

ANALYTICAL REPORT

PREPARED FOR

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JOB DESCRIPTION

INTERA - Red-Hill-Incident
Site H1 PFAS533/537.1

JOB NUMBER

380-220274-1

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



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Definitions/Glossary

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

Job ID: 380-220274-1
SDG: Site H1 PFAS533/537.1

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: 380-220274-1

Job ID: 380-220274-1

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Job Narrative 380-220274-1

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 6/17/2026 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.0°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: 380-220274-1
SDG: Site H1 PFAS533/537.1

Client Sample ID: BWS2253-H1-AQ

Lab Sample ID: 380-220274-1

No Detections.

Client Sample ID: BWS2253-H1-FB

Lab Sample ID: 380-220274-2

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: 380-220274-1
SDG: Site H1 PFAS533/537.1

Client Sample ID: BWS2253-H1-AQ

Lab Sample ID: 380-220274-1

Date Collected: 06/16/26 11:20

Matrix: Water

Date Received: 06/17/26 10:00

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 (11CI-PF3OUdS)	<2.0		2.0	ng/L		06/19/26 08:53	06/19/26 21:20	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9CI-PF3ONS)	<2.0		2.0	ng/L		06/19/26 08:53	06/19/26 21:20	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		06/19/26 08:53	06/19/26 21:20	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		06/19/26 08:53	06/19/26 21:20	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		06/19/26 08:53	06/19/26 21:20	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		06/19/26 08:53	06/19/26 21:20	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		06/19/26 08:53	06/19/26 21:20	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		06/19/26 08:53	06/19/26 21:20	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		06/19/26 08:53	06/19/26 21:20	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		06/19/26 08:53	06/19/26 21:20	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		06/19/26 08:53	06/19/26 21:20	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		06/19/26 08:53	06/19/26 21:20	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		06/19/26 08:53	06/19/26 21:20	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		06/19/26 08:53	06/19/26 21:20	1
Perfluorobutanoic acid (PFBA)	<2.0		2.0	ng/L		06/19/26 08:53	06/19/26 21:20	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0	ng/L		06/19/26 08:53	06/19/26 21:20	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0	ng/L		06/19/26 08:53	06/19/26 21:20	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0	ng/L		06/19/26 08:53	06/19/26 21:20	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		2.0	ng/L		06/19/26 08:53	06/19/26 21:20	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<2.0		2.0	ng/L		06/19/26 08:53	06/19/26 21:20	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		06/19/26 08:53	06/19/26 21:20	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		06/19/26 08:53	06/19/26 21:20	1
Perfluoropentanoic acid (PFPeA)	<2.0		2.0	ng/L		06/19/26 08:53	06/19/26 21:20	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		06/19/26 08:53	06/19/26 21:20	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		06/19/26 08:53	06/19/26 21:20	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	84		50 - 200	06/19/26 08:53	06/19/26 21:20	1
13C6 PFDA	71		50 - 200	06/19/26 08:53	06/19/26 21:20	1
13C5 PFHxA	88		50 - 200	06/19/26 08:53	06/19/26 21:20	1
13C4 PFHpA	88		50 - 200	06/19/26 08:53	06/19/26 21:20	1
13C8 PFOA	87		50 - 200	06/19/26 08:53	06/19/26 21:20	1
13C9 PFNA	85		50 - 200	06/19/26 08:53	06/19/26 21:20	1
13C7 PFUnA	78		50 - 200	06/19/26 08:53	06/19/26 21:20	1
13C2 PFDoA	80		50 - 200	06/19/26 08:53	06/19/26 21:20	1
13C4 PFBA	99		50 - 200	06/19/26 08:53	06/19/26 21:20	1
13C5 PFPeA	100		50 - 200	06/19/26 08:53	06/19/26 21:20	1
13C3 PFBS	104		50 - 200	06/19/26 08:53	06/19/26 21:20	1
13C3 PFHxS	106		50 - 200	06/19/26 08:53	06/19/26 21:20	1
13C8 PFOS	108		50 - 200	06/19/26 08:53	06/19/26 21:20	1

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Client Sample Results

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

Job ID: 380-220274-1
SDG: Site H1 PFAS533/537.1

Client Sample ID: BWS2253-H1-AQ

Lab Sample ID: 380-220274-1

Date Collected: 06/16/26 11:20

Matrix: Water

Date Received: 06/17/26 10:00

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	117		50 - 200	06/19/26 08:53	06/19/26 21:20	1
13C2-6:2-FTS	116		50 - 200	06/19/26 08:53	06/19/26 21:20	1
13C2-8:2-FTS	119		50 - 200	06/19/26 08:53	06/19/26 21:20	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		06/19/26 11:51	06/21/26 21:31	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		06/19/26 11:51	06/21/26 21:31	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		06/19/26 11:51	06/21/26 21:31	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		2.0	ng/L		06/19/26 11:51	06/21/26 21:31	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		2.0	ng/L		06/19/26 11:51	06/21/26 21:31	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		06/19/26 11:51	06/21/26 21:31	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		06/19/26 11:51	06/21/26 21:31	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		06/19/26 11:51	06/21/26 21:31	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		06/19/26 11:51	06/21/26 21:31	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		06/19/26 11:51	06/21/26 21:31	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		06/19/26 11:51	06/21/26 21:31	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		06/19/26 11:51	06/21/26 21:31	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		06/19/26 11:51	06/21/26 21:31	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0	ng/L		06/19/26 11:51	06/21/26 21:31	1
Perfluorotridecanoic acid (PFTTrDA)	<2.0		2.0	ng/L		06/19/26 11:51	06/21/26 21:31	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		06/19/26 11:51	06/21/26 21:31	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		06/19/26 11:51	06/21/26 21:31	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		06/19/26 11:51	06/21/26 21:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	106		70 - 130			06/19/26 11:51	06/21/26 21:31	1
13C2 PFHxA	104		70 - 130			06/19/26 11:51	06/21/26 21:31	1
13C2 PFDA	109		70 - 130			06/19/26 11:51	06/21/26 21:31	1
13C3-GenX	110		70 - 130			06/19/26 11:51	06/21/26 21:31	1

Client Sample ID: BWS2253-H1-FB

Lab Sample ID: 380-220274-2

Date Collected: 06/16/26 11:20

Matrix: Water

Date Received: 06/17/26 10:00

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		06/19/26 08:53	06/19/26 21:30	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		06/19/26 08:53	06/19/26 21:30	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		06/19/26 08:53	06/19/26 21:30	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		06/19/26 08:53	06/19/26 21:30	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		06/19/26 08:53	06/19/26 21:30	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		06/19/26 08:53	06/19/26 21:30	1

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Client Sample Results

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

Job ID: 380-220274-1
SDG: Site H1 PFAS533/537.1

Client Sample ID: BWS2253-H1-FB

Lab Sample ID: 380-220274-2

Date Collected: 06/16/26 11:20

Matrix: Water

Date Received: 06/17/26 10:00

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		06/19/26 08:53	06/19/26 21:30	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		06/19/26 08:53	06/19/26 21:30	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		06/19/26 08:53	06/19/26 21:30	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		06/19/26 08:53	06/19/26 21:30	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		06/19/26 08:53	06/19/26 21:30	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		06/19/26 08:53	06/19/26 21:30	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		06/19/26 08:53	06/19/26 21:30	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		06/19/26 08:53	06/19/26 21:30	1
Perfluorobutanoic acid (PFBA)	<2.0		2.0	ng/L		06/19/26 08:53	06/19/26 21:30	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0	ng/L		06/19/26 08:53	06/19/26 21:30	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0	ng/L		06/19/26 08:53	06/19/26 21:30	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0	ng/L		06/19/26 08:53	06/19/26 21:30	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		2.0	ng/L		06/19/26 08:53	06/19/26 21:30	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<2.0		2.0	ng/L		06/19/26 08:53	06/19/26 21:30	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		06/19/26 08:53	06/19/26 21:30	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		06/19/26 08:53	06/19/26 21:30	1
Perfluoropentanoic acid (PFPeA)	<2.0		2.0	ng/L		06/19/26 08:53	06/19/26 21:30	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		06/19/26 08:53	06/19/26 21:30	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		06/19/26 08:53	06/19/26 21:30	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	73		50 - 200	06/19/26 08:53	06/19/26 21:30	1
13C6 PFDA	75		50 - 200	06/19/26 08:53	06/19/26 21:30	1
13C5 PFHxA	78		50 - 200	06/19/26 08:53	06/19/26 21:30	1
13C4 PFHpA	81		50 - 200	06/19/26 08:53	06/19/26 21:30	1
13C8 PFOA	84		50 - 200	06/19/26 08:53	06/19/26 21:30	1
13C9 PFNA	87		50 - 200	06/19/26 08:53	06/19/26 21:30	1
13C7 PFUnA	83		50 - 200	06/19/26 08:53	06/19/26 21:30	1
13C2 PFDoA	83		50 - 200	06/19/26 08:53	06/19/26 21:30	1
13C4 PFBA	86		50 - 200	06/19/26 08:53	06/19/26 21:30	1
13C5 PFPeA	79		50 - 200	06/19/26 08:53	06/19/26 21:30	1
13C3 PFBS	104		50 - 200	06/19/26 08:53	06/19/26 21:30	1
13C3 PFHxS	104		50 - 200	06/19/26 08:53	06/19/26 21:30	1
13C8 PFOS	106		50 - 200	06/19/26 08:53	06/19/26 21:30	1
13C2-4:2-FTS	97		50 - 200	06/19/26 08:53	06/19/26 21:30	1
13C2-6:2-FTS	107		50 - 200	06/19/26 08:53	06/19/26 21:30	1
13C2-8:2-FTS	113		50 - 200	06/19/26 08:53	06/19/26 21:30	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		06/19/26 17:12	06/20/26 16:28	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		06/19/26 17:12	06/20/26 16:28	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		06/19/26 17:12	06/20/26 16:28	1

Eurofins Pomona

Client Sample Results

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

Job ID: 380-220274-1
SDG: Site H1 PFAS533/537.1

Client Sample ID: BWS2253-H1-FB

Lab Sample ID: 380-220274-2

Date Collected: 06/16/26 11:20

Matrix: Water

Date Received: 06/17/26 10:00

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		06/19/26 17:12	06/20/26 16:28	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		2.0	ng/L		06/19/26 17:12	06/20/26 16:28	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		06/19/26 17:12	06/20/26 16:28	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		06/19/26 17:12	06/20/26 16:28	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		06/19/26 17:12	06/20/26 16:28	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		06/19/26 17:12	06/20/26 16:28	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		06/19/26 17:12	06/20/26 16:28	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		06/19/26 17:12	06/20/26 16:28	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		06/19/26 17:12	06/20/26 16:28	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		06/19/26 17:12	06/20/26 16:28	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0	ng/L		06/19/26 17:12	06/20/26 16:28	1
Perfluorotridecanoic acid (PFTrDA)	<2.0		2.0	ng/L		06/19/26 17:12	06/20/26 16:28	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		06/19/26 17:12	06/20/26 16:28	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		06/19/26 17:12	06/20/26 16:28	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		06/19/26 17:12	06/20/26 16:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	99		70 - 130			06/19/26 17:12	06/20/26 16:28	1
13C2 PFHxA	102		70 - 130			06/19/26 17:12	06/20/26 16:28	1
13C2 PFDA	102		70 - 130			06/19/26 17:12	06/20/26 16:28	1
13C3-GenX	94		70 - 130			06/19/26 17:12	06/20/26 16:28	1

Action Limit Summary

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

Job ID: 380-220274-1
SDG: Site H1 PFAS533/537.1

Client Sample ID: BWS2253-H1-AQ

Lab Sample ID: 380-220274-1

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: 380-220274-2

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: 380-220274-1
SDG: Site H1 PFAS533/537.1

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)
380-220274-1	BWS2253-H1-AQ	106	104	109	110
380-220274-2	BWS2253-H1-FB	99	102	102	94
380-220367-AD-1-A MS	Matrix Spike	92	111	115	114
380-220367-AE-1-A MSD	Matrix Spike Duplicate	86	99	96	97
380-220371-B-1-A MSD	Matrix Spike Duplicate	98	106	105	103
380-220371-C-1-A MS	Matrix Spike	94	99	101	91
LCS 380-235036/22-A	Lab Control Sample	87	103	100	101
LCS 380-235114/22-A	Lab Control Sample	97	88	100	90
MBL 380-235036/20-A	Method Blank	98	112	105	109
MBL 380-235114/20-A	Method Blank	95	103	99	89
MRL 380-235036/21-A	Lab Control Sample	95	116	109	110
MRL 380-235114/21-A	Lab Control Sample	90	106	102	90

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: 380-220274-1
SDG: Site H1 PFAS533/537.1

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)
380-219760-B-6-B MS	Matrix Spike	67	80	76	75	78	84	89	89
380-219760-B-6-C MSD	Matrix Spike Duplicate	60	72	66	70	68	75	84	89
380-220274-1	BWS2253-H1-AQ	84	71	88	88	87	85	78	80
380-220274-2	BWS2253-H1-FB	73	75	78	81	84	87	83	83
LCS 380-234965/37-A	Lab Control Sample	84	94	90	90	94	102	103	99
MBL 380-234965/35-A	Method Blank	72	79	80	82	84	86	90	89
MRL 380-234965/36-A	Lab Control Sample	79	85	89	88	91	93	95	92

		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)
380-219760-B-6-B MS	Matrix Spike	78	76	110	110	113	107	119	121
380-219760-B-6-C MSD	Matrix Spike Duplicate	62	62	107	108	114	106	118	126
380-220274-1	BWS2253-H1-AQ	99	100	104	106	108	117	116	119
380-220274-2	BWS2253-H1-FB	86	79	104	104	106	97	107	113
LCS 380-234965/37-A	Lab Control Sample	93	88	108	109	113	100	112	122
MBL 380-234965/35-A	Method Blank	84	77	100	106	107	103	114	113
MRL 380-234965/36-A	Lab Control Sample	91	89	108	110	112	104	114	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
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: 380-220274-1
SDG: Site H1 PFAS533/537.1

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

Lab Sample ID: MBL 380-234965/35-A
Matrix: Water
Analysis Batch: 235128

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 234965

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS)	<0.30		2.0	ng/L		06/19/26 08:53	06/19/26 18:37	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS)	<0.30		2.0	ng/L		06/19/26 08:53	06/19/26 18:37	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.60		2.0	ng/L		06/19/26 08:53	06/19/26 18:37	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<1.0		2.0	ng/L		06/19/26 08:53	06/19/26 18:37	1
Perfluorobutanesulfonic acid (PFBS)	<0.37		2.0	ng/L		06/19/26 08:53	06/19/26 18:37	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	ng/L		06/19/26 08:53	06/19/26 18:37	1
Perfluorododecanoic acid (PFDoA)	<0.54		2.0	ng/L		06/19/26 08:53	06/19/26 18:37	1
Perfluoroheptanoic acid (PFHpA)	<0.39		2.0	ng/L		06/19/26 08:53	06/19/26 18:37	1
Perfluorohexanesulfonic acid (PFHxS)	<0.32		2.0	ng/L		06/19/26 08:53	06/19/26 18:37	1
Perfluorohexanoic acid (PFHxA)	<0.46		2.0	ng/L		06/19/26 08:53	06/19/26 18:37	1
Perfluorononanoic acid (PFNA)	<0.40		2.0	ng/L		06/19/26 08:53	06/19/26 18:37	1
Perfluorooctanesulfonic acid (PFOS)	<0.43		2.0	ng/L		06/19/26 08:53	06/19/26 18:37	1
Perfluorooctanoic acid (PFOA)	<0.38		2.0	ng/L		06/19/26 08:53	06/19/26 18:37	1
Perfluoroundecanoic acid (PFUnA)	<0.42		2.0	ng/L		06/19/26 08:53	06/19/26 18:37	1
Perfluorobutanoic acid (PFBA)	<0.69		2.0	ng/L		06/19/26 08:53	06/19/26 18:37	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<0.38		2.0	ng/L		06/19/26 08:53	06/19/26 18:37	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<0.37		2.0	ng/L		06/19/26 08:53	06/19/26 18:37	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<0.48		2.0	ng/L		06/19/26 08:53	06/19/26 18:37	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.47		2.0	ng/L		06/19/26 08:53	06/19/26 18:37	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<0.25		2.0	ng/L		06/19/26 08:53	06/19/26 18:37	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.46		2.0	ng/L		06/19/26 08:53	06/19/26 18:37	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.15		2.0	ng/L		06/19/26 08:53	06/19/26 18:37	1
Perfluoropentanoic acid (PFPeA)	<0.38		2.0	ng/L		06/19/26 08:53	06/19/26 18:37	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.36		2.0	ng/L		06/19/26 08:53	06/19/26 18:37	1
Perfluoropentanesulfonic acid (PFPeS)	<0.39		2.0	ng/L		06/19/26 08:53	06/19/26 18:37	1

Isotope Dilution	MBL %Recovery	MBL Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	72		50 - 200	06/19/26 08:53	06/19/26 18:37	1
13C6 PFDA	79		50 - 200	06/19/26 08:53	06/19/26 18:37	1
13C5 PFHxA	80		50 - 200	06/19/26 08:53	06/19/26 18:37	1
13C4 PFHpA	82		50 - 200	06/19/26 08:53	06/19/26 18:37	1
13C8 PFOA	84		50 - 200	06/19/26 08:53	06/19/26 18:37	1
13C9 PFNA	86		50 - 200	06/19/26 08:53	06/19/26 18:37	1
13C7 PFUnA	90		50 - 200	06/19/26 08:53	06/19/26 18:37	1
13C2 PFDoA	89		50 - 200	06/19/26 08:53	06/19/26 18:37	1
13C4 PFBA	84		50 - 200	06/19/26 08:53	06/19/26 18:37	1
13C5 PFPeA	77		50 - 200	06/19/26 08:53	06/19/26 18:37	1
13C3 PFBS	100		50 - 200	06/19/26 08:53	06/19/26 18:37	1
13C3 PFHxS	106		50 - 200	06/19/26 08:53	06/19/26 18:37	1

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QC Sample Results

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

Job ID: 380-220274-1
SDG: Site H1 PFAS533/537.1

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

Lab Sample ID: MBL 380-234965/35-A

Matrix: Water

Analysis Batch: 235128

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 234965

Isotope Dilution	MBL %Recovery	MBL Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOS	107		50 - 200	06/19/26 08:53	06/19/26 18:37	1
13C2-4:2-FTS	103		50 - 200	06/19/26 08:53	06/19/26 18:37	1
13C2-6:2-FTS	114		50 - 200	06/19/26 08:53	06/19/26 18:37	1
13C2-8:2-FTS	113		50 - 200	06/19/26 08:53	06/19/26 18:37	1

Lab Sample ID: LCS 380-234965/37-A

Matrix: Water

Analysis Batch: 235128

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 234965

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	60.2	52.9		ng/L		88	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	60.2	53.8		ng/L		89	70 - 130
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	60.2	50.4		ng/L		84	70 - 130
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	60.2	55.1		ng/L		92	70 - 130
Perfluorobutanesulfonic acid (PFBS)	60.2	54.3		ng/L		90	70 - 130
Perfluorodecanoic acid (PFDA)	60.2	58.1		ng/L		96	70 - 130
Perfluorododecanoic acid (PFDoA)	60.2	55.4		ng/L		92	70 - 130
Perfluorooheptanoic acid (PFHpA)	60.2	54.9		ng/L		91	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	60.2	53.4		ng/L		89	70 - 130
Perfluorohexanoic acid (PFHxA)	60.2	53.9		ng/L		89	70 - 130
Perfluorononanoic acid (PFNA)	60.2	53.4		ng/L		89	70 - 130
Perfluorooctanesulfonic acid (PFOS)	60.2	52.6		ng/L		87	70 - 130
Perfluorooctanoic acid (PFOA)	60.2	56.2		ng/L		93	70 - 130
Perfluoroundecanoic acid (PFUnA)	60.2	54.3		ng/L		90	70 - 130
Perfluorobutanoic acid (PFBA)	60.2	56.7		ng/L		94	70 - 130
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	60.2	55.6		ng/L		92	70 - 130
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	60.2	55.4		ng/L		92	70 - 130
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	60.2	55.6		ng/L		92	70 - 130
Nonfluoro-3,6-dioxahexanoic acid (NFDHA)	60.2	50.2		ng/L		83	70 - 130
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	60.2	53.7		ng/L		89	70 - 130
Perfluoro-3-methoxypropanoic acid (PFMPA)	60.2	54.0		ng/L		90	70 - 130
Perfluoro-4-methoxybutanoic acid (PFMBA)	60.2	54.5		ng/L		90	70 - 130
Perfluoropentanoic acid (PFPeA)	60.2	57.3		ng/L		95	70 - 130
Perfluoroheptanesulfonic acid (PFHpS)	60.2	53.4		ng/L		89	70 - 130

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QC Sample Results

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

Job ID: 380-220274-1
SDG: Site H1 PFAS533/537.1

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

Lab Sample ID: LCS 380-234965/37-A

Matrix: Water

Analysis Batch: 235128

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 234965

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoropentanesulfonic acid (PFPeS)	60.2	53.3		ng/L		88	70 - 130
	LCS	LCS					
Isotope Dilution	%Recovery	Qualifier	Limits				
13C3 HFPO-DA	84		50 - 200				
13C6 PFDA	94		50 - 200				
13C5 PFHxA	90		50 - 200				
13C4 PFHpA	90		50 - 200				
13C8 PFOA	94		50 - 200				
13C9 PFNA	102		50 - 200				
13C7 PFUnA	103		50 - 200				
13C2 PFDoA	99		50 - 200				
13C4 PFBA	93		50 - 200				
13C5 PFPeA	88		50 - 200				
13C3 PFBS	108		50 - 200				
13C3 PFHxS	109		50 - 200				
13C8 PFOS	113		50 - 200				
13C2-4:2-FTS	100		50 - 200				
13C2-6:2-FTS	112		50 - 200				
13C2-8:2-FTS	122		50 - 200				

Lab Sample ID: MRL 380-234965/36-A

Matrix: Water

Analysis Batch: 235128

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 234965

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.01	1.70	J	ng/L		84	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	2.01	1.79	J	ng/L		89	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	2.01	1.63	J	ng/L		81	50 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	2.01	1.81	J	ng/L		90	50 - 150
Perfluorobutanesulfonic acid (PFBS)	2.01	1.87	J	ng/L		93	50 - 150
Perfluorodecanoic acid (PFDA)	2.01	1.96	J	ng/L		98	50 - 150
Perfluorododecanoic acid (PFDoA)	2.01	1.82	J	ng/L		91	50 - 150
Perfluoroheptanoic acid (PFHpA)	2.01	1.85	J	ng/L		92	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	2.01	1.73	J	ng/L		86	50 - 150
Perfluorohexanoic acid (PFHxA)	2.01	1.76	J	ng/L		88	50 - 150
Perfluorononanoic acid (PFNA)	2.01	1.81	J	ng/L		90	50 - 150
Perfluorooctanesulfonic acid (PFOS)	2.01	1.74	J	ng/L		87	50 - 150
Perfluorooctanoic acid (PFOA)	2.01	1.87	J	ng/L		93	50 - 150
Perfluoroundecanoic acid (PFUnA)	2.01	1.69	J	ng/L		84	50 - 150
Perfluorobutanoic acid (PFBA)	2.01	2.06	J	ng/L		102	50 - 150

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QC Sample Results

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

Job ID: 380-220274-1
SDG: Site H1 PFAS533/537.1

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

Lab Sample ID: MRL 380-234965/36-A

Matrix: Water

Analysis Batch: 235128

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 234965

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	2.01	1.85	J	ng/L		92	50 - 150
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	2.01	2.00	J	ng/L		99	50 - 150
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	2.01	1.81	J	ng/L		90	50 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	2.01	1.56	J	ng/L		77	50 - 150
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	2.01	1.78	J	ng/L		89	50 - 150
Perfluoro-3-methoxypropanoic acid (PFMPA)	2.01	1.67	J	ng/L		83	50 - 150
Perfluoro-4-methoxybutanoic acid (PFMBA)	2.01	1.76	J	ng/L		88	50 - 150
Perfluoropentanoic acid (PFPeA)	2.01	2.00	J	ng/L		99	50 - 150
Perfluoroheptanesulfonic acid (PFHpS)	2.01	1.74	J	ng/L		87	50 - 150
Perfluoropentanesulfonic acid (PFPeS)	2.01	1.84	J	ng/L		92	50 - 150

Isotope Dilution	%Recovery	MRL Qualifier	MRL Limits
13C3 HFPO-DA	79		50 - 200
13C6 PFDA	85		50 - 200
13C5 PFHxA	89		50 - 200
13C4 PFHpA	88		50 - 200
13C8 PFOA	91		50 - 200
13C9 PFNA	93		50 - 200
13C7 PFUnA	95		50 - 200
13C2 PFDoA	92		50 - 200
13C4 PFBA	91		50 - 200
13C5 PFPeA	89		50 - 200
13C3 PFBS	108		50 - 200
13C3 PFHxS	110		50 - 200
13C8 PFOS	112		50 - 200
13C2-4:2-FTS	104		50 - 200
13C2-6:2-FTS	114		50 - 200
13C2-8:2-FTS	117		50 - 200

Lab Sample ID: 380-219760-B-6-B MS

Matrix: Water

Analysis Batch: 235128

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 234965

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		60.1	53.5		ng/L		89	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		60.1	54.0		ng/L		90	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		60.1	52.6		ng/L		87	70 - 130

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QC Sample Results

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

Job ID: 380-220274-1
SDG: Site H1 PFAS533/537.1

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

Lab Sample ID: 380-219760-B-6-B MS

Matrix: Water

Analysis Batch: 235128

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 234965

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Hexafluoropropylene Oxide	<2.0	*5-	60.1	55.7		ng/L		93	70 - 130
Dimer Acid (HFPO-DA/GenX)									
Perfluorobutanesulfonic acid (PFBS)	<2.0		60.1	55.8		ng/L		93	70 - 130
Perfluorodecanoic acid (PFDA)	<2.0		60.1	60.0		ng/L		100	70 - 130
Perfluorododecanoic acid (PFDoA)	<2.0		60.1	55.8		ng/L		93	70 - 130
Perfluoroheptanoic acid (PFHpA)	<2.0		60.1	56.2		ng/L		94	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	<2.0		60.1	56.8		ng/L		95	70 - 130
Perfluorohexanoic acid (PFHxA)	<2.0	*5-	60.1	54.8		ng/L		91	70 - 130
Perfluorononanoic acid (PFNA)	<2.0		60.1	55.1		ng/L		92	70 - 130
Perfluorooctanesulfonic acid (PFOS)	<2.0		60.1	54.9		ng/L		91	70 - 130
Perfluorooctanoic acid (PFOA)	<2.0		60.1	57.5		ng/L		96	70 - 130
Perfluoroundecanoic acid (PFUnA)	<2.0		60.1	54.9		ng/L		91	70 - 130
Perfluorobutanoic acid (PFBA)	<2.0	*5-	60.1	55.1		ng/L		92	70 - 130
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		60.1	55.5		ng/L		92	70 - 130
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		60.1	55.8		ng/L		93	70 - 130
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		60.1	55.5		ng/L		92	70 - 130
Nonafluoro-3,6-dioxahexanoic acid (NFDHA)	<2.0	*5-	60.1	47.5		ng/L		79	70 - 130
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEA)	<2.0		60.1	54.5		ng/L		91	70 - 130
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0	*5-	60.1	51.8		ng/L		86	70 - 130
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0	*5-	60.1	53.0		ng/L		88	70 - 130
Perfluoropentanoic acid (PFPeA)	<2.0	*5-	60.1	57.1		ng/L		95	70 - 130
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		60.1	54.8		ng/L		91	70 - 130
Perfluoropentanesulfonic acid (PFPeS)	<2.0		60.1	54.4		ng/L		90	70 - 130

Isotope Dilution	MS %Recovery	MS Qualifier	Limits
13C3 HFPO-DA	67		50 - 200
13C6 PFDA	80		50 - 200
13C5 PFHxA	76		50 - 200
13C4 PFHpA	75		50 - 200
13C8 PFOA	78		50 - 200
13C9 PFNA	84		50 - 200
13C7 PFUnA	89		50 - 200
13C2 PFDoA	89		50 - 200
13C4 PFBA	78		50 - 200
13C5 PFPeA	76		50 - 200
13C3 PFBS	110		50 - 200
13C3 PFHxS	110		50 - 200
13C8 PFOS	113		50 - 200

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QC Sample Results

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

Job ID: 380-220274-1
SDG: Site H1 PFAS533/537.1

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

Lab Sample ID: 380-219760-B-6-B MS

Matrix: Water

Analysis Batch: 235128

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 234965

Isotope Dilution	MS %Recovery	MS Qualifier	Limits
13C2-4:2-FTS	107		50 - 200
13C2-6:2-FTS	119		50 - 200
13C2-8:2-FTS	121		50 - 200

Lab Sample ID: 380-219760-B-6-C MSD

Matrix: Water

Analysis Batch: 235128

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 234965

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		60.1	53.2		ng/L		88	70 - 130	1	30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	<2.0		60.1	53.6		ng/L		89	70 - 130	1	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		60.1	54.4		ng/L		91	70 - 130	3	30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0	*5-	60.1	56.8		ng/L		94	70 - 130	2	30
Perfluorobutanesulfonic acid (PFBS)	<2.0		60.1	56.5		ng/L		94	70 - 130	1	30
Perfluorodecanoic acid (PFDA)	<2.0		60.1	61.3		ng/L		102	70 - 130	2	30
Perfluorododecanoic acid (PFDoA)	<2.0		60.1	57.9		ng/L		96	70 - 130	4	30
Perfluoroheptanoic acid (PFHpA)	<2.0		60.1	56.9		ng/L		95	70 - 130	1	30
Perfluorohexanesulfonic acid (PFHxS)	<2.0		60.1	57.2		ng/L		95	70 - 130	1	30
Perfluorohexanoic acid (PFHxA)	<2.0	*5-	60.1	57.1		ng/L		95	70 - 130	4	30
Perfluorononanoic acid (PFNA)	<2.0		60.1	57.1		ng/L		95	70 - 130	4	30
Perfluorooctanesulfonic acid (PFOS)	<2.0		60.1	55.2		ng/L		92	70 - 130	0	30
Perfluorooctanoic acid (PFOA)	<2.0		60.1	60.7		ng/L		101	70 - 130	5	30
Perfluoroundecanoic acid (PFUnA)	<2.0		60.1	56.2		ng/L		93	70 - 130	2	30
Perfluorobutanoic acid (PFBA)	<2.0	*5-	60.1	57.0		ng/L		95	70 - 130	3	30
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		60.1	56.0		ng/L		93	70 - 130	1	30
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		60.1	56.4		ng/L		94	70 - 130	1	30
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		60.1	57.5		ng/L		96	70 - 130	4	30
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0	*5-	60.1	46.9		ng/L		78	70 - 130	1	30
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<2.0		60.1	58.5		ng/L		97	70 - 130	7	30
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0	*5-	60.1	53.2		ng/L		88	70 - 130	3	30
Perfluoro-4-methoxybutanoic acid (PFMPA)	<2.0	*5-	60.1	60.9		ng/L		101	70 - 130	14	30
Perfluoropentanoic acid (PFPeA)	<2.0	*5-	60.1	58.8		ng/L		98	70 - 130	3	30
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		60.1	55.1		ng/L		92	70 - 130	0	30
Perfluoropentanesulfonic acid (PFPeS)	<2.0		60.1	55.5		ng/L		92	70 - 130	2	30

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QC Sample Results

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

Job ID: 380-220274-1
SDG: Site H1 PFAS533/537.1

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

Isotope Dilution	MSD MSD		Limits
	%Recovery	Qualifier	
13C3 HFPO-DA	60		50 - 200
13C6 PFDA	72		50 - 200
13C5 PFHxA	66		50 - 200
13C4 PFHpA	70		50 - 200
13C8 PFOA	68		50 - 200
13C9 PFNA	75		50 - 200
13C7 PFUnA	84		50 - 200
13C2 PFDoA	89		50 - 200
13C4 PFBA	62		50 - 200
13C5 PFPeA	62		50 - 200
13C3 PFBS	107		50 - 200
13C3 PFHxS	108		50 - 200
13C8 PFOS	114		50 - 200
13C2-4:2-FTS	106		50 - 200
13C2-6:2-FTS	118		50 - 200
13C2-8:2-FTS	126		50 - 200

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

Lab Sample ID: MBL 380-235036/20-A
Matrix: Water
Analysis Batch: 235213

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 235036

Analyte	MBL MBL		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<1.0		2.0	ng/L		06/19/26 11:51	06/21/26 18:57	1
Perfluorooctanesulfonic acid (PFOS)	<0.43		2.0	ng/L		06/19/26 11:51	06/21/26 18:57	1
Perfluoroundecanoic acid (PFUnA)	<0.42		2.0	ng/L		06/19/26 11:51	06/21/26 18:57	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.58		2.0	ng/L		06/19/26 11:51	06/21/26 18:57	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.42		2.0	ng/L		06/19/26 11:51	06/21/26 18:57	1
Perfluorohexanoic acid (PFHxA)	<0.46		2.0	ng/L		06/19/26 11:51	06/21/26 18:57	1
Perfluorododecanoic acid (PFDoA)	<0.54		2.0	ng/L		06/19/26 11:51	06/21/26 18:57	1
Perfluorooctanoic acid (PFOA)	<0.38		2.0	ng/L		06/19/26 11:51	06/21/26 18:57	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	ng/L		06/19/26 11:51	06/21/26 18:57	1
Perfluorohexanesulfonic acid (PFHxS)	<0.32		2.0	ng/L		06/19/26 11:51	06/21/26 18:57	1
Perfluorobutanesulfonic acid (PFBS)	<0.37		2.0	ng/L		06/19/26 11:51	06/21/26 18:57	1
Perfluoroheptanoic acid (PFHpA)	<0.39		2.0	ng/L		06/19/26 11:51	06/21/26 18:57	1
Perfluorononanoic acid (PFNA)	<0.40		2.0	ng/L		06/19/26 11:51	06/21/26 18:57	1
Perfluorotetradecanoic acid (PFTA)	<0.54		2.0	ng/L		06/19/26 11:51	06/21/26 18:57	1
Perfluorotridecanoic acid (PFTrDA)	<0.36		2.0	ng/L		06/19/26 11:51	06/21/26 18:57	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	<0.30		2.0	ng/L		06/19/26 11:51	06/21/26 18:57	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<0.30		2.0	ng/L		06/19/26 11:51	06/21/26 18:57	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.60		2.0	ng/L		06/19/26 11:51	06/21/26 18:57	1
Surrogate	MBL MBL		Limits			Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier						
d5-NEtFOSAA	98		70 - 130			06/19/26 11:51	06/21/26 18:57	1
13C2 PFHxA	112		70 - 130			06/19/26 11:51	06/21/26 18:57	1
13C2 PFDA	105		70 - 130			06/19/26 11:51	06/21/26 18:57	1

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QC Sample Results

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

Job ID: 380-220274-1
SDG: Site H1 PFAS533/537.1

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

Lab Sample ID: MBL 380-235036/20-A

Matrix: Water

Analysis Batch: 235213

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 235036

Surrogate	MBL %Recovery	MBL Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3-GenX	109		70 - 130	06/19/26 11:51	06/21/26 18:57	1

Lab Sample ID: LCS 380-235036/22-A

Matrix: Water

Analysis Batch: 235213

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 235036

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Hexafluoropropylene Oxide	25.1	25.5		ng/L		102	70 - 130
Dimer Acid (HFPO-DA/GenX)							
Perfluorooctanesulfonic acid (PFOS)	25.1	25.7		ng/L		102	70 - 130
Perfluoroundecanoic acid (PFUnA)	25.1	28.4		ng/L		113	70 - 130
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	25.1	22.1		ng/L		88	70 - 130
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	25.1	22.8		ng/L		91	70 - 130
Perfluorohexanoic acid (PFHxA)	25.1	26.5		ng/L		105	70 - 130
Perfluorododecanoic acid (PFDoA)	25.1	27.4		ng/L		109	70 - 130
Perfluorooctanoic acid (PFOA)	25.1	25.5		ng/L		102	70 - 130
Perfluorodecanoic acid (PFDA)	25.1	25.9		ng/L		103	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	25.1	25.6		ng/L		102	70 - 130
Perfluorobutanesulfonic acid (PFBS)	25.1	26.3		ng/L		105	70 - 130
Perfluoroheptanoic acid (PFHpA)	25.1	24.8		ng/L		99	70 - 130
Perfluorononanoic acid (PFNA)	25.1	25.6		ng/L		102	70 - 130
Perfluorotetradecanoic acid (PFTA)	25.1	26.2		ng/L		105	70 - 130
Perfluorotridecanoic acid (PFTrDA)	25.1	29.1		ng/L		116	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	25.1	25.8		ng/L		103	70 - 130
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	25.1	24.7		ng/L		99	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	25.1	24.7		ng/L		99	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
d5-NEtFOSAA	87		70 - 130
13C2 PFHxA	103		70 - 130
13C2 PFDA	100		70 - 130
13C3-GenX	101		70 - 130

QC Sample Results

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

Job ID: 380-220274-1
SDG: Site H1 PFAS533/537.1

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

Lab Sample ID: MRL 380-235036/21-A

Matrix: Water

Analysis Batch: 235213

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 235036

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Hexafluoropropylene Oxide	2.01	2.21	J	ng/L		110	50 - 150
Dimer Acid (HFPO-DA/GenX)							
Perfluorooctanesulfonic acid (PFOS)	2.01	2.04	J	ng/L		102	50 - 150
Perfluoroundecanoic acid (PFUnA)	2.01	2.48	J	ng/L		123	50 - 150
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.01	2.03	J	ng/L		101	50 - 150
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.01	2.07	J	ng/L		103	50 - 150
Perfluorohexanoic acid (PFHxA)	2.01	2.26	J	ng/L		112	50 - 150
Perfluorododecanoic acid (PFDoA)	2.01	2.25	J	ng/L		112	50 - 150
Perfluorooctanoic acid (PFOA)	2.01	2.05	J	ng/L		102	50 - 150
Perfluorodecanoic acid (PFDA)	2.01	2.04	J	ng/L		102	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	2.01	2.05	J	ng/L		102	50 - 150
Perfluorobutanesulfonic acid (PFBS)	2.01	1.93	J	ng/L		96	50 - 150
Perfluoroheptanoic acid (PFHpA)	2.01	2.37	J	ng/L		118	50 - 150
Perfluorononanoic acid (PFNA)	2.01	2.13	J	ng/L		106	50 - 150
Perfluorotetradecanoic acid (PFTA)	2.01	2.25	J	ng/L		112	50 - 150
Perfluorotridecanoic acid (PFTrDA)	2.01	2.47	J	ng/L		123	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	2.01	2.00	J	ng/L		100	50 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.01	2.03	J	ng/L		101	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	2.01	2.21	J	ng/L		110	50 - 150

Surrogate	MRL %Recovery	MRL Qualifier	Limits
d5-NEtFOSAA	95		70 - 130
13C2 PFHxA	116		70 - 130
13C2 PFDA	109		70 - 130
13C3-GenX	110		70 - 130

Lab Sample ID: 380-220367-AD-1-A MS

Matrix: Water

Analysis Batch: 235213

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 235036

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Hexafluoropropylene Oxide	<2.0		50.3	55.6		ng/L		111	70 - 130
Dimer Acid (HFPO-DA/GenX)									
Perfluorooctanesulfonic acid (PFOS)	<2.0		50.3	51.9		ng/L		103	70 - 130
Perfluoroundecanoic acid (PFUnA)	<2.0		50.3	63.0		ng/L		125	70 - 130
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		50.3	51.3		ng/L		102	70 - 130

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QC Sample Results

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

Job ID: 380-220274-1
SDG: Site H1 PFAS533/537.1

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

Lab Sample ID: 380-220367-AD-1-A MS

Matrix: Water

Analysis Batch: 235213

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 235036

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	Limits		
	Result	Qualifier	Added	Result	Qualifier			%Rec			
N-ethylperfluorooctanesulfonamidoacetic acid (NETFOSAA)	<2.0		50.3	45.6		ng/L		91	70 - 130		
Perfluorohexanoic acid (PFHxA)	<2.0		50.3	58.4		ng/L		116	70 - 130		
Perfluorododecanoic acid (PFDoA)	<2.0		50.3	62.2		ng/L		124	70 - 130		
Perfluorooctanoic acid (PFOA)	<2.0		50.3	57.4		ng/L		114	70 - 130		
Perfluorodecanoic acid (PFDA)	<2.0		50.3	56.3		ng/L		112	70 - 130		
Perfluorohexanesulfonic acid (PFHxS)	<2.0		50.3	53.8		ng/L		107	70 - 130		
Perfluorobutanesulfonic acid (PFBS)	<2.0		50.3	51.6		ng/L		103	70 - 130		
Perfluoroheptanoic acid (PFHpA)	<2.0		50.3	59.6		ng/L		119	70 - 130		
Perfluorononanoic acid (PFNA)	<2.0		50.3	55.1		ng/L		110	70 - 130		
Perfluorotetradecanoic acid (PFTA)	<2.0		50.3	56.4		ng/L		112	70 - 130		
Perfluorotridecanoic acid (PFTrDA)	<2.0		50.3	62.2		ng/L		124	70 - 130		
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		50.3	53.9		ng/L		107	70 - 130		
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		50.3	52.1		ng/L		104	70 - 130		
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		50.3	58.3		ng/L		116	70 - 130		

Lab Sample ID: 380-220367-AE-1-A MSD

Matrix: Water

Analysis Batch: 235213

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 235036

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		50.3	48.0		ng/L		95	70 - 130	15	30
Perfluorooctanesulfonic acid (PFOS)	<2.0		50.3	50.4		ng/L		100	70 - 130	3	30
Perfluoroundecanoic acid (PFUnA)	<2.0		50.3	54.7		ng/L		109	70 - 130	14	30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		50.3	48.0		ng/L		95	70 - 130	7	30
N-ethylperfluorooctanesulfonamidoacetic acid (NETFOSAA)	<2.0		50.3	40.8		ng/L		81	70 - 130	11	30
Perfluorohexanoic acid (PFHxA)	<2.0		50.3	51.0		ng/L		101	70 - 130	14	30
Perfluorododecanoic acid (PFDoA)	<2.0		50.3	55.0		ng/L		109	70 - 130	12	30
Perfluorooctanoic acid (PFOA)	<2.0		50.3	48.2		ng/L		96	70 - 130	17	30
Perfluorodecanoic acid (PFDA)	<2.0		50.3	50.0		ng/L		99	70 - 130	12	30

Eurofins Pomona

QC Sample Results

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

Job ID: 380-220274-1
SDG: Site H1 PFAS533/537.1

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

Lab Sample ID: 380-220367-AE-1-A MSD

Matrix: Water

Analysis Batch: 235213

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 235036

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorohexanesulfonic acid (PFHxS)	<2.0		50.3	49.8		ng/L		99	70 - 130	8	30
Perfluorobutanesulfonic acid (PFBS)	<2.0		50.3	49.2		ng/L		98	70 - 130	5	30
Perfluoroheptanoic acid (PFHpA)	<2.0		50.3	51.7		ng/L		103	70 - 130	14	30
Perfluorononanoic acid (PFNA)	<2.0		50.3	48.5		ng/L		96	70 - 130	13	30
Perfluorotetradecanoic acid (PFTA)	<2.0		50.3	47.9		ng/L		95	70 - 130	16	30
Perfluorotridecanoic acid (PFTrDA)	<2.0		50.3	56.4		ng/L		112	70 - 130	10	30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9CI-PF3ONS)	<2.0		50.3	50.7		ng/L		101	70 - 130	6	30
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS)	<2.0		50.3	50.2		ng/L		100	70 - 130	4	30
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	<2.0		50.3	52.2		ng/L		104	70 - 130	11	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
d5-NEtFOSAA	86		70 - 130
13C2 PFHxA	99		70 - 130
13C2 PFDA	96		70 - 130
13C3-GenX	97		70 - 130

Lab Sample ID: MBL 380-235114/20-A

Matrix: Water

Analysis Batch: 235169

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 235114

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<1.0		2.0	ng/L		06/19/26 17:12	06/20/26 15:11	1
Perfluorooctanesulfonic acid (PFOS)	<0.43		2.0	ng/L		06/19/26 17:12	06/20/26 15:11	1
Perfluoroundecanoic acid (PFUnA)	<0.42		2.0	ng/L		06/19/26 17:12	06/20/26 15:11	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.58		2.0	ng/L		06/19/26 17:12	06/20/26 15:11	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.42		2.0	ng/L		06/19/26 17:12	06/20/26 15:11	1
Perfluorohexanoic acid (PFHxA)	<0.46		2.0	ng/L		06/19/26 17:12	06/20/26 15:11	1
Perfluorododecanoic acid (PFDoA)	<0.54		2.0	ng/L		06/19/26 17:12	06/20/26 15:11	1
Perfluorooctanoic acid (PFOA)	<0.38		2.0	ng/L		06/19/26 17:12	06/20/26 15:11	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	ng/L		06/19/26 17:12	06/20/26 15:11	1
Perfluorohexanesulfonic acid (PFHxS)	<0.32		2.0	ng/L		06/19/26 17:12	06/20/26 15:11	1
Perfluorobutanesulfonic acid (PFBS)	<0.37		2.0	ng/L		06/19/26 17:12	06/20/26 15:11	1
Perfluoroheptanoic acid (PFHpA)	<0.39		2.0	ng/L		06/19/26 17:12	06/20/26 15:11	1
Perfluorononanoic acid (PFNA)	<0.40		2.0	ng/L		06/19/26 17:12	06/20/26 15:11	1
Perfluorotetradecanoic acid (PFTA)	<0.54		2.0	ng/L		06/19/26 17:12	06/20/26 15:11	1
Perfluorotridecanoic acid (PFTrDA)	<0.36		2.0	ng/L		06/19/26 17:12	06/20/26 15:11	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9CI-PF3ONS)	<0.30		2.0	ng/L		06/19/26 17:12	06/20/26 15:11	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS)	<0.30		2.0	ng/L		06/19/26 17:12	06/20/26 15:11	1

Eurofins Pomona

QC Sample Results

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

Job ID: 380-220274-1
SDG: Site H1 PFAS533/537.1

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

Lab Sample ID: MBL 380-235114/20-A

Matrix: Water

Analysis Batch: 235169

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 235114

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.60		2.0	ng/L		06/19/26 17:12	06/20/26 15:11	1
Surrogate	%Recovery	MBL Qualifier	Limits			Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	95		70 - 130			06/19/26 17:12	06/20/26 15:11	1
13C2 PFHxA	103		70 - 130			06/19/26 17:12	06/20/26 15:11	1
13C2 PFDA	99		70 - 130			06/19/26 17:12	06/20/26 15:11	1
13C3-GenX	89		70 - 130			06/19/26 17:12	06/20/26 15:11	1

Lab Sample ID: LCS 380-235114/22-A

Matrix: Water

Analysis Batch: 235169

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 235114

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Hexafluoropropylene Oxide	25.1	23.5		ng/L		94	70 - 130
Dimer Acid (HFPO-DA/GenX)							
Perfluorooctanesulfonic acid (PFOS)	25.1	25.0		ng/L		100	70 - 130
Perfluoroundecanoic acid (PFUnA)	25.1	24.9		ng/L		99	70 - 130
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	25.1	25.4		ng/L		101	70 - 130
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	25.1	26.1		ng/L		104	70 - 130
Perfluorohexanoic acid (PFHxA)	25.1	26.1		ng/L		104	70 - 130
Perfluorododecanoic acid (PFDoA)	25.1	24.4		ng/L		97	70 - 130
Perfluorooctanoic acid (PFOA)	25.1	25.3		ng/L		101	70 - 130
Perfluorodecanoic acid (PFDA)	25.1	25.4		ng/L		101	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	25.1	25.1		ng/L		100	70 - 130
Perfluorobutanesulfonic acid (PFBS)	25.1	25.9		ng/L		103	70 - 130
Perfluoroheptanoic acid (PFHpA)	25.1	25.6		ng/L		102	70 - 130
Perfluorononanoic acid (PFNA)	25.1	25.4		ng/L		101	70 - 130
Perfluorotetradecanoic acid (PFTA)	25.1	21.1		ng/L		84	70 - 130
Perfluorotridecanoic acid (PFTrDA)	25.1	24.8		ng/L		99	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	25.1	26.1		ng/L		104	70 - 130
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	25.1	24.9		ng/L		99	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	25.1	25.4		ng/L		101	70 - 130
Surrogate	%Recovery	LCS Qualifier	Limits				
d5-NEtFOSAA	97		70 - 130				
13C2 PFHxA	88		70 - 130				
13C2 PFDA	100		70 - 130				

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QC Sample Results

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

Job ID: 380-220274-1
SDG: Site H1 PFAS533/537.1

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

Lab Sample ID: LCS 380-235114/22-A

Matrix: Water

Analysis Batch: 235169

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 235114

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
13C3-GenX	90		70 - 130

Lab Sample ID: MRL 380-235114/21-A

Matrix: Water

Analysis Batch: 235169

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 235114

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Hexafluoropropylene Oxide	2.01	1.76	J	ng/L		87	50 - 150
Dimer Acid (HFPO-DA/GenX)							
Perfluorooctanesulfonic acid (PFOS)	2.01	1.99	J	ng/L		99	50 - 150
Perfluoroundecanoic acid (PFUnA)	2.01	2.06	J	ng/L		103	50 - 150
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.01	1.89	J	ng/L		94	50 - 150
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.01	2.08	J	ng/L		104	50 - 150
Perfluorohexanoic acid (PFHxA)	2.01	2.09	J	ng/L		104	50 - 150
Perfluorododecanoic acid (PFDoA)	2.01	1.96	J	ng/L		97	50 - 150
Perfluorooctanoic acid (PFOA)	2.01	2.02	J	ng/L		101	50 - 150
Perfluorodecanoic acid (PFDA)	2.01	2.07	J	ng/L		103	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	2.01	2.09	J	ng/L		104	50 - 150
Perfluorobutanesulfonic acid (PFBS)	2.01	1.98	J	ng/L		99	50 - 150
Perfluoroheptanoic acid (PFHpA)	2.01	2.11	J	ng/L		105	50 - 150
Perfluorononanoic acid (PFNA)	2.01	2.16	J	ng/L		108	50 - 150
Perfluorotetradecanoic acid (PFTA)	2.01	1.76	J	ng/L		88	50 - 150
Perfluorotridecanoic acid (PFTrDA)	2.01	2.01	J	ng/L		100	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	2.01	2.09	J	ng/L		104	50 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.01	1.99	J	ng/L		99	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	2.01	1.93	J	ng/L		96	50 - 150

	MRL	MRL	
Surrogate	%Recovery	Qualifier	Limits
d5-NEtFOSAA	90		70 - 130
13C2 PFHxA	106		70 - 130
13C2 PFDA	102		70 - 130
13C3-GenX	90		70 - 130

QC Sample Results

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

Job ID: 380-220274-1
SDG: Site H1 PFAS533/537.1

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

Lab Sample ID: 380-220371-B-1-A MSD

Matrix: Water

Analysis Batch: 235169

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 235114

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Hexafluoropropylene Oxide	<2.0		25.1	26.5		ng/L		106	70 - 130	7	30
Dimer Acid (HFPO-DA/GenX)											
Perfluorooctanesulfonic acid (PFOS)	<2.0		25.1	27.1		ng/L		106	70 - 130	0	30
Perfluoroundecanoic acid (PFUnA)	<2.0		25.1	25.9		ng/L		103	70 - 130	3	30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		25.1	26.3		ng/L		105	70 - 130	5	30
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		25.1	26.8		ng/L		107	70 - 130	6	30
Perfluorohexanoic acid (PFHxA)	<2.0		25.1	28.5		ng/L		114	70 - 130	6	30
Perfluorododecanoic acid (PFDoA)	<2.0		25.1	26.3		ng/L		105	70 - 130	7	30
Perfluorooctanoic acid (PFOA)	<2.0		25.1	28.4		ng/L		110	70 - 130	8	30
Perfluorodecanoic acid (PFDA)	<2.0		25.1	27.5		ng/L		109	70 - 130	5	30
Perfluorohexanesulfonic acid (PFHxS)	<2.0		25.1	27.7		ng/L		110	70 - 130	2	30
Perfluorobutanesulfonic acid (PFBS)	<2.0		25.1	27.8		ng/L		111	70 - 130	1	30
Perfluoroheptanoic acid (PFHpA)	<2.0		25.1	27.1		ng/L		108	70 - 130	3	30
Perfluorononanoic acid (PFNA)	<2.0		25.1	28.1		ng/L		112	70 - 130	8	30
Perfluorotetradecanoic acid (PFTA)	<2.0		25.1	23.7		ng/L		94	70 - 130	2	30
Perfluorotridecanoic acid (PFTrDA)	<2.0		25.1	26.5		ng/L		106	70 - 130	7	30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		25.1	27.5		ng/L		109	70 - 130	1	30
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		25.1	27.8		ng/L		111	70 - 130	5	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		25.1	28.0		ng/L		112	70 - 130	7	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
d5-NEtFOSAA	98		70 - 130
13C2 PFHxA	106		70 - 130
13C2 PFDA	105		70 - 130
13C3-GenX	103		70 - 130

Lab Sample ID: 380-220371-C-1-A MS

Matrix: Water

Analysis Batch: 235169

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 235114

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Hexafluoropropylene Oxide	<2.0		25.2	24.6		ng/L		98	70 - 130
Dimer Acid (HFPO-DA/GenX)									
Perfluorooctanesulfonic acid (PFOS)	<2.0		25.2	27.2		ng/L		106	70 - 130
Perfluoroundecanoic acid (PFUnA)	<2.0		25.2	25.1		ng/L		100	70 - 130
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		25.2	25.0		ng/L		99	70 - 130

Eurofins Pomona

QC Sample Results

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

Job ID: 380-220274-1
SDG: Site H1 PFAS533/537.1

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

Lab Sample ID: 380-220371-C-1-A MS

Matrix: Water

Analysis Batch: 235169

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 235114

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		25.2	25.2		ng/L		100	70 - 130
Perfluorohexanoic acid (PFHxA)	<2.0		25.2	26.9		ng/L		107	70 - 130
Perfluorododecanoic acid (PFDoA)	<2.0		25.2	24.5		ng/L		98	70 - 130
Perfluorooctanoic acid (PFOA)	<2.0		25.2	26.3		ng/L		101	70 - 130
Perfluorodecanoic acid (PFDA)	<2.0		25.2	26.2		ng/L		104	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	<2.0		25.2	27.1		ng/L		108	70 - 130
Perfluorobutanesulfonic acid (PFBS)	<2.0		25.2	27.6		ng/L		110	70 - 130
Perfluoroheptanoic acid (PFHpA)	<2.0		25.2	26.2		ng/L		104	70 - 130
Perfluorononanoic acid (PFNA)	<2.0		25.2	25.9		ng/L		103	70 - 130
Perfluorotetradecanoic acid (PFTA)	<2.0		25.2	23.3		ng/L		92	70 - 130
Perfluorotridecanoic acid (PFTrDA)	<2.0		25.2	24.7		ng/L		98	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		25.2	27.3		ng/L		108	70 - 130
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		25.2	26.4		ng/L		105	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		25.2	26.1		ng/L		104	70 - 130
Surrogate	MS %Recovery	MS Qualifier	MS Limits						
d5-NEtFOSAA	94		70 - 130						
13C2 PFHxA	99		70 - 130						
13C2 PFDA	101		70 - 130						
13C3-GenX	91		70 - 130						

QC Association Summary

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

Job ID: 380-220274-1
SDG: Site H1 PFAS533/537.1

LCMS

Prep Batch: 234965

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-220274-1	BWS2253-H1-AQ	Total/NA	Water	533	
380-220274-2	BWS2253-H1-FB	Total/NA	Water	533	
MBL 380-234965/35-A	Method Blank	Total/NA	Water	533	
LCS 380-234965/37-A	Lab Control Sample	Total/NA	Water	533	
MRL 380-234965/36-A	Lab Control Sample	Total/NA	Water	533	
380-219760-B-6-B MS	Matrix Spike	Total/NA	Water	533	
380-219760-B-6-C MSD	Matrix Spike Duplicate	Total/NA	Water	533	

Prep Batch: 235036

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-220274-1	BWS2253-H1-AQ	Total/NA	Water	537.1 DW	
MBL 380-235036/20-A	Method Blank	Total/NA	Water	537.1 DW	
LCS 380-235036/22-A	Lab Control Sample	Total/NA	Water	537.1 DW	
MRL 380-235036/21-A	Lab Control Sample	Total/NA	Water	537.1 DW	
380-220367-AD-1-A MS	Matrix Spike	Total/NA	Water	537.1 DW	
380-220367-AE-1-A MSD	Matrix Spike Duplicate	Total/NA	Water	537.1 DW	

Prep Batch: 235114

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-220274-2	BWS2253-H1-FB	Total/NA	Water	537.1 DW	
MBL 380-235114/20-A	Method Blank	Total/NA	Water	537.1 DW	
LCS 380-235114/22-A	Lab Control Sample	Total/NA	Water	537.1 DW	
MRL 380-235114/21-A	Lab Control Sample	Total/NA	Water	537.1 DW	
380-220371-B-1-A MSD	Matrix Spike Duplicate	Total/NA	Water	537.1 DW	
380-220371-C-1-A MS	Matrix Spike	Total/NA	Water	537.1 DW	

Analysis Batch: 235128

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-220274-1	BWS2253-H1-AQ	Total/NA	Water	533	234965
380-220274-2	BWS2253-H1-FB	Total/NA	Water	533	234965
MBL 380-234965/35-A	Method Blank	Total/NA	Water	533	234965
LCS 380-234965/37-A	Lab Control Sample	Total/NA	Water	533	234965
MRL 380-234965/36-A	Lab Control Sample	Total/NA	Water	533	234965
380-219760-B-6-B MS	Matrix Spike	Total/NA	Water	533	234965
380-219760-B-6-C MSD	Matrix Spike Duplicate	Total/NA	Water	533	234965

Analysis Batch: 235169

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-220274-2	BWS2253-H1-FB	Total/NA	Water	EPA 537.1 V2	235114
MBL 380-235114/20-A	Method Blank	Total/NA	Water	EPA 537.1 V2	235114
LCS 380-235114/22-A	Lab Control Sample	Total/NA	Water	EPA 537.1 V2	235114
MRL 380-235114/21-A	Lab Control Sample	Total/NA	Water	EPA 537.1 V2	235114
380-220371-B-1-A MSD	Matrix Spike Duplicate	Total/NA	Water	EPA 537.1 V2	235114
380-220371-C-1-A MS	Matrix Spike	Total/NA	Water	EPA 537.1 V2	235114

Analysis Batch: 235213

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-220274-1	BWS2253-H1-AQ	Total/NA	Water	EPA 537.1 V2	235036
MBL 380-235036/20-A	Method Blank	Total/NA	Water	EPA 537.1 V2	235036
LCS 380-235036/22-A	Lab Control Sample	Total/NA	Water	EPA 537.1 V2	235036
MRL 380-235036/21-A	Lab Control Sample	Total/NA	Water	EPA 537.1 V2	235036

Eurofins Pomona

QC Association Summary

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

Job ID: 380-220274-1
SDG: Site H1 PFAS533/537.1

LCMS (Continued)

Analysis Batch: 235213 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-220367-AD-1-A MS	Matrix Spike	Total/NA	Water	EPA 537.1 V2	235036
380-220367-AE-1-A MSD	Matrix Spike Duplicate	Total/NA	Water	EPA 537.1 V2	235036

Lab Chronicle

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

Job ID: 380-220274-1
SDG: Site H1 PFAS533/537.1

Client Sample ID: BWS2253-H1-AQ

Lab Sample ID: 380-220274-1

Date Collected: 06/16/26 11:20

Matrix: Water

Date Received: 06/17/26 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			234965	XTD8	EA POM	06/19/26 08:53
Total/NA	Analysis	533		1	235128	Y5FM	EA POM	06/19/26 21:20
Total/NA	Prep	537.1 DW			235036	LM3A	EA POM	06/19/26 11:51
Total/NA	Analysis	EPA 537.1 V2		1	235213	SZ9R	EA POM	06/21/26 21:31

Client Sample ID: BWS2253-H1-FB

Lab Sample ID: 380-220274-2

Date Collected: 06/16/26 11:20

Matrix: Water

Date Received: 06/17/26 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			234965	XTD8	EA POM	06/19/26 08:53
Total/NA	Analysis	533		1	235128	Y5FM	EA POM	06/19/26 21:30
Total/NA	Prep	537.1 DW			235114	E2HD	EA POM	06/19/26 17:12
Total/NA	Analysis	EPA 537.1 V2		1	235169	M7ML	EA POM	06/20/26 16:28

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: 380-220274-1
SDG: Site H1 PFAS533/537.1

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: 380-220274-1
SDG: Site H1 PFAS533/537.1

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: 380-220274-1
SDG: Site H1 PFAS533/537.1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
380-220274-1	BWS2253-H1-AQ	Water	06/16/26 11:20	06/17/26 10:00	Hawaii
380-220274-2	BWS2253-H1-FB	Water	06/16/26 11:20	06/17/26 10:00	Hawaii

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Environment



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Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-220274-1
SDG Number: Site H1 PFAS533/537.1

Login Number: 220274

List Number: 1

Creator: Avila, Ivan

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	
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	