
13C2-6:2-FTS	95		50 - 200
13C2-8:2-FTS	85		50 - 200

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

Lab Sample ID: MBL 380-243415/19-A
Matrix: Water
Analysis Batch: 243635

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 243415

Analyte	MBL MBL		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<0.98		2.0	ng/L		07/30/26 09:35	07/31/26 06:41	1
Perfluorooctanesulfonic acid (PFOS)	<0.42		2.0	ng/L		07/30/26 09:35	07/31/26 06:41	1
Perfluoroundecanoic acid (PFUnA)	<0.41		2.0	ng/L		07/30/26 09:35	07/31/26 06:41	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.57		2.0	ng/L		07/30/26 09:35	07/31/26 06:41	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.41		2.0	ng/L		07/30/26 09:35	07/31/26 06:41	1
Perfluorohexanoic acid (PFHxA)	<0.45		2.0	ng/L		07/30/26 09:35	07/31/26 06:41	1
Perfluorododecanoic acid (PFDoA)	<0.53		2.0	ng/L		07/30/26 09:35	07/31/26 06:41	1
Perfluorooctanoic acid (PFOA)	<0.37		2.0	ng/L		07/30/26 09:35	07/31/26 06:41	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	ng/L		07/30/26 09:35	07/31/26 06:41	1
Perfluorohexanesulfonic acid (PFHxS)	<0.31		2.0	ng/L		07/30/26 09:35	07/31/26 06:41	1
Perfluorobutanesulfonic acid (PFBS)	<0.36		2.0	ng/L		07/30/26 09:35	07/31/26 06:41	1
Perfluoroheptanoic acid (PFHpA)	<0.38		2.0	ng/L		07/30/26 09:35	07/31/26 06:41	1
Perfluorononanoic acid (PFNA)	<0.39		2.0	ng/L		07/30/26 09:35	07/31/26 06:41	1
Perfluorotetradecanoic acid (PFTA)	<0.53		2.0	ng/L		07/30/26 09:35	07/31/26 06:41	1
Perfluorotridecanoic acid (PFTTrDA)	<0.35		2.0	ng/L		07/30/26 09:35	07/31/26 06:41	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	<0.30		2.0	ng/L		07/30/26 09:35	07/31/26 06:41	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<0.29		2.0	ng/L		07/30/26 09:35	07/31/26 06:41	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.59		2.0	ng/L		07/30/26 09:35	07/31/26 06:41	1
Surrogate	MBL MBL		Limits			Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier						
d5-NEtFOSAA	95		70 - 130			07/30/26 09:35	07/31/26 06:41	1
13C2 PFHxA	98		70 - 130			07/30/26 09:35	07/31/26 06:41	1
13C2 PFDA	107		70 - 130			07/30/26 09:35	07/31/26 06:41	1

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QC Sample Results

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

Job ID: 380-227877-1
SDG: Site H1 PFAS 533/537.1

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

Lab Sample ID: MBL 380-243415/19-A

Matrix: Water

Analysis Batch: 243635

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 243415

Surrogate	MBL %Recovery	MBL Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3-GenX	85		70 - 130	07/30/26 09:35	07/31/26 06:41	1

Lab Sample ID: LCS 380-243415/21-A

Matrix: Water

Analysis Batch: 243635

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 243415

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Hexafluoropropylene Oxide	49.1	41.9		ng/L		85	70 - 130
Dimer Acid (HFPO-DA/GenX)							
Perfluorooctanesulfonic acid (PFOS)	49.1	49.9		ng/L		102	70 - 130
Perfluoroundecanoic acid (PFUnA)	49.1	53.3		ng/L		108	70 - 130
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	49.1	47.1		ng/L		96	70 - 130
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	49.1	45.0		ng/L		92	70 - 130
Perfluorohexanoic acid (PFHxA)	49.1	49.9		ng/L		102	70 - 130
Perfluorododecanoic acid (PFDoA)	49.1	55.0		ng/L		112	70 - 130
Perfluorooctanoic acid (PFOA)	49.1	48.8		ng/L		99	70 - 130
Perfluorodecanoic acid (PFDA)	49.1	50.9		ng/L		104	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	49.1	53.0		ng/L		108	70 - 130
Perfluorobutanesulfonic acid (PFBS)	49.1	48.1		ng/L		98	70 - 130
Perfluoroheptanoic acid (PFHpA)	49.1	49.6		ng/L		101	70 - 130
Perfluorononanoic acid (PFNA)	49.1	52.0		ng/L		106	70 - 130
Perfluorotetradecanoic acid (PFTA)	49.1	55.2		ng/L		112	70 - 130
Perfluorotridecanoic acid (PFTrDA)	49.1	58.1		ng/L		118	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	49.1	50.2		ng/L		102	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	44.4		ng/L		90	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
d5-NEtFOSAA	98		70 - 130
13C2 PFHxA	103		70 - 130
13C2 PFDA	113		70 - 130
13C3-GenX	93		70 - 130

QC Sample Results

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

Job ID: 380-227877-1
SDG: Site H1 PFAS 533/537.1

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

Lab Sample ID: MRL 380-243415/20-A

Matrix: Water

Analysis Batch: 243635

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 243415

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Hexafluoropropylene Oxide	1.97	1.61	J	ng/L		82	50 - 150
Dimer Acid (HFPO-DA/GenX)							
Perfluorooctanesulfonic acid (PFOS)	1.97	1.90	J	ng/L		97	50 - 150
Perfluoroundecanoic acid (PFUnA)	1.97	2.24	J	ng/L		114	50 - 150
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	1.97	1.91	J	ng/L		97	50 - 150
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.97	1.87	J	ng/L		95	50 - 150
Perfluorohexanoic acid (PFHxA)	1.97	1.85	J	ng/L		94	50 - 150
Perfluorododecanoic acid (PFDoA)	1.97	2.35	J	ng/L		119	50 - 150
Perfluorooctanoic acid (PFOA)	1.97	1.90	J	ng/L		97	50 - 150
Perfluorodecanoic acid (PFDA)	1.97	1.99	J	ng/L		101	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	1.97	1.95	J	ng/L		99	50 - 150
Perfluorobutanesulfonic acid (PFBS)	1.97	1.81	J	ng/L		92	50 - 150
Perfluoroheptanoic acid (PFHpA)	1.97	1.83	J	ng/L		93	50 - 150
Perfluorononanoic acid (PFNA)	1.97	2.02	J	ng/L		103	50 - 150
Perfluorotetradecanoic acid (PFTA)	1.97	2.22	J	ng/L		113	50 - 150
Perfluorotridecanoic acid (PFTrDA)	1.97	2.37	J	ng/L		120	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	1.97	1.92	J	ng/L		97	50 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	1.97	1.87	J	ng/L		95	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.97	1.66	J	ng/L		84	50 - 150

Surrogate	MRL %Recovery	MRL Qualifier	Limits
d5-NEtFOSAA	101		70 - 130
13C2 PFHxA	109		70 - 130
13C2 PFDA	116		70 - 130
13C3-GenX	94		70 - 130

Lab Sample ID: 380-227787-B-1-A MS

Matrix: Water

Analysis Batch: 243635

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 243415

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Hexafluoropropylene Oxide	<2.0		24.6	25.2		ng/L		102	70 - 130
Dimer Acid (HFPO-DA/GenX)									
Perfluorooctanesulfonic acid (PFOS)	2.6		24.6	29.2		ng/L		108	70 - 130
Perfluoroundecanoic acid (PFUnA)	<2.0		24.6	28.0		ng/L		114	70 - 130
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		24.6	25.4		ng/L		103	70 - 130

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QC Sample Results

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

Job ID: 380-227877-1
SDG: Site H1 PFAS 533/537.1

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

Lab Sample ID: 380-227787-B-1-A MS

Matrix: Water

Analysis Batch: 243635

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 243415

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec		
	Result	Qualifier	Added	Result	Qualifier			Limits	Limits		
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		24.6	24.2		ng/L		98	70 - 130		
Perfluorohexanoic acid (PFHxA)	3.3		24.6	29.2		ng/L		105	70 - 130		
Perfluorododecanoic acid (PFDoA)	<2.0		24.6	28.0		ng/L		114	70 - 130		
Perfluorooctanoic acid (PFOA)	2.1		24.6	29.0		ng/L		109	70 - 130		
Perfluorodecanoic acid (PFDA)	<2.0		24.6	26.7		ng/L		108	70 - 130		
Perfluorohexanesulfonic acid (PFHxS)	2.9		24.6	30.4		ng/L		112	70 - 130		
Perfluorobutanesulfonic acid (PFBS)	<2.0		24.6	28.4		ng/L		110	70 - 130		
Perfluoroheptanoic acid (PFHpA)	<2.0		24.6	27.3		ng/L		106	70 - 130		
Perfluorononanoic acid (PFNA)	<2.0		24.6	27.5		ng/L		112	70 - 130		
Perfluorotetradecanoic acid (PFTA)	<2.0		24.6	27.7		ng/L		113	70 - 130		
Perfluorotridecanoic acid (PFTrDA)	<2.0		24.6	29.0		ng/L		118	70 - 130		
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		24.6	26.4		ng/L		107	70 - 130		
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		24.6	25.1		ng/L		102	70 - 130		
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		24.6	26.1		ng/L		106	70 - 130		
		</									

Lab Sample ID: 380-227787-C-1-A MSD

Matrix: Water

Analysis Batch: 243635

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 243415

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	25.5		ng/L		104	70 - 130	1	30
Perfluorooctanesulfonic acid (PFOS)	2.6		24.6	29.0		ng/L		107	70 - 130	0	30
Perfluoroundecanoic acid (PFUnA)	<2.0		24.6	28.2		ng/L		115	70 - 130	1	30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		24.6	24.9		ng/L		101	70 - 130	2	30
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		24.6	24.6		ng/L		100	70 - 130	2	30
Perfluorohexanoic acid (PFHxA)	3.3		24.6	31.2		ng/L		114	70 - 130	7	30
Perfluorododecanoic acid (PFDoA)	<2.0		24.6	28.9		ng/L		118	70 - 130	3	30
Perfluorooctanoic acid (PFOA)	2.1		24.6	29.1		ng/L		110	70 - 130	0	30
Perfluorodecanoic acid (PFDA)	<2.0		24.6	27.3		ng/L		111	70 - 130	2	30

Eurofins Pomona

QC Sample Results

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

Job ID: 380-227877-1
SDG: Site H1 PFAS 533/537.1

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

Lab Sample ID: 380-227787-C-1-A MSD

Matrix: Water

Analysis Batch: 243635

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 243415

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorohexanesulfonic acid (PFHxS)	2.9		24.6	30.4		ng/L		112	70 - 130	0	30
Perfluorobutanesulfonic acid (PFBS)	<2.0		24.6	27.4		ng/L		106	70 - 130	3	30
Perfluoroheptanoic acid (PFHpA)	<2.0		24.6	28.8		ng/L		112	70 - 130	5	30
Perfluorononanoic acid (PFNA)	<2.0		24.6	27.0		ng/L		110	70 - 130	2	30
Perfluorotetradecanoic acid (PFTA)	<2.0		24.6	27.2		ng/L		111	70 - 130	2	30
Perfluorotridecanoic acid (PFTrDA)	<2.0		24.6	30.0		ng/L		122	70 - 130	3	30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		24.6	27.1		ng/L		110	70 - 130	2	30
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		24.6	25.5		ng/L		104	70 - 130	2	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		24.6	26.6		ng/L		108	70 - 130	2	30
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
d5-NEtFOSAA	104		70 - 130								
13C2 PFHxA	108		70 - 130								
13C2 PFDA	116		70 - 130								
13C3-GenX	102		70 - 130								

QC Association Summary

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

Job ID: 380-227877-1
SDG: Site H1 PFAS 533/537.1

LCMS

Prep Batch: 243415

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-227877-1	BWS2253-H1-AQ	Total/NA	Water	537.1 DW	
380-227877-2	BWS2253-H1-FB	Total/NA	Water	537.1 DW	
MBL 380-243415/19-A	Method Blank	Total/NA	Water	537.1 DW	
LCS 380-243415/21-A	Lab Control Sample	Total/NA	Water	537.1 DW	
MRL 380-243415/20-A	Lab Control Sample	Total/NA	Water	537.1 DW	
380-227787-B-1-A MS	Matrix Spike	Total/NA	Water	537.1 DW	
380-227787-C-1-A MSD	Matrix Spike Duplicate	Total/NA	Water	537.1 DW	

Prep Batch: 243554

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-227877-1	BWS2253-H1-AQ	Total/NA	Water	533	
380-227877-2	BWS2253-H1-FB	Total/NA	Water	533	
MBL 380-243554/20-A	Method Blank	Total/NA	Water	533	
LCS 380-243554/22-A	Lab Control Sample	Total/NA	Water	533	
MRL 380-243554/21-A	Lab Control Sample	Total/NA	Water	533	
380-227869-B-1-A MS	Matrix Spike	Total/NA	Water	533	
380-227869-C-1-A MSD	Matrix Spike Duplicate	Total/NA	Water	533	

Analysis Batch: 243635

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-227877-1	BWS2253-H1-AQ	Total/NA	Water	EPA 537.1 V2	243415
380-227877-2	BWS2253-H1-FB	Total/NA	Water	EPA 537.1 V2	243415
MBL 380-243415/19-A	Method Blank	Total/NA	Water	EPA 537.1 V2	243415
LCS 380-243415/21-A	Lab Control Sample	Total/NA	Water	EPA 537.1 V2	243415
MRL 380-243415/20-A	Lab Control Sample	Total/NA	Water	EPA 537.1 V2	243415
380-227787-B-1-A MS	Matrix Spike	Total/NA	Water	EPA 537.1 V2	243415
380-227787-C-1-A MSD	Matrix Spike Duplicate	Total/NA	Water	EPA 537.1 V2	243415

Analysis Batch: 243639

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-227877-1	BWS2253-H1-AQ	Total/NA	Water	533	243554
380-227877-2	BWS2253-H1-FB	Total/NA	Water	533	243554
MBL 380-243554/20-A	Method Blank	Total/NA	Water	533	243554
LCS 380-243554/22-A	Lab Control Sample	Total/NA	Water	533	243554
MRL 380-243554/21-A	Lab Control Sample	Total/NA	Water	533	243554
380-227869-B-1-A MS	Matrix Spike	Total/NA	Water	533	243554
380-227869-C-1-A MSD	Matrix Spike Duplicate	Total/NA	Water	533	243554

Lab Chronicle

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

Job ID: 380-227877-1
SDG: Site H1 PFAS 533/537.1

Client Sample ID: BWS2253-H1-AQ

Lab Sample ID: 380-227877-1

Date Collected: 07/28/26 09:00

Matrix: Water

Date Received: 07/29/26 10:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			243554	N8NE	EA POM	07/30/26 17:43
Total/NA	Analysis	533		1	243639	SZ9R	EA POM	07/31/26 10:12
Total/NA	Prep	537.1 DW			243415	LM3A	EA POM	07/30/26 09:35
Total/NA	Analysis	EPA 537.1 V2		1	243635	SZ9R	EA POM	07/31/26 10:13

Client Sample ID: BWS2253-H1-FB

Lab Sample ID: 380-227877-2

Date Collected: 07/28/26 09:00

Matrix: Water

Date Received: 07/29/26 10:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			243554	N8NE	EA POM	07/30/26 17:43
Total/NA	Analysis	533		1	243639	SZ9R	EA POM	07/31/26 10:22
Total/NA	Prep	537.1 DW			243415	LM3A	EA POM	07/30/26 09:35
Total/NA	Analysis	EPA 537.1 V2		1	243635	SZ9R	EA POM	07/31/26 10:23

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: 380-227877-1
SDG: Site H1 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	01-31-26 *

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

Method Summary

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

Job ID: 380-227877-1
SDG: Site H1 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: 380-227877-1
SDG: Site H1 PFAS 533/537.1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
380-227877-1	BWS2253-H1-AQ	Water	07/28/26 09:00	07/29/26 10:40	Hawaii
380-227877-2	BWS2253-H1-FB	Water	07/28/26 09:00	07/29/26 10:40	Hawaii

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- 15
- 16
- 17

Environment Testing

[illegible]

Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-227877-1
SDG Number: Site H1 PFAS 533/537.1

Login Number: 227877

List Number: 1

Creator: Ngo, Theodore

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	
CIO4 headspace requirement met (>50% for CA, >30% for other states).	N/A	
Samples do not require splitting or compositing.	True	
Container provided by EEA	True	