

ANALYTICAL REPORT

PREPARED FOR

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

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JOB DESCRIPTION

INTERA - Red-Hill-Incident
Site D2 PFAS 533/537.1

JOB NUMBER

380-210044-1

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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
Maria Lopez, Project Manager
Maria.Lopez@et.eurofinsus.com
(626)386-1100

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Definitions/Glossary

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

Job ID: 380-210044-1
SDG: Site D2 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: 380-210044-1

Job ID: 380-210044-1

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Job Narrative 380-210044-1

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 4/22/2026 10:22 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 4.1°C.

Receipt Exceptions

Lab did not receive a FB for 533.
BWS2254-D2-FB (380-210044-2)

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: 380-210044-1
SDG: Site D2 PFAS 533/537.1

Client Sample ID: BWS2254-D2-AQ

Lab Sample ID: 380-210044-1

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanesulfonic acid (PFHxS)	9.7		2.0	ng/L	1		533	Total/NA
Perfluorooctanoic acid (PFOA)	4.2		2.0	ng/L	1		533	Total/NA
Perfluorooctanoic acid (PFOA)	4.6		2.0	ng/L	1		EPA 537.1 V2	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	9.8		2.0	ng/L	1		EPA 537.1 V2	Total/NA

Client Sample ID: BWS2254-D2-FB

Lab Sample ID: 380-210044-2

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: 380-210044-1
SDG: Site D2 PFAS 533/537.1

Client Sample ID: BWS2254-D2-AQ

Lab Sample ID: 380-210044-1

Date Collected: 04/21/26 11:30

Matrix: Water

Date Received: 04/22/26 10:22

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 (11CI-PF3OUdS)	<2.0		2.0	ng/L		04/27/26 07:29	04/28/26 10:22	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9CI-PF3ONS)	<2.0		2.0	ng/L		04/27/26 07:29	04/28/26 10:22	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		04/27/26 07:29	04/28/26 10:22	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		04/27/26 07:29	04/28/26 10:22	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		04/27/26 07:29	04/28/26 10:22	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		04/27/26 07:29	04/28/26 10:22	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		04/27/26 07:29	04/28/26 10:22	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		04/27/26 07:29	04/28/26 10:22	1
Perfluorohexanesulfonic acid (PFHxS)	9.7		2.0	ng/L		04/27/26 07:29	04/28/26 10:22	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		04/27/26 07:29	04/28/26 10:22	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		04/27/26 07:29	04/28/26 10:22	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		04/27/26 07:29	04/28/26 10:22	1
Perfluorooctanoic acid (PFOA)	4.2		2.0	ng/L		04/27/26 07:29	04/28/26 10:22	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		04/27/26 07:29	04/28/26 10:22	1
Perfluorobutanoic acid (PFBA)	<2.0		2.0	ng/L		04/27/26 07:29	04/28/26 10:22	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0	ng/L		04/27/26 07:29	04/28/26 10:22	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0	ng/L		04/27/26 07:29	04/28/26 10:22	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0	ng/L		04/27/26 07:29	04/28/26 10:22	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		2.0	ng/L		04/27/26 07:29	04/28/26 10:22	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEA)	<2.0		2.0	ng/L		04/27/26 07:29	04/28/26 10:22	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		04/27/26 07:29	04/28/26 10:22	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		04/27/26 07:29	04/28/26 10:22	1
Perfluoropentanoic acid (PFPeA)	<2.0		2.0	ng/L		04/27/26 07:29	04/28/26 10:22	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		04/27/26 07:29	04/28/26 10:22	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		04/27/26 07:29	04/28/26 10:22	1
Isotope Dilution	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	99		50 - 200			04/27/26 07:29	04/28/26 10:22	1
13C6 PFDA	94		50 - 200			04/27/26 07:29	04/28/26 10:22	1
13C5 PFHxA	104		50 - 200			04/27/26 07:29	04/28/26 10:22	1
13C4 PFHpA	102		50 - 200			04/27/26 07:29	04/28/26 10:22	1
13C8 PFOA	98		50 - 200			04/27/26 07:29	04/28/26 10:22	1
13C9 PFNA	93		50 - 200			04/27/26 07:29	04/28/26 10:22	1
13C7 PFUnA	94		50 - 200			04/27/26 07:29	04/28/26 10:22	1
13C2 PFDoA	97		50 - 200			04/27/26 07:29	04/28/26 10:22	1
13C4 PFBA	107		50 - 200			04/27/26 07:29	04/28/26 10:22	1
13C5 PFPeA	112		50 - 200			04/27/26 07:29	04/28/26 10:22	1
13C3 PFBS	110		50 - 200			04/27/26 07:29	04/28/26 10:22	1
13C3 PFHxS	111		50 - 200			04/27/26 07:29	04/28/26 10:22	1
13C8 PFOS	107		50 - 200			04/27/26 07:29	04/28/26 10:22	1

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Client Sample Results

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

Job ID: 380-210044-1
SDG: Site D2 PFAS 533/537.1

Client Sample ID: BWS2254-D2-AQ

Lab Sample ID: 380-210044-1

Date Collected: 04/21/26 11:30

Matrix: Water

Date Received: 04/22/26 10:22

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	112		50 - 200	04/27/26 07:29	04/28/26 10:22	1
13C2-6:2-FTS	101		50 - 200	04/27/26 07:29	04/28/26 10:22	1
13C2-8:2-FTS	90		50 - 200	04/27/26 07:29	04/28/26 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		04/25/26 09:46	04/27/26 00:28	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		04/25/26 09:46	04/27/26 00:28	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		04/25/26 09:46	04/27/26 00:28	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		2.0	ng/L		04/25/26 09:46	04/27/26 00:28	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		2.0	ng/L		04/25/26 09:46	04/27/26 00:28	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		04/25/26 09:46	04/27/26 00:28	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		04/25/26 09:46	04/27/26 00:28	1
Perfluorooctanoic acid (PFOA)	4.6		2.0	ng/L		04/25/26 09:46	04/27/26 00:28	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		04/25/26 09:46	04/27/26 00:28	1
Perfluorohexanesulfonic acid (PFHxS)	9.8		2.0	ng/L		04/25/26 09:46	04/27/26 00:28	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		04/25/26 09:46	04/27/26 00:28	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		04/25/26 09:46	04/27/26 00:28	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		04/25/26 09:46	04/27/26 00:28	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0	ng/L		04/25/26 09:46	04/27/26 00:28	1
Perfluorotridecanoic acid (PFTDA)	<2.0		2.0	ng/L		04/25/26 09:46	04/27/26 00:28	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	<2.0		2.0	ng/L		04/25/26 09:46	04/27/26 00:28	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		04/25/26 09:46	04/27/26 00:28	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		04/25/26 09:46	04/27/26 00:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	103		70 - 130			04/25/26 09:46	04/27/26 00:28	1
13C2 PFHxA	108		70 - 130			04/25/26 09:46	04/27/26 00:28	1
13C2 PFDA	108		70 - 130			04/25/26 09:46	04/27/26 00:28	1
13C3-GenX	103		70 - 130			04/25/26 09:46	04/27/26 00:28	1

Client Sample ID: BWS2254-D2-FB

Lab Sample ID: 380-210044-2

Date Collected: 04/21/26 11:30

Matrix: Water

Date Received: 04/22/26 10:22

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		04/25/26 09:46	04/27/26 00:38	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		04/25/26 09:46	04/27/26 00:38	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		04/25/26 09:46	04/27/26 00:38	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		2.0	ng/L		04/25/26 09:46	04/27/26 00:38	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		2.0	ng/L		04/25/26 09:46	04/27/26 00:38	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		04/25/26 09:46	04/27/26 00:38	1

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Client Sample Results

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

Job ID: 380-210044-1
SDG: Site D2 PFAS 533/537.1

Client Sample ID: BWS2254-D2-FB

Lab Sample ID: 380-210044-2

Date Collected: 04/21/26 11:30

Matrix: Water

Date Received: 04/22/26 10:22

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		04/25/26 09:46	04/27/26 00:38	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		04/25/26 09:46	04/27/26 00:38	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		04/25/26 09:46	04/27/26 00:38	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		04/25/26 09:46	04/27/26 00:38	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		04/25/26 09:46	04/27/26 00:38	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		04/25/26 09:46	04/27/26 00:38	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		04/25/26 09:46	04/27/26 00:38	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0	ng/L		04/25/26 09:46	04/27/26 00:38	1
Perfluorotridecanoic acid (PFTrDA)	<2.0		2.0	ng/L		04/25/26 09:46	04/27/26 00:38	1
9-Chlorohexadecafluoro-3-oxanonan	<2.0		2.0	ng/L		04/25/26 09:46	04/27/26 00:38	1
e-1-sulfonic acid(9CI-PF3ONS)								
11-Chloroeicosafluoro-3-oxaundecan	<2.0		2.0	ng/L		04/25/26 09:46	04/27/26 00:38	1
e-1-sulfonic acid (11CI-PF3OUdS)								
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		04/25/26 09:46	04/27/26 00:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	106		70 - 130			04/25/26 09:46	04/27/26 00:38	1
13C2 PFHxA	106		70 - 130			04/25/26 09:46	04/27/26 00:38	1
13C2 PFDA	110		70 - 130			04/25/26 09:46	04/27/26 00:38	1
13C3-GenX	105		70 - 130			04/25/26 09:46	04/27/26 00:38	1

Action Limit Summary

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

Job ID: 380-210044-1
SDG: Site D2 PFAS 533/537.1

Client Sample ID: BWS2254-D2-AQ

Lab Sample ID: 380-210044-1

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)	9.7		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)	4.2		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)	4.6		ng/L	4	2.0	EPA 537.1 V2	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	9.8		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: BWS2254-D2-FB

Lab Sample ID: 380-210044-2

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	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: 380-210044-1
SDG: Site D2 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)
380-209872-E-1-A MS	Matrix Spike	104	106	107	103
380-209872-F-1-A MSD	Matrix Spike Duplicate	106	111	111	108
380-210044-1	BWS2254-D2-AQ	103	108	108	103
380-210044-2	BWS2254-D2-FB	106	106	110	105
LCS 380-222926/23-A	Lab Control Sample	101	119	115	109
MBL 380-222926/21-A	Method Blank	110	114	111	102
MRL 380-222926/22-A	Lab Control Sample	104	108	102	102

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: 380-210044-1
SDG: Site D2 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)
380-209591-B-7-A MS	Matrix Spike	112	110	110	116	111	109	109	111
380-209591-C-7-A MSD	Matrix Spike Duplicate	112	111	113	113	110	112	109	114
380-210044-1	BWS2254-D2-AQ	99	94	104	102	98	93	94	97
LCS 380-223143/22-A	Lab Control Sample	104	110	106	106	109	112	109	110
MBL 380-223143/20-A	Method Blank	88	97	94	99	101	97	101	109
MRL 380-223143/21-A	Lab Control Sample	86	98	90	93	97	97	96	102
		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFBA (50-200)	PFPeA (50-200)	C3PFBS (50-200)	C3PFHS (50-200)	C8PFOS (50-200)	42FTS (50-200)	62FTS (50-200)	82FTS (50-200)
380-209591-B-7-A MS	Matrix Spike	109	108	111	110	110	99	94	90
380-209591-C-7-A MSD	Matrix Spike Duplicate	113	113	109	108	111	95	95	92
380-210044-1	BWS2254-D2-AQ	107	112	110	111	107	112	101	90
LCS 380-223143/22-A	Lab Control Sample	88	104	115	114	113	105	100	98
MBL 380-223143/20-A	Method Blank	97	95	109	109	113	105	102	99
MRL 380-223143/21-A	Lab Control Sample	82	90	110	112	116	107	103	96
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: 380-210044-1
SDG: Site D2 PFAS 533/537.1

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

Lab Sample ID: MBL 380-223143/20-A

Matrix: Water

Analysis Batch: 223382

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 223143

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		04/27/26 07:29	04/28/26 06:45	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS)	<0.30		2.0	ng/L		04/27/26 07:29	04/28/26 06:45	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.60		2.0	ng/L		04/27/26 07:29	04/28/26 06:45	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<1.0		2.0	ng/L		04/27/26 07:29	04/28/26 06:45	1
Perfluorobutanesulfonic acid (PFBS)	<0.37		2.0	ng/L		04/27/26 07:29	04/28/26 06:45	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	ng/L		04/27/26 07:29	04/28/26 06:45	1
Perfluorododecanoic acid (PFDoA)	<0.54		2.0	ng/L		04/27/26 07:29	04/28/26 06:45	1
Perfluoroheptanoic acid (PFHpA)	<0.39		2.0	ng/L		04/27/26 07:29	04/28/26 06:45	1
Perfluorohexanesulfonic acid (PFHxS)	<0.32		2.0	ng/L		04/27/26 07:29	04/28/26 06:45	1
Perfluorohexanoic acid (PFHxA)	<0.46		2.0	ng/L		04/27/26 07:29	04/28/26 06:45	1
Perfluorononanoic acid (PFNA)	<0.40		2.0	ng/L		04/27/26 07:29	04/28/26 06:45	1
Perfluorooctanesulfonic acid (PFOS)	<0.43		2.0	ng/L		04/27/26 07:29	04/28/26 06:45	1
Perfluorooctanoic acid (PFOA)	<0.38		2.0	ng/L		04/27/26 07:29	04/28/26 06:45	1
Perfluoroundecanoic acid (PFUnA)	<0.42		2.0	ng/L		04/27/26 07:29	04/28/26 06:45	1
Perfluorobutanoic acid (PFBA)	<0.69		2.0	ng/L		04/27/26 07:29	04/28/26 06:45	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<0.38		2.0	ng/L		04/27/26 07:29	04/28/26 06:45	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<0.37		2.0	ng/L		04/27/26 07:29	04/28/26 06:45	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<0.48		2.0	ng/L		04/27/26 07:29	04/28/26 06:45	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.47		2.0	ng/L		04/27/26 07:29	04/28/26 06:45	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<0.25		2.0	ng/L		04/27/26 07:29	04/28/26 06:45	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.46		2.0	ng/L		04/27/26 07:29	04/28/26 06:45	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.15		2.0	ng/L		04/27/26 07:29	04/28/26 06:45	1
Perfluoropentanoic acid (PFPeA)	<0.38		2.0	ng/L		04/27/26 07:29	04/28/26 06:45	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.36		2.0	ng/L		04/27/26 07:29	04/28/26 06:45	1
Perfluoropentanesulfonic acid (PFPeS)	<0.39		2.0	ng/L		04/27/26 07:29	04/28/26 06:45	1

Isotope Dilution	MBL %Recovery	MBL Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	88		50 - 200	04/27/26 07:29	04/28/26 06:45	1
13C6 PFDA	97		50 - 200	04/27/26 07:29	04/28/26 06:45	1
13C5 PFHxA	94		50 - 200	04/27/26 07:29	04/28/26 06:45	1
13C4 PFHpA	99		50 - 200	04/27/26 07:29	04/28/26 06:45	1
13C8 PFOA	101		50 - 200	04/27/26 07:29	04/28/26 06:45	1
13C9 PFNA	97		50 - 200	04/27/26 07:29	04/28/26 06:45	1
13C7 PFUnA	101		50 - 200	04/27/26 07:29	04/28/26 06:45	1
13C2 PFDoA	109		50 - 200	04/27/26 07:29	04/28/26 06:45	1
13C4 PFBA	97		50 - 200	04/27/26 07:29	04/28/26 06:45	1
13C5 PFPeA	95		50 - 200	04/27/26 07:29	04/28/26 06:45	1
13C3 PFBS	109		50 - 200	04/27/26 07:29	04/28/26 06:45	1
13C3 PFHxS	109		50 - 200	04/27/26 07:29	04/28/26 06:45	1

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QC Sample Results

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

Job ID: 380-210044-1
SDG: Site D2 PFAS 533/537.1

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

Lab Sample ID: MBL 380-223143/20-A

Matrix: Water

Analysis Batch: 223382

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 223143

Isotope Dilution	MBL %Recovery	MBL Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOS	113		50 - 200	04/27/26 07:29	04/28/26 06:45	1
13C2-4:2-FTS	105		50 - 200	04/27/26 07:29	04/28/26 06:45	1
13C2-6:2-FTS	102		50 - 200	04/27/26 07:29	04/28/26 06:45	1
13C2-8:2-FTS	99		50 - 200	04/27/26 07:29	04/28/26 06:45	1

Lab Sample ID: LCS 380-223143/22-A

Matrix: Water

Analysis Batch: 223382

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 223143

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	60.0	56.2		ng/L		94	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	60.0	57.5		ng/L		96	70 - 130
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	60.0	59.0		ng/L		98	70 - 130
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	60.0	58.5		ng/L		97	70 - 130
Perfluorobutanesulfonic acid (PFBS)	60.0	57.1		ng/L		95	70 - 130
Perfluorodecanoic acid (PFDA)	60.0	56.2		ng/L		94	70 - 130
Perfluorododecanoic acid (PFDoA)	60.0	59.2		ng/L		99	70 - 130
Perfluorooheptanoic acid (PFHpA)	60.0	60.0		ng/L		100	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	60.0	57.2		ng/L		95	70 - 130
Perfluorohexanoic acid (PFHxA)	60.0	58.9		ng/L		98	70 - 130
Perfluorononanoic acid (PFNA)	60.0	56.6		ng/L		94	70 - 130
Perfluorooctanesulfonic acid (PFOS)	60.0	59.1		ng/L		99	70 - 130
Perfluorooctanoic acid (PFOA)	60.0	58.4		ng/L		97	70 - 130
Perfluoroundecanoic acid (PFUnA)	60.0	60.4		ng/L		101	70 - 130
Perfluorobutanoic acid (PFBA)	60.0	58.2		ng/L		97	70 - 130
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	60.0	59.9		ng/L		100	70 - 130
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	60.0	59.3		ng/L		99	70 - 130
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	60.0	59.2		ng/L		99	70 - 130
Nonfluoro-3,6-dioxahexanoic acid (NFDHA)	60.0	62.9		ng/L		105	70 - 130
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	60.0	55.2		ng/L		92	70 - 130
Perfluoro-3-methoxypropanoic acid (PFMPA)	60.0	70.6		ng/L		118	70 - 130
Perfluoro-4-methoxybutanoic acid (PFMBA)	60.0	60.3		ng/L		100	70 - 130
Perfluoropentanoic acid (PFPeA)	60.0	60.3		ng/L		101	70 - 130
Perfluoroheptanesulfonic acid (PFHpS)	60.0	60.9		ng/L		101	70 - 130

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QC Sample Results

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

Job ID: 380-210044-1
SDG: Site D2 PFAS 533/537.1

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

Lab Sample ID: LCS 380-223143/22-A

Matrix: Water

Analysis Batch: 223382

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 223143

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoropentanesulfonic acid (PFPeS)	60.0	58.6		ng/L		98	70 - 130
	LCS	LCS					
Isotope Dilution	%Recovery	Qualifier	Limits				
13C3 HFPO-DA	104		50 - 200				
13C6 PFDA	110		50 - 200				
13C5 PFHxA	106		50 - 200				
13C4 PFHpA	106		50 - 200				
13C8 PFOA	109		50 - 200				
13C9 PFNA	112		50 - 200				
13C7 PFUnA	109		50 - 200				
13C2 PFDoA	110		50 - 200				
13C4 PFBA	88		50 - 200				
13C5 PFPeA	104		50 - 200				
13C3 PFBS	115		50 - 200				
13C3 PFHxS	114		50 - 200				
13C8 PFOS	113		50 - 200				
13C2-4:2-FTS	105		50 - 200				
13C2-6:2-FTS	100		50 - 200				
13C2-8:2-FTS	98		50 - 200				

Lab Sample ID: MRL 380-223143/21-A

Matrix: Water

Analysis Batch: 223382

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 223143

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.00	1.79	J	ng/L		89	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	2.00	1.88	J	ng/L		94	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	2.00	2.13	J	ng/L		106	50 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	2.00	2.11	J	ng/L		105	50 - 150
Perfluorobutanesulfonic acid (PFBS)	2.00	2.07	J	ng/L		103	50 - 150
Perfluorodecanoic acid (PFDA)	2.00	1.91	J	ng/L		96	50 - 150
Perfluorododecanoic acid (PFDoA)	2.00	2.07	J	ng/L		103	50 - 150
Perfluoroheptanoic acid (PFHpA)	2.00	2.06	J	ng/L		103	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	2.00	2.05	J	ng/L		102	50 - 150
Perfluorohexanoic acid (PFHxA)	2.00	2.16	J	ng/L		108	50 - 150
Perfluorononanoic acid (PFNA)	2.00	2.10	J	ng/L		105	50 - 150
Perfluorooctanesulfonic acid (PFOS)	2.00	2.04	J	ng/L		102	50 - 150
Perfluorooctanoic acid (PFOA)	2.00	2.12	J	ng/L		106	50 - 150
Perfluoroundecanoic acid (PFUnA)	2.00	2.06	J	ng/L		103	50 - 150
Perfluorobutanoic acid (PFBA)	2.00	2.05	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: 380-210044-1
SDG: Site D2 PFAS 533/537.1

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

Lab Sample ID: MRL 380-223143/21-A

Matrix: Water

Analysis Batch: 223382

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 223143

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	2.00	2.19	J	ng/L		109	50 - 150
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	2.00	2.21	J	ng/L		110	50 - 150
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	2.00	2.06	J	ng/L		103	50 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	2.00	2.11	J	ng/L		105	50 - 150
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEA)	2.00	2.03	J	ng/L		101	50 - 150
Perfluoro-3-methoxypropanoic acid (PFMPA)	2.00	2.37	J	ng/L		118	50 - 150
Perfluoro-4-methoxybutanoic acid (PFMBA)	2.00	2.01	J	ng/L		100	50 - 150
Perfluoropentanoic acid (PFPeA)	2.00	2.16	J	ng/L		108	50 - 150
Perfluoroheptanesulfonic acid (PFHpS)	2.00	1.97	J	ng/L		98	50 - 150
Perfluoropentanesulfonic acid (PFPeS)	2.00	2.00	J	ng/L		100	50 - 150

Isotope Dilution	MRL %Recovery	MRL Qualifier	Limits
13C3 HFPO-DA	86		50 - 200
13C6 PFDA	98		50 - 200
13C5 PFHxA	90		50 - 200
13C4 PFHpA	93		50 - 200
13C8 PFOA	97		50 - 200
13C9 PFNA	97		50 - 200
13C7 PFUnA	96		50 - 200
13C2 PFDoA	102		50 - 200
13C4 PFBA	82		50 - 200
13C5 PFPeA	90		50 - 200
13C3 PFBS	110		50 - 200
13C3 PFHxS	112		50 - 200
13C8 PFOS	116		50 - 200
13C2-4:2-FTS	107		50 - 200
13C2-6:2-FTS	103		50 - 200
13C2-8:2-FTS	96		50 - 200

Lab Sample ID: 380-209591-B-7-A MS

Matrix: Water

Analysis Batch: 223382

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 223143

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		60.4	56.0		ng/L		93	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	<2.0		60.4	56.7		ng/L		94	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		60.4	60.8		ng/L		101	70 - 130

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QC Sample Results

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

Job ID: 380-210044-1
SDG: Site D2 PFAS 533/537.1

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

Lab Sample ID: 380-209591-B-7-A MS

Client Sample ID: Matrix Spike

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 223382

Prep Batch: 223143

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Hexafluoropropylene Oxide	<2.0		60.4	60.8		ng/L		101	70 - 130
Dimer Acid (HFPO-DA/GenX)									
Perfluorobutanesulfonic acid (PFBS)	5.9		60.4	66.2		ng/L		100	70 - 130
Perfluorodecanoic acid (PFDA)	<2.0		60.4	58.3		ng/L		97	70 - 130
Perfluorododecanoic acid (PFDoA)	<2.0		60.4	59.6		ng/L		99	70 - 130
Perfluoroheptanoic acid (PFHpA)	<2.0		60.4	56.8		ng/L		94	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	6.4		60.4	65.7		ng/L		98	70 - 130
Perfluorohexanoic acid (PFHxA)	<2.0		60.4	61.1		ng/L		100	70 - 130
Perfluorononanoic acid (PFNA)	<2.0		60.4	60.1		ng/L		100	70 - 130
Perfluorooctanesulfonic acid (PFOS)	4.2		60.4	65.0		ng/L		101	70 - 130
Perfluorooctanoic acid (PFOA)	<2.0		60.4	59.0		ng/L		97	70 - 130
Perfluoroundecanoic acid (PFUnA)	<2.0		60.4	59.9		ng/L		99	70 - 130
Perfluorobutanoic acid (PFBA)	<2.0		60.4	60.3		ng/L		100	70 - 130
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		60.4	60.4		ng/L		100	70 - 130
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		60.4	60.9		ng/L		101	70 - 130
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		60.4	63.1		ng/L		105	70 - 130
Nonafluoro-3,6-dioxahexanoic acid (NFDHA)	<2.0		60.4	65.4		ng/L		108	70 - 130
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEA)	<2.0		60.4	57.5		ng/L		95	70 - 130
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		60.4	59.7		ng/L		99	70 - 130
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		60.4	61.1		ng/L		101	70 - 130
Perfluoropentanoic acid (PFPeA)	<2.0		60.4	61.8		ng/L		101	70 - 130
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		60.4	60.8		ng/L		100	70 - 130
Perfluoropentanesulfonic acid (PFPeS)	<2.0		60.4	61.6		ng/L		100	70 - 130

Isotope Dilution	MS %Recovery	MS Qualifier	Limits
13C3 HFPO-DA	112		50 - 200
13C6 PFDA	110		50 - 200
13C5 PFHxA	110		50 - 200
13C4 PFHpA	116		50 - 200
13C8 PFOA	111		50 - 200
13C9 PFNA	109		50 - 200
13C7 PFUnA	109		50 - 200
13C2 PFDoA	111		50 - 200
13C4 PFBA	109		50 - 200
13C5 PFPeA	108		50 - 200
13C3 PFBS	111		50 - 200
13C3 PFHxS	110		50 - 200
13C8 PFOS	110		50 - 200

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QC Sample Results

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

Job ID: 380-210044-1
SDG: Site D2 PFAS 533/537.1

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

Lab Sample ID: 380-209591-B-7-A MS

Matrix: Water

Analysis Batch: 223382

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 223143

Isotope Dilution	MS %Recovery	MS Qualifier	Limits
13C2-4:2-FTS	99		50 - 200
13C2-6:2-FTS	94		50 - 200
13C2-8:2-FTS	90		50 - 200

Lab Sample ID: 380-209591-C-7-A MSD

Matrix: Water

Analysis Batch: 223382

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 223143

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		60.2	54.3		ng/L		90	70 - 130	3	30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		60.2	55.1		ng/L		92	70 - 130	3	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		60.2	58.7		ng/L		98	70 - 130	3	30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		60.2	60.4		ng/L		100	70 - 130	1	30
Perfluorobutanesulfonic acid (PFBS)	5.9		60.2	65.7		ng/L		99	70 - 130	1	30
Perfluorodecanoic acid (PFDA)	<2.0		60.2	55.7		ng/L		92	70 - 130	5	30
Perfluorododecanoic acid (PFDoA)	<2.0		60.2	57.0		ng/L		95	70 - 130	4	30
Perfluoroheptanoic acid (PFHpA)	<2.0		60.2	59.6		ng/L		99	70 - 130	5	30
Perfluorohexanesulfonic acid (PFHxS)	6.4		60.2	65.5		ng/L		98	70 - 130	0	30
Perfluorohexanoic acid (PFHxA)	<2.0		60.2	58.7		ng/L		97	70 - 130	4	30
Perfluorononanoic acid (PFNA)	<2.0		60.2	59.7		ng/L		99	70 - 130	1	30
Perfluorooctanesulfonic acid (PFOS)	4.2		60.2	61.9		ng/L		96	70 - 130	5	30
Perfluorooctanoic acid (PFOA)	<2.0		60.2	59.1		ng/L		97	70 - 130	0	30
Perfluoroundecanoic acid (PFUnA)	<2.0		60.2	59.9		ng/L		99	70 - 130	0	30
Perfluorobutanoic acid (PFBA)	<2.0		60.2	60.2		ng/L		100	70 - 130	0	30
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		60.2	59.4		ng/L		99	70 - 130	2	30
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		60.2	60.2		ng/L		100	70 - 130	1	30
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		60.2	59.5		ng/L		99	70 - 130	6	30
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		60.2	59.1		ng/L		98	70 - 130	10	30
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEA)	<2.0		60.2	59.5		ng/L		99	70 - 130	3	30
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		60.2	60.0		ng/L		100	70 - 130	1	30
Perfluoro-4-methoxybutanoic acid (PFMPA)	<2.0		60.2	60.7		ng/L		101	70 - 130	1	30
Perfluoropentanoic acid (PFPeA)	<2.0		60.2	61.0		ng/L		100	70 - 130	1	30
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		60.2	58.4		ng/L		96	70 - 130	4	30
Perfluoropentanesulfonic acid (PFPeS)	<2.0		60.2	61.5		ng/L		99	70 - 130	0	30

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QC Sample Results

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

Job ID: 380-210044-1
SDG: Site D2 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	112		50 - 200
13C6 PFDA	111		50 - 200
13C5 PFHxA	113		50 - 200
13C4 PFHpA	113		50 - 200
13C8 PFOA	110		50 - 200
13C9 PFNA	112		50 - 200
13C7 PFUnA	109		50 - 200
13C2 PFDoA	114		50 - 200
13C4 PFBA	113		50 - 200
13C5 PFPeA	113		50 - 200
13C3 PFBS	109		50 - 200
13C3 PFHxS	108		50 - 200
13C8 PFOS	111		50 - 200
13C2-4:2-FTS	95		50 - 200
13C2-6:2-FTS	95		50 - 200
13C2-8:2-FTS	92		50 - 200

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

Lab Sample ID: MBL 380-222926/21-A
Matrix: Water
Analysis Batch: 222999

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 222926

Analyte	MBL MBL		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Hexafluoropropylene Oxide Dimer	<1.0		2.0	ng/L		04/25/26 09:46	04/26/26 22:43	1
Acid (HFPO-DA/GenX)								
Perfluorooctanesulfonic acid (PFOS)	<0.43		2.0	ng/L		04/25/26 09:46	04/26/26 22:43	1
Perfluoroundecanoic acid (PFUnA)	<0.42		2.0	ng/L		04/25/26 09:46	04/26/26 22:43	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.58		2.0	ng/L		04/25/26 09:46	04/26/26 22:43	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.42		2.0	ng/L		04/25/26 09:46	04/26/26 22:43	1
Perfluorohexanoic acid (PFHxA)	<0.46		2.0	ng/L		04/25/26 09:46	04/26/26 22:43	1
Perfluorododecanoic acid (PFDoA)	<0.54		2.0	ng/L		04/25/26 09:46	04/26/26 22:43	1
Perfluorooctanoic acid (PFOA)	<0.38		2.0	ng/L		04/25/26 09:46	04/26/26 22:43	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	ng/L		04/25/26 09:46	04/26/26 22:43	1
Perfluorohexanesulfonic acid (PFHxS)	<0.32		2.0	ng/L		04/25/26 09:46	04/26/26 22:43	1
Perfluorobutanesulfonic acid (PFBS)	<0.37		2.0	ng/L		04/25/26 09:46	04/26/26 22:43	1
Perfluoroheptanoic acid (PFHpA)	<0.39		2.0	ng/L		04/25/26 09:46	04/26/26 22:43	1
Perfluorononanoic acid (PFNA)	<0.40		2.0	ng/L		04/25/26 09:46	04/26/26 22:43	1
Perfluorotetradecanoic acid (PFTA)	<0.54		2.0	ng/L		04/25/26 09:46	04/26/26 22:43	1
Perfluorotridecanoic acid (PFTTrDA)	<0.36		2.0	ng/L		04/25/26 09:46	04/26/26 22:43	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	<0.30		2.0	ng/L		04/25/26 09:46	04/26/26 22:43	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<0.30		2.0	ng/L		04/25/26 09:46	04/26/26 22:43	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.60		2.0	ng/L		04/25/26 09:46	04/26/26 22:43	1
Surrogate	MBL MBL		Limits			Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier						
d5-NEtFOSAA	110		70 - 130			04/25/26 09:46	04/26/26 22:43	1
13C2 PFHxA	114		70 - 130			04/25/26 09:46	04/26/26 22:43	1
13C2 PFDA	111		70 - 130			04/25/26 09:46	04/26/26 22:43	1

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QC Sample Results

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

Job ID: 380-210044-1
SDG: Site D2 PFAS 533/537.1

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

Lab Sample ID: MBL 380-222926/21-A

Matrix: Water

Analysis Batch: 222999

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 222926

Surrogate	MBL %Recovery	MBL Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3-GenX	102		70 - 130	04/25/26 09:46	04/26/26 22:43	1

Lab Sample ID: LCS 380-222926/23-A

Matrix: Water

Analysis Batch: 222999

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 222926

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Hexafluoropropylene Oxide	25.1	22.5		ng/L		90	70 - 130
Dimer Acid (HFPO-DA/GenX)							
Perfluorooctanesulfonic acid (PFOS)	25.1	26.0		ng/L		104	70 - 130
Perfluoroundecanoic acid (PFUnA)	25.1	25.8		ng/L		103	70 - 130
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	25.1	23.8		ng/L		95	70 - 130
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	25.1	24.2		ng/L		97	70 - 130
Perfluorohexanoic acid (PFHxA)	25.1	24.8		ng/L		99	70 - 130
Perfluorododecanoic acid (PFDoA)	25.1	25.5		ng/L		102	70 - 130
Perfluorooctanoic acid (PFOA)	25.1	25.5		ng/L		102	70 - 130
Perfluorodecanoic acid (PFDA)	25.1	24.8		ng/L		99	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	25.1	26.2		ng/L		105	70 - 130
Perfluorobutanesulfonic acid (PFBS)	25.1	26.2		ng/L		104	70 - 130
Perfluoroheptanoic acid (PFHpA)	25.1	24.4		ng/L		97	70 - 130
Perfluorononanoic acid (PFNA)	25.1	25.8		ng/L		103	70 - 130
Perfluorotetradecanoic acid (PFTA)	25.1	23.1		ng/L		92	70 - 130
Perfluorotridecanoic acid (PFTrDA)	25.1	25.1		ng/L		100	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	25.1	25.0		ng/L		100	70 - 130
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	25.1	23.9		ng/L		95	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	25.1	22.7		ng/L		91	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
d5-NEtFOSAA	101		70 - 130
13C2 PFHxA	119		70 - 130
13C2 PFDA	115		70 - 130
13C3-GenX	109		70 - 130

QC Sample Results

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

Job ID: 380-210044-1
SDG: Site D2 PFAS 533/537.1

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

Lab Sample ID: MRL 380-222926/22-A

Matrix: Water

Analysis Batch: 222999

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 222926

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Hexafluoropropylene Oxide	2.00	1.93	J	ng/L		96	50 - 150
Dimer Acid (HFPO-DA/GenX)							
Perfluorooctanesulfonic acid (PFOS)	2.00	1.92	J	ng/L		96	50 - 150
Perfluoroundecanoic acid (PFUnA)	2.00	1.94	J	ng/L		97	50 - 150
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.00	2.06	J	ng/L		103	50 - 150
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.00	2.04	J	ng/L		102	50 - 150
Perfluorohexanoic acid (PFHxA)	2.00	2.09	J	ng/L		104	50 - 150
Perfluorododecanoic acid (PFDoA)	2.00	1.94	J	ng/L		97	50 - 150
Perfluorooctanoic acid (PFOA)	2.00	2.00	J	ng/L		100	50 - 150
Perfluorodecanoic acid (PFDA)	2.00	1.88	J	ng/L		94	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	2.00	2.04	J	ng/L		102	50 - 150
Perfluorobutanesulfonic acid (PFBS)	2.00	2.06	J	ng/L		103	50 - 150
Perfluoroheptanoic acid (PFHpA)	2.00	2.03	J	ng/L		101	50 - 150
Perfluorononanoic acid (PFNA)	2.00	2.08	J	ng/L		104	50 - 150
Perfluorotetradecanoic acid (PFTA)	2.00	1.67	J	ng/L		83	50 - 150
Perfluorotridecanoic acid (PFTrDA)	2.00	1.92	J	ng/L		96	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	2.00	1.87	J	ng/L		94	50 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.00	1.82	J	ng/L		91	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	2.00	1.90	J	ng/L		95	50 - 150

Surrogate	MRL %Recovery	MRL Qualifier	Limits
d5-NEtFOSAA	104		70 - 130
13C2 PFHxA	108		70 - 130
13C2 PFDA	102		70 - 130
13C3-GenX	102		70 - 130

Lab Sample ID: 380-209872-E-1-A MS

Matrix: Water

Analysis Batch: 222999

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 222926

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Hexafluoropropylene Oxide	<2.0		25.1	24.6		ng/L		98	70 - 130
Dimer Acid (HFPO-DA/GenX)									
Perfluorooctanesulfonic acid (PFOS)	<2.0		25.1	27.9		ng/L		105	70 - 130
Perfluoroundecanoic acid (PFUnA)	<2.0		25.1	24.9		ng/L		99	70 - 130
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		25.1	27.1		ng/L		108	70 - 130

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QC Sample Results

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

Job ID: 380-210044-1
SDG: Site D2 PFAS 533/537.1

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

Lab Sample ID: 380-209872-E-1-A MS

Matrix: Water

Analysis Batch: 222999

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 222926

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec		
	Result	Qualifier	Added	Result	Qualifier			Limits		
N-ethylperfluorooctanesulfonami doacetic acid (NEtFOSAA)	<2.0		25.1	26.8		ng/L		107	70 - 130	
Perfluorohexanoic acid (PFHxA)	2.5		25.1	28.2		ng/L		102	70 - 130	
Perfluorododecanoic acid (PFDoA)	<2.0		25.1	25.7		ng/L		103	70 - 130	
Perfluorooctanoic acid (PFOA)	<2.0		25.1	27.2		ng/L		102	70 - 130	
Perfluorodecanoic acid (PFDA)	<2.0		25.1	26.5		ng/L		105	70 - 130	
Perfluorohexanesulfonic acid (PFHxS)	<2.0		25.1	27.6		ng/L		104	70 - 130	
Perfluorobutanesulfonic acid (PFBS)	2.0		25.1	27.1		ng/L		100	70 - 130	
Perfluoroheptanoic acid (PFHpA)	<2.0		25.1	27.4		ng/L		105	70 - 130	
Perfluorononanoic acid (PFNA)	<2.0		25.1	26.9		ng/L		107	70 - 130	
Perfluorotetradecanoic acid (PFTA)	<2.0		25.1	23.8		ng/L		95	70 - 130	
Perfluorotridecanoic acid (PFTrDA)	<2.0		25.1	25.2		ng/L		100	70 - 130	
9-Chlorohexadecafluoro-3-oxan onane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		25.1	24.9		ng/L		99	70 - 130	
11-Chloroeicosafluoro-3-oxaund ecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		25.1	23.8		ng/L		95	70 - 130	
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		25.1	24.7		ng/L		98	70 - 130	

Lab Sample ID: 380-209872-F-1-A MSD

Matrix: Water

Analysis Batch: 222999

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 222926

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		25.1	24.0		ng/L		96	70 - 130	2	30
Perfluorooctanesulfonic acid (PFOS)	<2.0		25.1	27.9		ng/L		105	70 - 130	0	30
Perfluoroundecanoic acid (PFUnA)	<2.0		25.1	24.2		ng/L		96	70 - 130	3	30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		25.1	25.7		ng/L		102	70 - 130	5	30
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		25.1	24.8		ng/L		99	70 - 130	8	30
Perfluorohexanoic acid (PFHxA)	2.5		25.1	27.2		ng/L		98	70 - 130	4	30
Perfluorododecanoic acid (PFDoA)	<2.0		25.1	24.4		ng/L		98	70 - 130	5	30
Perfluorooctanoic acid (PFOA)	<2.0		25.1	26.9		ng/L		101	70 - 130	1	30
Perfluorodecanoic acid (PFDA)	<2.0		25.1	25.8		ng/L		103	70 - 130	2	30

Eurofins Pomona

QC Sample Results

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

Job ID: 380-210044-1
SDG: Site D2 PFAS 533/537.1

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

Lab Sample ID: 380-209872-F-1-A MSD

Matrix: Water

Analysis Batch: 222999

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 222926

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorohexanesulfonic acid (PFHxS)	<2.0		25.1	27.4		ng/L		104	70 - 130	1	30
Perfluorobutanesulfonic acid (PFBS)	2.0		25.1	27.2		ng/L		101	70 - 130	0	30
Perfluoroheptanoic acid (PFHpA)	<2.0		25.1	25.8		ng/L		98	70 - 130	6	30
Perfluorononanoic acid (PFNA)	<2.0		25.1	23.9		ng/L		95	70 - 130	12	30
Perfluorotetradecanoic acid (PFTA)	<2.0		25.1	21.5		ng/L		86	70 - 130	10	30
Perfluorotridecanoic acid (PFTrDA)	<2.0		25.1	23.7		ng/L		95	70 - 130	6	30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		25.1	25.9		ng/L		103	70 - 130	4	30
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		25.1	24.6		ng/L		98	70 - 130	3	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		25.1	23.9		ng/L		95	70 - 130	3	30
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
d5-NEtFOSAA	106		70 - 130								
13C2 PFHxA	111		70 - 130								
13C2 PFDA	111		70 - 130								
13C3-GenX	108		70 - 130								

QC Association Summary

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

Job ID: 380-210044-1
SDG: Site D2 PFAS 533/537.1

LCMS

Prep Batch: 222926

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-210044-1	BWS2254-D2-AQ	Total/NA	Water	537.1 DW	
380-210044-2	BWS2254-D2-FB	Total/NA	Water	537.1 DW	
MBL 380-222926/21-A	Method Blank	Total/NA	Water	537.1 DW	
LCS 380-222926/23-A	Lab Control Sample	Total/NA	Water	537.1 DW	
MRL 380-222926/22-A	Lab Control Sample	Total/NA	Water	537.1 DW	
380-209872-E-1-A MS	Matrix Spike	Total/NA	Water	537.1 DW	
380-209872-F-1-A MSD	Matrix Spike Duplicate	Total/NA	Water	537.1 DW	

Analysis Batch: 222999

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-210044-1	BWS2254-D2-AQ	Total/NA	Water	EPA 537.1 V2	222926
380-210044-2	BWS2254-D2-FB	Total/NA	Water	EPA 537.1 V2	222926
MBL 380-222926/21-A	Method Blank	Total/NA	Water	EPA 537.1 V2	222926
LCS 380-222926/23-A	Lab Control Sample	Total/NA	Water	EPA 537.1 V2	222926
MRL 380-222926/22-A	Lab Control Sample	Total/NA	Water	EPA 537.1 V2	222926
380-209872-E-1-A MS	Matrix Spike	Total/NA	Water	EPA 537.1 V2	222926
380-209872-F-1-A MSD	Matrix Spike Duplicate	Total/NA	Water	EPA 537.1 V2	222926

Prep Batch: 223143

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-210044-1	BWS2254-D2-AQ	Total/NA	Water	533	
MBL 380-223143/20-A	Method Blank	Total/NA	Water	533	
LCS 380-223143/22-A	Lab Control Sample	Total/NA	Water	533	
MRL 380-223143/21-A	Lab Control Sample	Total/NA	Water	533	
380-209591-B-7-A MS	Matrix Spike	Total/NA	Water	533	
380-209591-C-7-A MSD	Matrix Spike Duplicate	Total/NA	Water	533	

Analysis Batch: 223382

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-210044-1	BWS2254-D2-AQ	Total/NA	Water	533	223143
MBL 380-223143/20-A	Method Blank	Total/NA	Water	533	223143
LCS 380-223143/22-A	Lab Control Sample	Total/NA	Water	533	223143
MRL 380-223143/21-A	Lab Control Sample	Total/NA	Water	533	223143
380-209591-B-7-A MS	Matrix Spike	Total/NA	Water	533	223143
380-209591-C-7-A MSD	Matrix Spike Duplicate	Total/NA	Water	533	223143

Lab Chronicle

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

Job ID: 380-210044-1
SDG: Site D2 PFAS 533/537.1

Client Sample ID: BWS2254-D2-AQ

Lab Sample ID: 380-210044-1

Date Collected: 04/21/26 11:30

Matrix: Water

Date Received: 04/22/26 10:22

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			223143	XTD8	EA POM	04/27/26 07:29
Total/NA	Analysis	533		1	223382	SZ9R	EA POM	04/28/26 10:22
Total/NA	Prep	537.1 DW			222926	E9PK	EA POM	04/25/26 09:46
Total/NA	Analysis	EPA 537.1 V2		1	222999	SZ9R	EA POM	04/27/26 00:28

Client Sample ID: BWS2254-D2-FB

Lab Sample ID: 380-210044-2

Date Collected: 04/21/26 11:30

Matrix: Water

Date Received: 04/22/26 10:22

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			222926	E9PK	EA POM	04/25/26 09:46
Total/NA	Analysis	EPA 537.1 V2		1	222999	SZ9R	EA POM	04/27/26 00:38

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: 380-210044-1
SDG: Site D2 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: 380-210044-1
SDG: Site D2 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

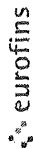
Client: City & County of Honolulu
Project/Site: INTERA - Red-Hill-Incident

Job ID: 380-210044-1
SDG: Site D2 PFAS 533/537.1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
380-210044-1	BWS2254-D2-AQ	Water	04/21/26 11:30	04/22/26 10:22	Hawaii
380-210044-2	BWS2254-D2-FB	Water	04/21/26 11:30	04/22/26 10:22	Hawaii

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Chain of Custody Record



Client Information					
Sampler	Lab PM	Carrier Tracking No(s)	COC No		
Phone:	Lopez, Maria		380-109431-32610 1		
E-Mail:	Maria Lopez@et.eurofinsus.com	State of Origin.	Page		
PWSID*		H7	Page 1 of 1		
Due Date Requested:		Analysis Requested			
TAT Requested (days):					
Compliance Project: Δ Yes Δ No					
PO #:					
WO #:					
Project #:					
SSOW#:					
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, BT=Tissue, A=Air, DW=drinking water)	Field Filtered Sample (Yes or No)
BMS2254-DZ-AD	4/21/20	1130	G	Water	N
Travel Blank				Water	N
BMS2254-DZ-FB	4/21/20	1130	G	W	N
Possible Hazard Identification ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological					
Deliverable Requested I II III IV Other (specify)					
Empty Kit Relinquished by:					
Relinquished by	Date/Time:	Company	Received by	Date/Time:	Method of Shipment:
Relinquished by	4/21/20 1400	INTERA	Received by	4/21/20 1022	FEDX
Relinquished by		Company	Received by		
Relinquished by		Company	Received by		
Custody Seals Intact: Δ Yes Δ No					
Cooler Temperature(s) °C and Other Remarks: 4/21/20 1022 (THAWED) 7/14					

Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-210044-1
SDG Number: Site D2 PFAS 533/537.1

Login Number: 210044

List Number: 1

Creator: Del Rosario, Michael

List Source: Eurofins Pomona

Question	Answer	Comment
The coolers custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
Samples were received on ice.	True	
Cooler(s) Temperature is acceptable.	True	
Cooler(s) Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and is legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
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).	True	
Samples do not require splitting or compositing.	True	
Container provided by EEA	True	