



ANALYTICAL REPORT

PREPARED FOR

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JOB DESCRIPTION

INTERA - Red-Hill-Incident
Site H1 PFAS 1633

JOB NUMBER

380-197405-1

Eurofins Pomona

Job Notes

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

The test results in this report relate only to the samples as received by the laboratory and meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Drinking Water and Wastewater West, LLC Project Manager.

Compliance Statement

1. Laboratory is accredited in accordance with TNI 2016 Standards and ISO/IEC 17025:2017.
2. Laboratory certifies that the test results meet all TNI 2016 and ISO/IEC 17025:2017 requirements unless noted under the individual analysis
3. Test results relate only to the sample(s) tested.
4. This report shall not be reproduced except in full, without the written approval of the laboratory.
5. Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.
(DW, Water matrices)

Authorization



Authorized for release by
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Definitions/Glossary

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

Job ID: 380-197405-1
SDG: Site H1 PFAS 1633

Qualifiers

LCMS

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.

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: 380-197405-1

Job ID: 380-197405-1

Eurofins Pomona

Job Narrative 380-197405-1

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 sample was received on 2/11/2026 9:40 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.6°C.

PFAS

Method QSM B-24: If aqueous samples were extracted beyond 7 days from collection, NMeFOSE, NEtFOSE, NMeFOSAA, and NEtFOSAA may be affected. If soil or tissue samples were extracted beyond 3 days from collection, NFDHA may be affected. If sample extracts, regardless of matrix, were analyzed beyond 28 days from extraction, 9Cl-PF3ONS and 11Cl-PF3OUdS may be affected. Per DoD Environmental Data Quality Workgroup Memorandum dated March 27, 2025, none of these analytes have associated regulatory limits or toxicity factors, thus any additional uncertainty associated with a holding time exceedance for these analytes will not affect current decision making and the DoD is willing to accept any additional uncertainty.

Method QSM B-24: The continuing calibration verification (CCV) associated with batch 320-902318 recovered above the upper control limit for the following isotope dilution analyte (IDA): d7-N-MeFOSE-M and d9-N-EtFOSE-M. The associated target analytes, N-methylperfluorooctane sulfonamidoethanol (NMeFOSE) and N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE), were within control limits in the CCV. The client samples were in control for the affected IDA and non-detects for the associated target analyte. The method blank (MB) associated with this CCV was non-detect, the low level laboratory control sample/ laboratory control sample/ laboratory control sample duplicate (LLCS/LCS/LCSD) recoveries were in control for the associated target analyte; therefore, the data have been reported. The associated samples are impacted: (CCV 320-902318/4), (LCS 320-902120/3-A), (LCSD 320-902120/4-A), (LLCS 320-902120/2-A) and (MB 320-902120/1-A).

Method QSM B-24: The low level laboratory control sample (LLCS), laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 320-902120 and analytical batch 320-902318 recovered outside control limits for the following analytes: 3-Perfluoropropylpropanoic acid (3:3 FTCA). These analytes were biased high in the LLCS/LCS/LCSD and were not detected in the associated samples; therefore, the data have been reported.

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: 380-197405-1
SDG: Site H1 PFAS 1633

Client Sample ID: BWS2253-H1-AQ

Lab Sample ID: 380-197405-1

No Detections.

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16

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: 380-197405-1
SDG: Site H1 PFAS 1633

Client Sample ID: BWS2253-H1-AQ

Lab Sample ID: 380-197405-1

Date Collected: 02/10/26 12:30

Matrix: Water

Date Received: 02/11/26 09:40

Method: DoD 6.0 QSM B-24 - PFAS for QSM 6.0, Table B-24

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.9		2.9	ng/L		02/16/26 20:53	02/17/26 16:35	1
Perfluoropentanoic acid (PFPeA)	<1.4		1.4	ng/L		02/16/26 20:53	02/17/26 16:35	1
Perfluorohexanoic acid (PFHxA)	<1.4		1.4	ng/L		02/16/26 20:53	02/17/26 16:35	1
Perfluoroheptanoic acid (PFHpA)	<1.4		1.4	ng/L		02/16/26 20:53	02/17/26 16:35	1
Perfluorooctanoic acid (PFOA)	<1.4		1.4	ng/L		02/16/26 20:53	02/17/26 16:35	1
Perfluorononanoic acid (PFNA)	<1.4		1.4	ng/L		02/16/26 20:53	02/17/26 16:35	1
Perfluorodecanoic acid (PFDA)	<1.4		1.4	ng/L		02/16/26 20:53	02/17/26 16:35	1
Perfluoroundecanoic acid (PFUnA)	<1.4		1.4	ng/L		02/16/26 20:53	02/17/26 16:35	1
Perfluorododecanoic acid (PFDoA)	<1.4		1.4	ng/L		02/16/26 20:53	02/17/26 16:35	1
Perfluorotridecanoic acid (PFTriDA)	<1.4		1.4	ng/L		02/16/26 20:53	02/17/26 16:35	1
Perfluorotetradecanoic acid (PFTeDA)	<1.4		1.4	ng/L		02/16/26 20:53	02/17/26 16:35	1
Perfluorobutanesulfonic acid (PFBS)	<1.4		1.4	ng/L		02/16/26 20:53	02/17/26 16:35	1
Perfluoropentanesulfonic acid (PFPeS)	<1.4		1.4	ng/L		02/16/26 20:53	02/17/26 16:35	1
Perfluorohexanesulfonic acid (PFHxS)	<1.4		1.4	ng/L		02/16/26 20:53	02/17/26 16:35	1
Perfluoroheptanesulfonic acid (PFHpS)	<1.4		1.4	ng/L		02/16/26 20:53	02/17/26 16:35	1
Perfluorooctanesulfonic acid (PFOS)	<1.4		1.4	ng/L		02/16/26 20:53	02/17/26 16:35	1
Perfluorononanesulfonic acid (PFNS)	<1.4		1.4	ng/L		02/16/26 20:53	02/17/26 16:35	1
Perfluorodecanesulfonic acid (PFDS)	<1.4		1.4	ng/L		02/16/26 20:53	02/17/26 16:35	1
Perfluorododecanesulfonic acid (PFDoS)	<1.4		1.4	ng/L		02/16/26 20:53	02/17/26 16:35	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.9		2.9	ng/L		02/16/26 20:53	02/17/26 16:35	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.9		2.9	ng/L		02/16/26 20:53	02/17/26 16:35	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.9		2.9	ng/L		02/16/26 20:53	02/17/26 16:35	1
Perfluorooctanesulfonamide (PFOSA)	<1.4		1.4	ng/L		02/16/26 20:53	02/17/26 16:35	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	<1.4		1.4	ng/L		02/16/26 20:53	02/17/26 16:35	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	<1.4		1.4	ng/L		02/16/26 20:53	02/17/26 16:35	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<1.4		1.4	ng/L		02/16/26 20:53	02/17/26 16:35	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<1.4		1.4	ng/L		02/16/26 20:53	02/17/26 16:35	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	<7.2		7.2	ng/L		02/16/26 20:53	02/17/26 16:35	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	<7.2		7.2	ng/L		02/16/26 20:53	02/17/26 16:35	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.1		1.1	ng/L		02/16/26 20:53	02/17/26 16:35	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.4		1.4	ng/L		02/16/26 20:53	02/17/26 16:35	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<1.4		1.4	ng/L		02/16/26 20:53	02/17/26 16:35	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<1.4		1.4	ng/L		02/16/26 20:53	02/17/26 16:35	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<1.4		1.4	ng/L		02/16/26 20:53	02/17/26 16:35	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<1.4		1.4	ng/L		02/16/26 20:53	02/17/26 16:35	1

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Client Sample Results

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

Job ID: 380-197405-1
SDG: Site H1 PFAS 1633

Client Sample ID: BWS2253-H1-AQ

Lab Sample ID: 380-197405-1

Date Collected: 02/10/26 12:30

Matrix: Water

Date Received: 02/11/26 09:40

Method: DoD 6.0 QSM B-24 - PFAS for QSM 6.0, Table B-24 (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid	<1.4		1.4	ng/L		02/16/26 20:53	02/17/26 16:35	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEA)	<1.4		1.4	ng/L		02/16/26 20:53	02/17/26 16:35	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	<2.9	++	2.9	ng/L		02/16/26 20:53	02/17/26 16:35	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	<7.2		7.2	ng/L		02/16/26 20:53	02/17/26 16:35	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	<7.2		7.2	ng/L		02/16/26 20:53	02/17/26 16:35	1
Isotope Dilution	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C4 PFBA	88.9		5 - 130			02/16/26 20:53	02/17/26 16:35	1
13C5 PFPeA	107		40 - 130			02/16/26 20:53	02/17/26 16:35	1
13C5 PFHxA	110		40 - 130			02/16/26 20:53	02/17/26 16:35	1
13C4 PFHpA	99.2		40 - 130			02/16/26 20:53	02/17/26 16:35	1
13C8 PFOA	99.2		40 - 130			02/16/26 20:53	02/17/26 16:35	1
13C9 PFNA	94.3		40 - 130			02/16/26 20:53	02/17/26 16:35	1
13C6 PFDA	91.6		40 - 130			02/16/26 20:53	02/17/26 16:35	1
13C7 PFUnA	89.7		30 - 130			02/16/26 20:53	02/17/26 16:35	1
13C2 PFDoA	87.0		10 - 130			02/16/26 20:53	02/17/26 16:35	1
13C2 PFTeDA	65.5		10 - 130			02/16/26 20:53	02/17/26 16:35	1
13C3 PFBS	99.7		40 - 135			02/16/26 20:53	02/17/26 16:35	1
13C3 PFHxS	91.4		40 - 130			02/16/26 20:53	02/17/26 16:35	1
13C8 PFOS	91.9		40 - 130			02/16/26 20:53	02/17/26 16:35	1
13C8 PFOSA	104		40 - 130			02/16/26 20:53	02/17/26 16:35	1
d3-NMeFOSAA	66.5		40 - 170			02/16/26 20:53	02/17/26 16:35	1
d5-NEtFOSAA	92.5		25 - 135			02/16/26 20:53	02/17/26 16:35	1
13C2 4:2 FTS	73.8		40 - 200			02/16/26 20:53	02/17/26 16:35	1
13C2 6:2 FTS	75.8		40 - 200			02/16/26 20:53	02/17/26 16:35	1
13C2 8:2 FTS	70.5		40 - 300			02/16/26 20:53	02/17/26 16:35	1
13C3 HFPO-DA	99.8		40 - 130			02/16/26 20:53	02/17/26 16:35	1
d7-N-MeFOSE-M	91.2		10 - 130			02/16/26 20:53	02/17/26 16:35	1
d9-N-EtFOSE-M	88.3		10 - 130			02/16/26 20:53	02/17/26 16:35	1
d5-NEtPFOSA	79.9		10 - 130			02/16/26 20:53	02/17/26 16:35	1
d3-NMePFOSA	83.9		10 - 130			02/16/26 20:53	02/17/26 16:35	1

Action Limit Summary

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

Job ID: 380-197405-1
SDG: Site H1 PFAS 1633

Client Sample ID: BWS2253-H1-AQ

Lab Sample ID: 380-197405-1

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			
Perfluorooctanoic acid (PFOA)	<1.4		ng/L	4	1.4	QSM B-24	Total/NA
Perfluorononanoic acid (PFNA)	<1.4		ng/L	10	1.4	QSM B-24	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	<1.4		ng/L	10	1.4	QSM B-24	Total/NA
Perfluorooctanesulfonic acid (PFOS)	<1.4		ng/L	4	1.4	QSM B-24	Total/NA
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.1		ng/L	10	1.1	QSM B-24	Total/NA

Isotope Dilution Summary

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

Job ID: 380-197405-1
SDG: Site H1 PFAS 1633

Method: QSM B-24 - PFAS for QSM 6.0, Table B-24

Matrix: Water

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	PFBA (5-130)	PFPeA (40-130)	13C5PHA (40-130)	C4PFHA (40-130)	C8PFOA (40-130)	C9PFNA (40-130)	C6PFDA (40-130)	13C7PUA (30-130)
380-197405-1	BWS2253-H1-AQ	88.9	107	110	99.2	99.2	94.3	91.6	89.7
LCS 320-902120/3-A	Lab Control Sample	84.7	102	101	94.8	92.5	91.0	87.1	90.6
LCSD 320-902120/4-A	Lab Control Sample Dup	84.7	101	106	101	95.6	98.7	93.1	97.4
LLCS 320-902120/2-A	Lab Control Sample	82.4	100	106	96.1	101	90.8	90.8	97.4
MB 320-902120/1-A	Method Blank	89.3	103	112	101	105	98.1	98.1	99.3

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	PFDaA (10-130)	PFTDA (10-130)	C3PFBS (40-135)	C3PFHS (40-130)	C8PFOS (40-130)	PFOSA (40-130)	d3NMFOS (40-170)	d5NEFOS (25-135)
380-197405-1	BWS2253-H1-AQ	87.0	65.5	99.7	91.4	91.9	104	66.5	92.5
LCS 320-902120/3-A	Lab Control Sample	90.8	78.6	90.6	84.1	92.3	98.8	64.3	90.7
LCSD 320-902120/4-A	Lab Control Sample Dup	96.2	82.1	100	89.8	95.8	102	68.6	93.4
LLCS 320-902120/2-A	Lab Control Sample	95.2	81.3	96.1	91.3	96.8	104	67.0	95.9
MB 320-902120/1-A	Method Blank	101	87.7	104	94.1	103	109	75.2	98.1

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	M242FTS (40-200)	M262FTS (40-200)	M282FTS (40-300)	HFPODA (40-130)	NMFM (10-130)	NEFM (10-130)	d5NPFSA (10-130)	d3NMFSA (10-130)
380-197405-1	BWS2253-H1-AQ	73.8	75.8	70.5	99.8	91.2	88.3	79.9	83.9
LCS 320-902120/3-A	Lab Control Sample	78.4	73.3	64.7	91.2	100	98.0	84.0	81.1
LCSD 320-902120/4-A	Lab Control Sample Dup	83.7	80.2	73.9	99.8	97.9	97.0	86.3	88.5
LLCS 320-902120/2-A	Lab Control Sample	80.8	70.0	67.9	99.3	99.6	101	88.2	89.1
MB 320-902120/1-A	Method Blank	85.0	84.7	75.2	99.4	104	106	80.6	81.2

Surrogate Legend

PFBA = 13C4 PFBA
PFPeA = 13C5 PFPeA
13C5PHA = 13C5 PFHxA
C4PFHA = 13C4 PFHpA
C8PFOA = 13C8 PFOA
C9PFNA = 13C9 PFNA
C6PFDA = 13C6 PFDA
13C7PUA = 13C7 PFUnA
PFDaA = 13C2 PFDaA
PFTDA = 13C2 PFTeDA
C3PFBS = 13C3 PFBS
C3PFHS = 13C3 PFHxS
C8PFOS = 13C8 PFOS
PFOSA = 13C8 PFOSA
d3NMFOS = d3-NMeFOSAA
d5NEFOS = d5-NEtFOSAA
M242FTS = 13C2 4:2 FTS
M262FTS = 13C2 6:2 FTS
M282FTS = 13C2 8:2 FTS
HFPODA = 13C3 HFPO-DA
NMFM = d7-N-MeFOSE-M
NEFM = d9-N-EtFOSE-M
d5NPFSA = d5-NEtPFOSA
d3NMFSA = d3-NMePFOSA

QC Sample Results

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

Job ID: 380-197405-1
SDG: Site H1 PFAS 1633

Method: QSM B-24 - PFAS for QSM 6.0, Table B-24

Lab Sample ID: MB 320-902120/1-A

Matrix: Water

Analysis Batch: 902318

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 902120

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<4.0		4.0	ng/L		02/16/26 20:53	02/17/26 12:41	1
Perfluoropentanoic acid (PFPeA)	<2.0		2.0	ng/L		02/16/26 20:53	02/17/26 12:41	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		02/16/26 20:53	02/17/26 12:41	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		02/16/26 20:53	02/17/26 12:41	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		02/16/26 20:53	02/17/26 12:41	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		02/16/26 20:53	02/17/26 12:41	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		02/16/26 20:53	02/17/26 12:41	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		02/16/26 20:53	02/17/26 12:41	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		02/16/26 20:53	02/17/26 12:41	1
Perfluorotridecanoic acid (PFTriDA)	<2.0		2.0	ng/L		02/16/26 20:53	02/17/26 12:41	1
Perfluorotetradecanoic acid (PFTeDA)	<2.0		2.0	ng/L		02/16/26 20:53	02/17/26 12:41	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		02/16/26 20:53	02/17/26 12:41	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		02/16/26 20:53	02/17/26 12:41	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		02/16/26 20:53	02/17/26 12:41	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		02/16/26 20:53	02/17/26 12:41	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		02/16/26 20:53	02/17/26 12:41	1
Perfluorononanesulfonic acid (PFNS)	<2.0		2.0	ng/L		02/16/26 20:53	02/17/26 12:41	1
Perfluorodecanesulfonic acid (PFDS)	<2.0		2.0	ng/L		02/16/26 20:53	02/17/26 12:41	1
Perfluorododecanesulfonic acid (PFDoS)	<2.0		2.0	ng/L		02/16/26 20:53	02/17/26 12:41	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<4.0		4.0	ng/L		02/16/26 20:53	02/17/26 12:41	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<4.0		4.0	ng/L		02/16/26 20:53	02/17/26 12:41	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<4.0		4.0	ng/L		02/16/26 20:53	02/17/26 12:41	1
Perfluorooctanesulfonamide (PFOSA)	<2.0		2.0	ng/L		02/16/26 20:53	02/17/26 12:41	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	<2.0		2.0	ng/L		02/16/26 20:53	02/17/26 12:41	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	<2.0		2.0	ng/L		02/16/26 20:53	02/17/26 12:41	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		2.0	ng/L		02/16/26 20:53	02/17/26 12:41	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		2.0	ng/L		02/16/26 20:53	02/17/26 12:41	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	<10		10	ng/L		02/16/26 20:53	02/17/26 12:41	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	<10		10	ng/L		02/16/26 20:53	02/17/26 12:41	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.5		1.5	ng/L		02/16/26 20:53	02/17/26 12:41	1
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		02/16/26 20:53	02/17/26 12:41	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		02/16/26 20:53	02/17/26 12:41	1
Nonfluoro-3,6-dioxahexanoic acid (NFDHA)	<2.0		2.0	ng/L		02/16/26 20:53	02/17/26 12:41	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		02/16/26 20:53	02/17/26 12:41	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<2.0		2.0	ng/L		02/16/26 20:53	02/17/26 12:41	1

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QC Sample Results

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

Job ID: 380-197405-1
SDG: Site H1 PFAS 1633

Method: QSM B-24 - PFAS for QSM 6.0, Table B-24 (Continued)

Lab Sample ID: MB 320-902120/1-A

Matrix: Water

Analysis Batch: 902318

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 902120

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<2.0		2.0	ng/L		02/16/26 20:53	02/17/26 12:41	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<2.0		2.0	ng/L		02/16/26 20:53	02/17/26 12:41	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	<4.0		4.0	ng/L		02/16/26 20:53	02/17/26 12:41	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	<10		10	ng/L		02/16/26 20:53	02/17/26 12:41	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	<10		10	ng/L		02/16/26 20:53	02/17/26 12:41	1

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	89.3		5 - 130	02/16/26 20:53	02/17/26 12:41	1
13C5 PFPeA	103		40 - 130	02/16/26 20:53	02/17/26 12:41	1
13C5 PFHxA	112		40 - 130	02/16/26 20:53	02/17/26 12:41	1
13C4 PFHpA	101		40 - 130	02/16/26 20:53	02/17/26 12:41	1
13C8 PFOA	105		40 - 130	02/16/26 20:53	02/17/26 12:41	1
13C9 PFNA	98.1		40 - 130	02/16/26 20:53	02/17/26 12:41	1
13C6 PFDA	98.1		40 - 130	02/16/26 20:53	02/17/26 12:41	1
13C7 PFUnA	99.3		30 - 130	02/16/26 20:53	02/17/26 12:41	1
13C2 PFDoA	101		10 - 130	02/16/26 20:53	02/17/26 12:41	1
13C2 PFTeDA	87.7		10 - 130	02/16/26 20:53	02/17/26 12:41	1
13C3 PFBS	104		40 - 135	02/16/26 20:53	02/17/26 12:41	1
13C3 PFHxS	94.1		40 - 130	02/16/26 20:53	02/17/26 12:41	1
13C8 PFOS	103		40 - 130	02/16/26 20:53	02/17/26 12:41	1
13C8 PFOSA	109		40 - 130	02/16/26 20:53	02/17/26 12:41	1
d3-NMeFOSAA	75.2		40 - 170	02/16/26 20:53	02/17/26 12:41	1
d5-NEtFOSAA	98.1		25 - 135	02/16/26 20:53	02/17/26 12:41	1
13C2 4:2 FTS	85.0		40 - 200	02/16/26 20:53	02/17/26 12:41	1
13C2 6:2 FTS	84.7		40 - 200	02/16/26 20:53	02/17/26 12:41	1
13C2 8:2 FTS	75.2		40 - 300	02/16/26 20:53	02/17/26 12:41	1
13C3 HFPO-DA	99.4		40 - 130	02/16/26 20:53	02/17/26 12:41	1
d7-N-MeFOSE-M	104		10 - 130	02/16/26 20:53	02/17/26 12:41	1
d9-N-EtFOSE-M	106		10 - 130	02/16/26 20:53	02/17/26 12:41	1
d5-NEtPFOSA	80.6		10 - 130	02/16/26 20:53	02/17/26 12:41	1
d3-NMePFOSA	81.2		10 - 130	02/16/26 20:53	02/17/26 12:41	1

Lab Sample ID: LCS 320-902120/3-A

Matrix: Water

Analysis Batch: 902318

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 902120

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	80.0	85.6		ng/L		107	70 - 140
Perfluoropentanoic acid (PFPeA)	40.0	47.1		ng/L		118	65 - 135
Perfluorohexanoic acid (PFHxA)	40.0	42.5		ng/L		106	70 - 145
Perfluoroheptanoic acid (PFHpA)	40.0	42.0		ng/L		105	70 - 150
Perfluorooctanoic acid (PFOA)	40.0	42.8		ng/L		107	70 - 150
Perfluorononanoic acid (PFNA)	40.0	43.2		ng/L		108	70 - 150
Perfluorodecanoic acid (PFDA)	40.0	45.4		ng/L		113	70 - 140

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QC Sample Results

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

Job ID: 380-197405-1
SDG: Site H1 PFAS 1633

Method: QSM B-24 - PFAS for QSM 6.0, Table B-24 (Continued)

Lab Sample ID: LCS 320-902120/3-A

Matrix: Water

Analysis Batch: 902318

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 902120

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoroundecanoic acid (PFUnA)	40.0	52.0		ng/L		130	70 - 145
Perfluorododecanoic acid (PFDoA)	40.0	44.1		ng/L		110	70 - 140
Perfluorotridecanoic acid (PFTrDA)	40.0	44.8		ng/L		112	65 - 140
Perfluorotetradecanoic acid (PFTeDA)	40.0	44.5		ng/L		111	60 - 140
Perfluorobutanesulfonic acid (PFBS)	35.5	40.3		ng/L		113	60 - 145
Perfluoropentanesulfonic acid (PFPeS)	37.6	47.4		ng/L		126	65 - 140
Perfluorohexanesulfonic acid (PFHxS)	36.5	41.1		ng/L		113	65 - 145
Perfluoroheptanesulfonic acid (PFHpS)	38.2	40.9		ng/L		107	70 - 150
Perfluorooctanesulfonic acid (PFOS)	37.2	39.5		ng/L		106	55 - 150
Perfluorononanesulfonic acid (PFNS)	38.5	38.9		ng/L		101	65 - 145
Perfluorodecanesulfonic acid (PFDS)	38.6	36.7		ng/L		95	60 - 145
Perfluorododecanesulfonic acid (PFDoS)	38.8	35.0		ng/L		90	50 - 145
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	75.0	85.7		ng/L		114	70 - 145
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	76.2	83.1		ng/L		109	65 - 155
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	76.8	89.6		ng/L		117	60 - 150
Perfluorooctanesulfonamide (PFOSA)	40.0	42.0		ng/L		105	70 - 145
N-methylperfluorooctane sulfonamide (NMeFOSA)	40.0	46.1		ng/L		115	60 - 150
N-ethylperfluorooctane sulfonamide (NEtFOSA)	40.0	45.1		ng/L		113	65 - 145
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.0	47.0		ng/L		117	50 - 140
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	40.0	44.8		ng/L		112	70 - 145
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	200	224		ng/L		112	70 - 145
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	200	206		ng/L		103	70 - 135
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	30.0	34.6		ng/L		115	70 - 140
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	37.8	44.7		ng/L		118	65 - 145
Perfluoro-4-methoxybutanoic acid (PFMBA)	40.0	46.4		ng/L		116	60 - 150
Nonfluoro-3,6-dioxaheptanoic acid (NFDHA)	40.0	43.1		ng/L		108	50 - 150
Perfluoro-3-methoxypropanoic acid (PFMPA)	40.0	45.0		ng/L		113	55 - 140
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	37.4	41.7		ng/L		112	70 - 155

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QC Sample Results

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

Job ID: 380-197405-1
SDG: Site H1 PFAS 1633

Method: QSM B-24 - PFAS for QSM 6.0, Table B-24 (Continued)

Lab Sample ID: LCS 320-902120/3-A

Matrix: Water

Analysis Batch: 902318

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 902120

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	37.8	40.2		ng/L		107	55 - 160
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	35.7	36.0		ng/L		101	70 - 140
3-Perfluoropropylpropanoic acid (3:3 FTCA)	80.0	112	*+	ng/L		141	65 - 130
3-Perfluoropentylpropanoic acid (5:3 FTCA)	200	217		ng/L		108	70 - 135
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	200	208		ng/L		104	50 - 145

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C4 PFBA	84.7		5 - 130
13C5 PFPeA	102		40 - 130
13C5 PFHxA	101		40 - 130
13C4 PFHpA	94.8		40 - 130
13C8 PFOA	92.5		40 - 130
13C9 PFNA	91.0		40 - 130
13C6 PFDA	87.1		40 - 130
13C7 PFUnA	90.6		30 - 130
13C2 PFDoA	90.8		10 - 130
13C2 PFTeDA	78.6		10 - 130
13C3 PFBS	90.6		40 - 135
13C3 PFHxS	84.1		40 - 130
13C8 PFOS	92.3		40 - 130
13C8 PFOSA	98.8		40 - 130
d3-NMeFOSAA	64.3		40 - 170
d5-NEtFOSAA	90.7		25 - 135
13C2 4:2 FTS	78.4		40 - 200
13C2 6:2 FTS	73.3		40 - 200
13C2 8:2 FTS	64.7		40 - 300
13C3 HFPO-DA	91.2		40 - 130
d7-N-MeFOSE-M	100		10 - 130
d9-N-EtFOSE-M	98.0		10 - 130
d5-NEtPFOSA	84.0		10 - 130
d3-NMePFOSA	81.1		10 - 130

Lab Sample ID: LCSD 320-902120/4-A

Matrix: Water

Analysis Batch: 902318

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 902120

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorobutanoic acid (PFBA)	80.0	81.3		ng/L		102	70 - 140	5	30
Perfluoropentanoic acid (PFPeA)	40.0	44.4		ng/L		111	65 - 135	6	30
Perfluorohexanoic acid (PFHxA)	40.0	37.5		ng/L		94	70 - 145	13	30
Perfluoroheptanoic acid (PFHpA)	40.0	39.7		ng/L		99	70 - 150	6	30
Perfluorooctanoic acid (PFOA)	40.0	37.0		ng/L		92	70 - 150	15	30
Perfluorononanoic acid (PFNA)	40.0	38.5		ng/L		96	70 - 150	11	30
Perfluorodecanoic acid (PFDA)	40.0	43.6		ng/L		109	70 - 140	4	30

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QC Sample Results

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

Job ID: 380-197405-1
SDG: Site H1 PFAS 1633

Method: QSM B-24 - PFAS for QSM 6.0, Table B-24 (Continued)

Lab Sample ID: LCSD 320-902120/4-A

Matrix: Water

Analysis Batch: 902318

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 902120

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluoroundecanoic acid (PFUnA)	40.0	50.0		ng/L		125	70 - 145	4	30
Perfluorododecanoic acid (PFDoA)	40.0	40.2		ng/L		100	70 - 140	9	30
Perfluorotridecanoic acid (PFTrDA)	40.0	42.3		ng/L		106	65 - 140	6	30
Perfluorotetradecanoic acid (PFTeDA)	40.0	42.1		ng/L		105	60 - 140	6	30
Perfluorobutanesulfonic acid (PFBS)	35.5	37.8		ng/L		106	60 - 145	6	30
Perfluoropentanesulfonic acid (PFPeS)	37.6	43.8		ng/L		116	65 - 140	8	30
Perfluorohexanesulfonic acid (PFHxS)	36.5	39.1		ng/L		107	65 - 145	5	30
Perfluoroheptanesulfonic acid (PFHpS)	38.2	40.3		ng/L		106	70 - 150	1	30
Perfluorooctanesulfonic acid (PFOS)	37.2	37.5		ng/L		101	55 - 150	5	30
Perfluorononanesulfonic acid (PFNS)	38.5	36.0		ng/L		94	65 - 145	8	30
Perfluorodecanesulfonic acid (PFDS)	38.6	33.6		ng/L		87	60 - 145	9	30
Perfluorododecanesulfonic acid (PFDoS)	38.8	31.9		ng/L		82	50 - 145	9	30
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	75.0	74.0		ng/L		99	70 - 145	15	30
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	76.2	77.9		ng/L		102	65 - 155	6	30
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	76.8	78.9		ng/L		103	60 - 150	13	30
Perfluorooctanesulfonamide (PFOSA)	40.0	40.5		ng/L		101	70 - 145	4	30
N-methylperfluorooctane sulfonamide (NMeFOSA)	40.0	40.1		ng/L		100	60 - 150	14	30
N-ethylperfluorooctane sulfonamide (NEtFOSA)	40.0	40.4		ng/L		101	65 - 145	11	30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.0	43.8		ng/L		110	50 - 140	7	30
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	40.0	40.4		ng/L		101	70 - 145	10	30
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	200	214		ng/L		107	70 - 145	4	30
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	200	196		ng/L		98	70 - 135	5	30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	30.0	31.3		ng/L		104	70 - 140	10	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	37.8	39.7		ng/L		105	65 - 145	12	30
Perfluoro-4-methoxybutanoic acid (PFMBA)	40.0	43.3		ng/L		108	60 - 150	7	30
Nonfluoro-3,6-dioxaheptanoic acid (NFDHA)	40.0	34.7		ng/L		87	50 - 150	22	30
Perfluoro-3-methoxypropanoic acid (PFMPA)	40.0	45.4		ng/L		114	55 - 140	1	30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	37.4	38.3		ng/L		102	70 - 155	9	30

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QC Sample Results

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

Job ID: 380-197405-1
SDG: Site H1 PFAS 1633

Method: QSM B-24 - PFAS for QSM 6.0, Table B-24 (Continued)

Lab Sample ID: LCSD 320-902120/4-A

Matrix: Water

Analysis Batch: 902318

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 902120

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	37.8	37.7		ng/L		100	55 - 160	7	30
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEA)	35.7	35.3		ng/L		99	70 - 140	2	30
3-Perfluoropropylpropanoic acid (3:3 FTCA)	80.0	105	*+	ng/L		131	65 - 130	7	30
3-Perfluoropentylpropanoic acid (5:3 FTCA)	200	203		ng/L		101	70 - 135	7	30
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	200	196		ng/L		98	50 - 145	6	30

Isotope Dilution	LCSD %Recovery	LCSD Qualifier	Limits
13C4 PFBA	84.7		5 - 130
13C5 PFPeA	101		40 - 130
13C5 PFHxA	106		40 - 130
13C4 PFHpA	101		40 - 130
13C8 PFOA	95.6		40 - 130
13C9 PFNA	98.7		40 - 130
13C6 PFDA	93.1		40 - 130
13C7 PFUnA	97.4		30 - 130
13C2 PFDoA	96.2		10 - 130
13C2 PFTeDA	82.1		10 - 130
13C3 PFBS	100		40 - 135
13C3 PFHxS	89.8		40 - 130
13C8 PFOS	95.8		40 - 130
13C8 PFOSA	102		40 - 130
d3-NMeFOSAA	68.6		40 - 170
d5-NEtFOSAA	93.4		25 - 135
13C2 4:2 FTS	83.7		40 - 200
13C2 6:2 FTS	80.2		40 - 200
13C2 8:2 FTS	73.9		40 - 300
13C3 HFPO-DA	99.8		40 - 130
d7-N-MeFOSE-M	97.9		10 - 130
d9-N-EtFOSE-M	97.0		10 - 130
d5-NEtPFOSA	86.3		10 - 130
d3-NMePFOSA	88.5		10 - 130

Lab Sample ID: LLCS 320-902120/2-A

Matrix: Water

Analysis Batch: 902318

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 902120

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	8.00	8.48		ng/L		106	70 - 140
Perfluoropentanoic acid (PFPeA)	4.00	4.60		ng/L		115	65 - 135
Perfluorohexanoic acid (PFHxA)	4.00	4.45		ng/L		111	70 - 145
Perfluoroheptanoic acid (PFHpA)	4.00	4.30		ng/L		108	70 - 150
Perfluorooctanoic acid (PFOA)	4.00	4.53		ng/L		113	70 - 150
Perfluorononanoic acid (PFNA)	4.00	4.45		ng/L		111	70 - 150
Perfluorodecanoic acid (PFDA)	4.00	4.77		ng/L		119	70 - 140

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QC Sample Results

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

Job ID: 380-197405-1
SDG: Site H1 PFAS 1633

Method: QSM B-24 - PFAS for QSM 6.0, Table B-24 (Continued)

Lab Sample ID: LLCS 320-902120/2-A

Matrix: Water

Analysis Batch: 902318

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 902120

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoroundecanoic acid (PFUnA)	4.00	5.20		ng/L		130	70 - 145
Perfluorododecanoic acid (PFDoA)	4.00	4.40		ng/L		110	70 - 140
Perfluorotridecanoic acid (PFTrDA)	4.00	4.40		ng/L		110	65 - 140
Perfluorotetradecanoic acid (PFTeDA)	4.00	3.86		ng/L		97	60 - 140
Perfluorobutanesulfonic acid (PFBS)	3.55	4.19		ng/L		118	60 - 145
Perfluoropentanesulfonic acid (PFPeS)	3.76	4.38		ng/L		116	65 - 140
Perfluorohexanesulfonic acid (PFHxS)	3.65	4.22		ng/L		116	65 - 145
Perfluoroheptanesulfonic acid (PFHpS)	3.82	4.40		ng/L		115	70 - 150
Perfluorooctanesulfonic acid (PFOS)	3.72	3.84		ng/L		103	55 - 150
Perfluorononanesulfonic acid (PFNS)	3.85	3.63		ng/L		94	65 - 145
Perfluorodecanesulfonic acid (PFDS)	3.86	3.74		ng/L		97	60 - 145
Perfluorododecanesulfonic acid (PFDoS)	3.88	3.47		ng/L		89	50 - 145
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	7.50	7.25		ng/L		97	70 - 145
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	7.62	8.76		ng/L		115	65 - 155
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	7.68	8.60		ng/L		112	60 - 150
Perfluorooctanesulfonamide (PFOSA)	4.00	4.35		ng/L		109	70 - 145
N-methylperfluorooctane sulfonamide (NMeFOSA)	4.00	4.80		ng/L		120	60 - 150
N-ethylperfluorooctane sulfonamide (NEtFOSA)	4.00	4.78		ng/L		120	65 - 145
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	4.00	4.63		ng/L		116	50 - 140
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	4.00	4.05		ng/L		101	70 - 145
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	20.0	22.1		ng/L		110	70 - 145
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	20.0	20.2		ng/L		101	70 - 135
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	3.00	2.52		ng/L		84	70 - 140
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	3.78	4.33		ng/L		114	65 - 145
Perfluoro-4-methoxybutanoic acid (PFMBA)	4.00	4.57		ng/L		114	60 - 150
Nonfluoro-3,6-dioxaheptanoic acid (NFDHA)	4.00	4.41		ng/L		110	50 - 150
Perfluoro-3-methoxypropanoic acid (PFMPA)	4.00	4.31		ng/L		108	55 - 140
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	3.74	3.82		ng/L		102	70 - 155

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QC Sample Results

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

Job ID: 380-197405-1
SDG: Site H1 PFAS 1633

Method: QSM B-24 - PFAS for QSM 6.0, Table B-24 (Continued)

Lab Sample ID: LLCS 320-902120/2-A

Matrix: Water

Analysis Batch: 902318

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 902120

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	3.78	3.80		ng/L		101	55 - 160
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	3.57	3.61		ng/L		101	70 - 140
3-Perfluoropropylpropanoic acid (3:3 FTCA)	8.00	11.6	*+	ng/L		145	65 - 130
3-Perfluoropentylpropanoic acid (5:3 FTCA)	20.0	21.4		ng/L		107	70 - 135
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	20.0	20.3		ng/L		102	50 - 145

Isotope Dilution	LLCS %Recovery	LLCS Qualifier	Limits
13C4 PFBA	82.4		5 - 130
13C5 PFPeA	100		40 - 130
13C5 PFHxA	106		40 - 130
13C4 PFHpA	96.1		40 - 130
13C8 PFOA	101		40 - 130
13C9 PFNA	90.8		40 - 130
13C6 PFDA	90.8		40 - 130
13C7 PFUnA	97.4		30 - 130
13C2 PFDoA	95.2		10 - 130
13C2 PFTeDA	81.3		10 - 130
13C3 PFBS	96.1		40 - 135
13C3 PFHxS	91.3		40 - 130
13C8 PFOS	96.8		40 - 130
13C8 PFOSA	104		40 - 130
d3-NMeFOSAA	67.0		40 - 170
d5-NEtFOSAA	95.9		25 - 135
13C2 4:2 FTS	80.8		40 - 200
13C2 6:2 FTS	70.0		40 - 200
13C2 8:2 FTS	67.9		40 - 300
13C3 HFPO-DA	99.3		40 - 130
d7-N-MeFOSE-M	99.6		10 - 130
d9-N-EtFOSE-M	101		10 - 130
d5-NEtPFOSA	88.2		10 - 130
d3-NMePFOSA	89.1		10 - 130

QC Association Summary

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

Job ID: 380-197405-1
SDG: Site H1 PFAS 1633

LCMS

Prep Batch: 902120

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-197405-1	BWS2253-H1-AQ	Total/NA	Water	1633	
MB 320-902120/1-A	Method Blank	Total/NA	Water	1633	
LCS 320-902120/3-A	Lab Control Sample	Total/NA	Water	1633	
LCSD 320-902120/4-A	Lab Control Sample Dup	Total/NA	Water	1633	
LLCS 320-902120/2-A	Lab Control Sample	Total/NA	Water	1633	

Analysis Batch: 902318

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-197405-1	BWS2253-H1-AQ	Total/NA	Water	QSM B-24	902120
MB 320-902120/1-A	Method Blank	Total/NA	Water	QSM B-24	902120
LCS 320-902120/3-A	Lab Control Sample	Total/NA	Water	QSM B-24	902120
LCSD 320-902120/4-A	Lab Control Sample Dup	Total/NA	Water	QSM B-24	902120
LLCS 320-902120/2-A	Lab Control Sample	Total/NA	Water	QSM B-24	902120

Lab Chronicle

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

Job ID: 380-197405-1
SDG: Site H1 PFAS 1633

Client Sample ID: BWS2253-H1-AQ
Date Collected: 02/10/26 12:30
Date Received: 02/11/26 09:40

Lab Sample ID: 380-197405-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	1633			902120	JJN	EET SAC	02/16/26 20:53
Total/NA	Analysis	QSM B-24		1	902318	C1P	EET SAC	02/17/26 16:35

Laboratory References:

EET SAC = Eurofins Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Accreditation/Certification Summary

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

Job ID: 380-197405-1
SDG: Site H1 PFAS 1633

Laboratory: Eurofins Sacramento

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska	State	CA00044	06-30-26
Alaska (UST)	State	17-020	02-20-27
ANAB	Dept. of Defense ELAP	L2468	01-20-27
ANAB	Dept. of Energy	L2468.01	01-20-27
ANAB	ISO/IEC 17025	L2468.03	01-20-27
Arizona	State	AZ0708	08-11-26
Arkansas DEQ	State	88-0691	05-18-26
California	State	2897	01-31-28
Colorado	State	CA00044	08-31-26
Florida	NELAP	E87570	06-30-26
Georgia	State	4040	01-29-27
Illinois	NELAP	200060	03-31-26
Kansas	NELAP	E-10375	10-31-26
Louisiana	NELAP	01944	06-30-26
Louisiana (All)	NELAP	01944	06-30-26
Maine	State	CA00004	04-14-26
Massachusetts	State	M-CA044	06-30-26
Michigan	State	9947	01-29-26 *
Minnesota	NELAP	006-999-474	12-31-26
Nevada	State	CA00044	07-31-26
New Jersey	NELAP	CA005	06-30-26
New York	NELAP	11666	04-01-26
Ohio	State	41252	01-29-27
Oregon	NELAP	4040	01-29-27
Texas	NELAP	T104704399-23-17	05-31-26
US Fish & Wildlife	US Federal Programs	A22139	04-30-26
USDA	US Federal Programs	525-23-59-76739	02-28-26
Utah	NELAP	CA000442023-16	02-28-26
Virginia	NELAP	460278	03-14-26
Washington	State	C581	05-05-26
West Virginia (DW)	State	9930C	01-31-27
West Virginia DEP	State	422	03-28-26
Wisconsin	State	998204680	08-31-26
Wyoming	State Program	8TMS-L	01-28-19 *

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

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Method Summary

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

Job ID: 380-197405-1
SDG: Site H1 PFAS 1633

Method	Method Description	Protocol	Laboratory
QSM B-24	PFAS for QSM 6.0, Table B-24	DoD 6.0	EET SAC
1633	Solid-Phase Extraction (SPE)	EPA	EET SAC

Protocol References:

DoD 6.0 = Department of Defense Quality Systems Manual V6.0
EPA = US Environmental Protection Agency

Laboratory References:

EET SAC = Eurofins Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Sample Summary

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

Job ID: 380-197405-1
SDG: Site H1 PFAS 1633

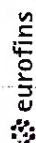
Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
380-197405-1	BWS2253-H1-AQ	Water	02/10/26 12:30	02/11/26 09:40	Hawaii

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16

Chain of Custody Record

[illegible]

380-197405 COC



eurofins
Environment Testing
America

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-197405-1
SDG Number: Site H1 PFAS 1633

Login Number: 197405

List Number: 1

Creator: Ngo, Theodore

List Source: Eurofins Pomona

Question	Answer	Comment
The coolers custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
Samples were received on ice.	True	
Cooler(s) Temperature is acceptable.	True	
Cooler(s) Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and is legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
CIO4 headspace requirement met (>50% for CA, >30% for other states).	N/A	
Samples do not require splitting or compositing.	True	
Container provided by EEA	True	

Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-197405-1
SDG Number: Site H1 PFAS 1633

Login Number: 197405

List Number: 2

Creator: Simmons, Jason C

List Source: Eurofins Sacramento

List Creation: 02/11/26 04:44 PM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	2189585
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.6c
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
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	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	