

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17

# ANALYTICAL REPORT

## PREPARED FOR

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

Generated 12/23/2024 11:14:54 AM

## JOB DESCRIPTION

RED-HILL  
Weekly PFAS  
RUSH Weekly Red Hill

## JOB NUMBER

380-126949-1

# Eurofins Eaton Analytical 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 Eaton Analytical, LLC Project Manager.

## Compliance Statement

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

## Authorization



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# Table of Contents

Cover Page . . . . .	1
Table of Contents . . . . .	3
Definitions/Glossary . . . . .	4
Case Narrative . . . . .	5
Detection Summary . . . . .	6
Client Sample Results . . . . .	7
Action Limit Summary . . . . .	26
Surrogate Summary . . . . .	31
Isotope Dilution Summary . . . . .	32
QC Sample Results . . . . .	34
QC Association Summary . . . . .	45
Lab Chronicle . . . . .	47
Certification Summary . . . . .	50
Method Summary . . . . .	51
Sample Summary . . . . .	52
Chain of Custody . . . . .	53
Receipt Checklists . . . . .	54

# Definitions/Glossary

Client: City & County of Honolulu  
Project/Site: RED-HILL

Job ID: 380-126949-1  
SDG: Weekly PFAS

## 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: RED-HILL

Job ID: 380-126949-1

**Job ID: 380-126949-1**

**Eurofins Eaton Analytical Pomona**

## Job Narrative 380-126949-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

### Receipt

The samples were received on 12/18/2024 9:55 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.6°C.

### PFAS

Methods EPA 537.1 and EPA 533 are two distinct methods for the analysis of PFAS in drinking water. The analyses are conducted on differing instrumentation, with calibrations, extraction solvents and sample preservatives being dissimilar among the two methods. Therefore it is probable and not unexpected to see the methods having slight variations in analytical results. HALAWA WELLS UNITS 1 & 2 P1 (380-126949-1)

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

# Detection Summary

Client: City & County of Honolulu  
Project/Site: RED-HILL

Job ID: 380-126949-1  
SDG: Weekly PFAS

**Client Sample ID: HALAWA WELLS UNITS 1 & 2 P1**  
**PWSID Number: HI0000331**

**Lab Sample ID: 380-126949-1**

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanesulfonic acid (PFHxS)	2.5		2.0	ng/L	1		533	Total/NA
Perfluorohexanoic acid (PFHxA)	2.0		2.0	ng/L	1		533	Total/NA
Perfluorooctanesulfonic acid (PFOS)	2.3		2.0	ng/L	1		533	Total/NA
Perfluoropentanoic acid (PFPeA)	2.3		2.0	ng/L	1		533	Total/NA
Perfluorooctanesulfonic acid (PFOS)	2.3		2.0	ng/L	1		537.1	Total/NA
Perfluorohexanoic acid (PFHxA)	2.5		2.0	ng/L	1		537.1	Total/NA
Perfluorooctanoic acid (PFOA)	2.1		2.0	ng/L	1		537.1	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	2.8		2.0	ng/L	1		537.1	Total/NA

**Client Sample ID: AIEA GULCH WELLS PUMP 1**  
**PWSID Number: HI0000331**

**Lab Sample ID: 380-126949-2**

No Detections.

**Client Sample ID: AIEA GULCH WELLS PUMP 2**  
**PWSID Number: HI0000331**

**Lab Sample ID: 380-126949-3**

No Detections.

**Client Sample ID: AIEA WELLS PUMPS 1&2 (260) P2**  
**PWSID Number: HI0000331**

**Lab Sample ID: 380-126949-4**

No Detections.

**Client Sample ID: KA'AMILO WELLS**

**Lab Sample ID: 380-126949-5**

No Detections.

**Client Sample ID: FB: HALAWA WELLS UNITS 1 & 2 P1**

**Lab Sample ID: 380-126949-6**

No Detections.

**Client Sample ID: FB: AIEA GULCH WELLS PUMP 1**

**Lab Sample ID: 380-126949-7**

No Detections.

**Client Sample ID: FB: AIEA GULCH WELLS PUMP 2**

**Lab Sample ID: 380-126949-8**

No Detections.

**Client Sample ID: FB: AIEA WELLS PUMPS 1&2 (260) P2**

**Lab Sample ID: 380-126949-9**

No Detections.

**Client Sample ID: FB: KA'AMILO WELLS**

**Lab Sample ID: 380-126949-10**

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: RED-HILL

Job ID: 380-126949-1  
SDG: Weekly PFAS

**Client Sample ID: HALAWA WELLS UNITS 1 & 2 P1**

**Lab Sample ID: 380-126949-1**

Date Collected: 12/16/24 09:46

Matrix: Drinking Water

Date Received: 12/18/24 09:55

PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 09:41	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 09:41	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 09:41	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 09:41	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 09:41	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 09:41	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 09:41	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 09:41	1
<b>Perfluorohexanesulfonic acid (PFHxS)</b>	<b>2.5</b>		2.0	ng/L		12/19/24 15:52	12/20/24 09:41	1
<b>Perfluorohexanoic acid (PFHxA)</b>	<b>2.0</b>		2.0	ng/L		12/19/24 15:52	12/20/24 09:41	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 09:41	1
<b>Perfluorooctanesulfonic acid (PFOS)</b>	<b>2.3</b>		2.0	ng/L		12/19/24 15:52	12/20/24 09:41	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 09:41	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 09:41	1
Perfluorobutanoic acid (PFBA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 09:41	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 09:41	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 09:41	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 09:41	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 09:41	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 09:41	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 09:41	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 09:41	1
<b>Perfluoropentanoic acid (PFPeA)</b>	<b>2.3</b>		2.0	ng/L		12/19/24 15:52	12/20/24 09:41	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 09:41	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 09:41	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	104		50 - 200	12/19/24 15:52	12/20/24 09:41	1
13C6 PFDA	103		50 - 200	12/19/24 15:52	12/20/24 09:41	1
13C5 PFHxA	104		50 - 200	12/19/24 15:52	12/20/24 09:41	1
13C4 PFHpA	106		50 - 200	12/19/24 15:52	12/20/24 09:41	1
13C8 PFOA	104		50 - 200	12/19/24 15:52	12/20/24 09:41	1
13C9 PFNA	105		50 - 200	12/19/24 15:52	12/20/24 09:41	1
13C7 PFUnA	106		50 - 200	12/19/24 15:52	12/20/24 09:41	1
13C2 PFDoA	104		50 - 200	12/19/24 15:52	12/20/24 09:41	1
13C4 PFBA	107		50 - 200	12/19/24 15:52	12/20/24 09:41	1
13C5 PFPeA	112		50 - 200	12/19/24 15:52	12/20/24 09:41	1
13C3 PFBS	114		50 - 200	12/19/24 15:52	12/20/24 09:41	1
13C3 PFHxS	114		50 - 200	12/19/24 15:52	12/20/24 09:41	1

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# Client Sample Results

Client: City & County of Honolulu  
Project/Site: RED-HILL

Job ID: 380-126949-1  
SDG: Weekly PFAS

**Client Sample ID: HALAWA WELLS UNITS 1 & 2 P1**

**Lab Sample ID: 380-126949-1**

Date Collected: 12/16/24 09:46

Matrix: Drinking Water

Date Received: 12/18/24 09:55

PWSID Number: HI0000331

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOS	117		50 - 200	12/19/24 15:52	12/20/24 09:41	1
13C2-4:2-FTS	133		50 - 200	12/19/24 15:52	12/20/24 09:41	1
13C2-6:2-FTS	123		50 - 200	12/19/24 15:52	12/20/24 09:41	1
13C2-8:2-FTS	108		50 - 200	12/19/24 15:52	12/20/24 09:41	1

**Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 17:58	1
<b>Perfluorooctanesulfonic acid (PFOS)</b>	<b>2.3</b>		2.0	ng/L		12/20/24 13:14	12/21/24 17:58	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 17:58	1
N-methylperfluorooctanesulfonamideacetic acid (NMeFOSAA)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 17:58	1
N-ethylperfluorooctanesulfonamideacetic acid (NEtFOSAA)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 17:58	1
<b>Perfluorohexanoic acid (PFHxA)</b>	<b>2.5</b>		2.0	ng/L		12/20/24 13:14	12/21/24 17:58	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 17:58	1
<b>Perfluorooctanoic acid (PFOA)</b>	<b>2.1</b>		2.0	ng/L		12/20/24 13:14	12/21/24 17:58	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 17:58	1
<b>Perfluorohexanesulfonic acid (PFHxS)</b>	<b>2.8</b>		2.0	ng/L		12/20/24 13:14	12/21/24 17:58	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 17:58	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 17:58	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 17:58	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 17:58	1
Perfluorotridecanoic acid (PFTrDA)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 17:58	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 17:58	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 17:58	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 17:58	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
d5-NEtFOSAA	105		70 - 130	12/20/24 13:14	12/21/24 17:58	1		
13C2 PFHxA	117		70 - 130	12/20/24 13:14	12/21/24 17:58	1		
13C2 PFDA	111		70 - 130	12/20/24 13:14	12/21/24 17:58	1		
13C3-GenX	114		70 - 130	12/20/24 13:14	12/21/24 17:58	1		

**Client Sample ID: AIEA GULCH WELLS PUMP 1**

**Lab Sample ID: 380-126949-2**

Date Collected: 12/16/24 10:12

Matrix: Drinking Water

Date Received: 12/18/24 09:55

PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 10:19	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 10:19	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 10:19	1

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# Client Sample Results

Client: City & County of Honolulu  
Project/Site: RED-HILL

Job ID: 380-126949-1  
SDG: Weekly PFAS

**Client Sample ID: AIEA GULCH WELLS PUMP 1**

**Lab Sample ID: 380-126949-2**

Date Collected: 12/16/24 10:12

Matrix: Drinking Water

Date Received: 12/18/24 09:55

PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 10:19	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 10:19	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 10:19	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 10:19	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 10:19	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 10:19	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 10:19	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 10:19	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 10:19	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 10:19	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 10:19	1
Perfluorobutanoic acid (PFBA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 10:19	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 10:19	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 10:19	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 10:19	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 10:19	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 10:19	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 10:19	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 10:19	1
Perfluoropentanoic acid (PFPeA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 10:19	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 10:19	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 10:19	1
<b>Isotope Dilution</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
13C3 HFPO-DA	102		50 - 200			12/19/24 15:52	12/20/24 10:19	1
13C6 PFDA	105		50 - 200			12/19/24 15:52	12/20/24 10:19	1
13C5 PFHxA	112		50 - 200			12/19/24 15:52	12/20/24 10:19	1
13C4 PFHpA	110		50 - 200			12/19/24 15:52	12/20/24 10:19	1
13C8 PFOA	110		50 - 200			12/19/24 15:52	12/20/24 10:19	1
13C9 PFNA	106		50 - 200			12/19/24 15:52	12/20/24 10:19	1
13C7 PFUnA	108		50 - 200			12/19/24 15:52	12/20/24 10:19	1
13C2 PFDoA	103		50 - 200			12/19/24 15:52	12/20/24 10:19	1
13C4 PFBA	115		50 - 200			12/19/24 15:52	12/20/24 10:19	1
13C5 PFPeA	116		50 - 200			12/19/24 15:52	12/20/24 10:19	1
13C3 PFBS	106		50 - 200			12/19/24 15:52	12/20/24 10:19	1
13C3 PFHxS	110		50 - 200			12/19/24 15:52	12/20/24 10:19	1
13C8 PFOS	112		50 - 200			12/19/24 15:52	12/20/24 10:19	1
13C2-4:2-FTS	129		50 - 200			12/19/24 15:52	12/20/24 10:19	1
13C2-6:2-FTS	131		50 - 200			12/19/24 15:52	12/20/24 10:19	1
13C2-8:2-FTS	108		50 - 200			12/19/24 15:52	12/20/24 10:19	1

# Client Sample Results

Client: City & County of Honolulu  
Project/Site: RED-HILL

Job ID: 380-126949-1  
SDG: Weekly PFAS

**Client Sample ID: AIEA GULCH WELLS PUMP 1**

**Lab Sample ID: 380-126949-2**

Date Collected: 12/16/24 10:12

Matrix: Drinking Water

Date Received: 12/18/24 09:55

PWSID Number: HI0000331

**Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 19:03	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 19:03	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 19:03	1
N-methylperfluorooctanesulfonamide acetic acid (NMeFOSAA)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 19:03	1
N-ethylperfluorooctanesulfonamide acetic acid (NEtFOSAA)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 19:03	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 19:03	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 19:03	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 19:03	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 19:03	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 19:03	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 19:03	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 19:03	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 19:03	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 19:03	1
Perfluorotridecanoic acid (PFTrDA)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 19:03	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 19:03	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 19:03	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 19:03	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
d5-NEtFOSAA	108		70 - 130			12/20/24 13:14	12/21/24 19:03	1
13C2 PFHxA	114		70 - 130			12/20/24 13:14	12/21/24 19:03	1
13C2 PFDA	108		70 - 130			12/20/24 13:14	12/21/24 19:03	1
13C3-GenX	107		70 - 130			12/20/24 13:14	12/21/24 19:03	1

**Client Sample ID: AIEA GULCH WELLS PUMP 2**

**Lab Sample ID: 380-126949-3**

Date Collected: 12/16/24 10:26

Matrix: Drinking Water

Date Received: 12/18/24 09:55

PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 10:29	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 10:29	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 10:29	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 10:29	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 10:29	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 10:29	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 10:29	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 10:29	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 10:29	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 10:29	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 10:29	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 10:29	1

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# Client Sample Results

Client: City & County of Honolulu  
Project/Site: RED-HILL

Job ID: 380-126949-1  
SDG: Weekly PFAS

**Client Sample ID: AIEA GULCH WELLS PUMP 2**

**Lab Sample ID: 380-126949-3**

Date Collected: 12/16/24 10:26

Matrix: Drinking Water

Date Received: 12/18/24 09:55

PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 10:29	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 10:29	1
Perfluorobutanoic acid (PFBA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 10:29	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 10:29	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 10:29	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 10:29	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 10:29	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 10:29	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 10:29	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 10:29	1
Perfluoropentanoic acid (PFPeA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 10:29	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 10:29	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 10:29	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	98		50 - 200	12/19/24 15:52	12/20/24 10:29	1
13C6 PFDA	104		50 - 200	12/19/24 15:52	12/20/24 10:29	1
13C5 PFHxA	97		50 - 200	12/19/24 15:52	12/20/24 10:29	1
13C4 PFHpA	104		50 - 200	12/19/24 15:52	12/20/24 10:29	1
13C8 PFOA	105		50 - 200	12/19/24 15:52	12/20/24 10:29	1
13C9 PFNA	103		50 - 200	12/19/24 15:52	12/20/24 10:29	1
13C7 PFUnA	109		50 - 200	12/19/24 15:52	12/20/24 10:29	1
13C2 PFDoA	105		50 - 200	12/19/24 15:52	12/20/24 10:29	1
13C4 PFBA	92		50 - 200	12/19/24 15:52	12/20/24 10:29	1
13C5 PFPeA	93		50 - 200	12/19/24 15:52	12/20/24 10:29	1
13C3 PFBS	107		50 - 200	12/19/24 15:52	12/20/24 10:29	1
13C3 PFHxS	112		50 - 200	12/19/24 15:52	12/20/24 10:29	1
13C8 PFOS	110		50 - 200	12/19/24 15:52	12/20/24 10:29	1
13C2-4:2-FTS	133		50 - 200	12/19/24 15:52	12/20/24 10:29	1
13C2-6:2-FTS	125		50 - 200	12/19/24 15:52	12/20/24 10:29	1
13C2-8:2-FTS	106		50 - 200	12/19/24 15:52	12/20/24 10:29	1

**Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 19:13	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 19:13	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 19:13	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 19:13	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 19:13	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 19:13	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 19:13	1

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# Client Sample Results

Client: City & County of Honolulu  
Project/Site: RED-HILL

Job ID: 380-126949-1  
SDG: Weekly PFAS

**Client Sample ID: AIEA GULCH WELLS PUMP 2**

**Lab Sample ID: 380-126949-3**

Date Collected: 12/16/24 10:26

Matrix: Drinking Water

Date Received: 12/18/24 09:55

PWSID Number: HI0000331

**Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 19:13	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 19:13	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 19:13	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 19:13	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 19:13	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 19:13	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 19:13	1
Perfluorotridecanoic acid (PFTTrDA)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 19:13	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 19:13	1
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 19:13	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 19:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	102		70 - 130			12/20/24 13:14	12/21/24 19:13	1
13C2 PFHxA	109		70 - 130			12/20/24 13:14	12/21/24 19:13	1
13C2 PFDA	104		70 - 130			12/20/24 13:14	12/21/24 19:13	1
13C3-GenX	104		70 - 130			12/20/24 13:14	12/21/24 19:13	1

**Client Sample ID: AIEA WELLS PUMPS 1&2 (260) P2**

**Lab Sample ID: 380-126949-4**

Date Collected: 12/16/24 10:53

Matrix: Drinking Water

Date Received: 12/18/24 09:55

PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 10:39	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 10:39	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 10:39	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 10:39	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 10:39	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 10:39	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 10:39	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 10:39	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 10:39	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 10:39	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 10:39	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 10:39	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 10:39	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 10:39	1
Perfluorobutanoic acid (PFBA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 10:39	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 10:39	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 10:39	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 10:39	1

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# Client Sample Results

Client: City & County of Honolulu  
Project/Site: RED-HILL

Job ID: 380-126949-1  
SDG: Weekly PFAS

**Client Sample ID: AIEA WELLS PUMPS 1&2 (260) P2**

**Lab Sample ID: 380-126949-4**

**Date Collected: 12/16/24 10:53**

**Matrix: Drinking Water**

**Date Received: 12/18/24 09:55**

**PWSID Number: HI0000331**

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 10:39	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 10:39	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 10:39	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 10:39	1
Perfluoropentanoic acid (PFPeA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 10:39	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 10:39	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 10:39	1
Isotope Dilution	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	96		50 - 200			12/19/24 15:52	12/20/24 10:39	1
13C6 PFDA	105		50 - 200			12/19/24 15:52	12/20/24 10:39	1
13C5 PFHxA	100		50 - 200			12/19/24 15:52	12/20/24 10:39	1
13C4 PFHpA	107		50 - 200			12/19/24 15:52	12/20/24 10:39	1
13C8 PFOA	103		50 - 200			12/19/24 15:52	12/20/24 10:39	1
13C9 PFNA	104		50 - 200			12/19/24 15:52	12/20/24 10:39	1
13C7 PFUnA	108		50 - 200			12/19/24 15:52	12/20/24 10:39	1
13C2 PFDoA	104		50 - 200			12/19/24 15:52	12/20/24 10:39	1
13C4 PFBA	97		50 - 200			12/19/24 15:52	12/20/24 10:39	1
13C5 PFPeA	102		50 - 200			12/19/24 15:52	12/20/24 10:39	1
13C3 PFBS	113		50 - 200			12/19/24 15:52	12/20/24 10:39	1
13C3 PFHxS	113		50 - 200			12/19/24 15:52	12/20/24 10:39	1
13C8 PFOS	111		50 - 200			12/19/24 15:52	12/20/24 10:39	1
13C2-4:2-FTS	139		50 - 200			12/19/24 15:52	12/20/24 10:39	1
13C2-6:2-FTS	131		50 - 200			12/19/24 15:52	12/20/24 10:39	1
13C2-8:2-FTS	110		50 - 200			12/19/24 15:52	12/20/24 10:39	1

**Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 19:24	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 19:24	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 19:24	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 19:24	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 19:24	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 19:24	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 19:24	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 19:24	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 19:24	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 19:24	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 19:24	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 19:24	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 19:24	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 19:24	1
Perfluorotridecanoic acid (PFTrDA)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 19:24	1

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# Client Sample Results

Client: City & County of Honolulu  
Project/Site: RED-HILL

Job ID: 380-126949-1  
SDG: Weekly PFAS

**Client Sample ID: AIEA WELLS PUMPS 1&2 (260) P2**

**Lab Sample ID: 380-126949-4**

Date Collected: 12/16/24 10:53

Matrix: Drinking Water

Date Received: 12/18/24 09:55

PWSID Number: HI0000331

**Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 19:24	1
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 19:24	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 19:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	108		70 - 130			12/20/24 13:14	12/21/24 19:24	1
13C2 PFHxA	106		70 - 130			12/20/24 13:14	12/21/24 19:24	1
13C2 PFDA	101		70 - 130			12/20/24 13:14	12/21/24 19:24	1
13C3-GenX	105		70 - 130			12/20/24 13:14	12/21/24 19:24	1

**Client Sample ID: KA'AMILO WELLS**

**Lab Sample ID: 380-126949-5**

Date Collected: 12/16/24 11:15

Matrix: Water

Date Received: 12/18/24 09:55

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 10:48	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 10:48	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 10:48	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 10:48	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 10:48	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 10:48	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 10:48	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 10:48	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 10:48	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 10:48	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 10:48	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 10:48	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 10:48	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 10:48	1
Perfluorobutanoic acid (PFBA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 10:48	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 10:48	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 10:48	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 10:48	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 10:48	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 10:48	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 10:48	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 10:48	1
Perfluoropentanoic acid (PFPeA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 10:48	1

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# Client Sample Results

Client: City & County of Honolulu  
Project/Site: RED-HILL

Job ID: 380-126949-1  
SDG: Weekly PFAS

**Client Sample ID: KA'AMILO WELLS**

**Lab Sample ID: 380-126949-5**

Date Collected: 12/16/24 11:15

Matrix: Water

Date Received: 12/18/24 09:55

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 10:48	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 10:48	1
Isotope Dilution	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	96		50 - 200			12/19/24 15:52	12/20/24 10:48	1
13C6 PFDA	105		50 - 200			12/19/24 15:52	12/20/24 10:48	1
13C5 PFHxA	99		50 - 200			12/19/24 15:52	12/20/24 10:48	1
13C4 PFHpA	105		50 - 200			12/19/24 15:52	12/20/24 10:48	1
13C8 PFOA	106		50 - 200			12/19/24 15:52	12/20/24 10:48	1
13C9 PFNA	107		50 - 200			12/19/24 15:52	12/20/24 10:48	1
13C7 PFUnA	107		50 - 200			12/19/24 15:52	12/20/24 10:48	1
13C2 PFDoA	105		50 - 200			12/19/24 15:52	12/20/24 10:48	1
13C4 PFBA	103		50 - 200			12/19/24 15:52	12/20/24 10:48	1
13C5 PFPeA	105		50 - 200			12/19/24 15:52	12/20/24 10:48	1
13C3 PFBS	104		50 - 200			12/19/24 15:52	12/20/24 10:48	1
13C3 PFHxS	110		50 - 200			12/19/24 15:52	12/20/24 10:48	1
13C8 PFOS	109		50 - 200			12/19/24 15:52	12/20/24 10:48	1
13C2-4:2-FTS	135		50 - 200			12/19/24 15:52	12/20/24 10:48	1
13C2-6:2-FTS	119		50 - 200			12/19/24 15:52	12/20/24 10:48	1
13C2-8:2-FTS	103		50 - 200			12/19/24 15:52	12/20/24 10:48	1

**Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 19:35	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 19:35	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 19:35	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 19:35	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 19:35	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 19:35	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 19:35	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 19:35	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 19:35	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 19:35	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 19:35	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 19:35	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 19:35	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 19:35	1
Perfluorotridecanoic acid (PFTrDA)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 19:35	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 19:35	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 19:35	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 19:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	106		70 - 130			12/20/24 13:14	12/21/24 19:35	1
13C2 PFHxA	109		70 - 130			12/20/24 13:14	12/21/24 19:35	1

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# Client Sample Results

Client: City & County of Honolulu  
Project/Site: RED-HILL

Job ID: 380-126949-1  
SDG: Weekly PFAS

**Client Sample ID: KA'AMILO WELLS**

**Lab Sample ID: 380-126949-5**

Date Collected: 12/16/24 11:15

Matrix: Water

Date Received: 12/18/24 09:55

**Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)**

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDA	105		70 - 130	12/20/24 13:14	12/21/24 19:35	1
13C3-GenX	110		70 - 130	12/20/24 13:14	12/21/24 19:35	1

**Client Sample ID: FB: HALAWA WELLS UNITS 1 & 2 P1**

**Lab Sample ID: 380-126949-6**

Date Collected: 12/16/24 09:46

Matrix: Water

Date Received: 12/18/24 09:55

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosafuoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 10:58	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 10:58	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 10:58	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 10:58	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 10:58	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 10:58	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 10:58	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 10:58	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 10:58	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 10:58	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 10:58	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 10:58	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 10:58	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 10:58	1
Perfluorobutanoic acid (PFBA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 10:58	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 10:58	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 10:58	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 10:58	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 10:58	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 10:58	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 10:58	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 10:58	1
Perfluoropentanoic acid (PFPeA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 10:58	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 10:58	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 10:58	1
<b>Isotope Dilution</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
13C3 HFPO-DA	103		50 - 200			12/19/24 15:52	12/20/24 10:58	1
13C6 PFDA	110		50 - 200			12/19/24 15:52	12/20/24 10:58	1
13C5 PFHxA	116		50 - 200			12/19/24 15:52	12/20/24 10:58	1
13C4 PFHpA	118		50 - 200			12/19/24 15:52	12/20/24 10:58	1

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# Client Sample Results

Client: City & County of Honolulu  
Project/Site: RED-HILL

Job ID: 380-126949-1  
SDG: Weekly PFAS

**Client Sample ID: FB: HALAWA WELLS UNITS 1 & 2 P1**

**Lab Sample ID: 380-126949-6**

Date Collected: 12/16/24 09:46

Matrix: Water

Date Received: 12/18/24 09:55

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOA	114		50 - 200	12/19/24 15:52	12/20/24 10:58	1
13C9 PFNA	110		50 - 200	12/19/24 15:52	12/20/24 10:58	1
13C7 PFUnA	115		50 - 200	12/19/24 15:52	12/20/24 10:58	1
13C2 PFDoA	111		50 - 200	12/19/24 15:52	12/20/24 10:58	1
13C4 PFBA	111		50 - 200	12/19/24 15:52	12/20/24 10:58	1
13C5 PFPeA	108		50 - 200	12/19/24 15:52	12/20/24 10:58	1
13C3 PFBS	106		50 - 200	12/19/24 15:52	12/20/24 10:58	1
13C3 PFHxS	106		50 - 200	12/19/24 15:52	12/20/24 10:58	1
13C8 PFOS	109		50 - 200	12/19/24 15:52	12/20/24 10:58	1
13C2-4:2-FTS	134		50 - 200	12/19/24 15:52	12/20/24 10:58	1
13C2-6:2-FTS	121		50 - 200	12/19/24 15:52	12/20/24 10:58	1
13C2-8:2-FTS	111		50 - 200	12/19/24 15:52	12/20/24 10:58	1

**Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 19:46	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 19:46	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 19:46	1
N-methylperfluorooctanesulfonamide acetic acid (NMeFOSAA)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 19:46	1
N-ethylperfluorooctanesulfonamide acetic acid (NEtFOSAA)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 19:46	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 19:46	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 19:46	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 19:46	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 19:46	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 19:46	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 19:46	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 19:46	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 19:46	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 19:46	1
Perfluorotridecanoic acid (PFTrDA)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 19:46	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 19:46	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 19:46	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 19:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	109		70 - 130	12/20/24 13:14	12/21/24 19:46	1
13C2 PFHxA	115		70 - 130	12/20/24 13:14	12/21/24 19:46	1
13C2 PFDA	104		70 - 130	12/20/24 13:14	12/21/24 19:46	1
13C3-GenX	107		70 - 130	12/20/24 13:14	12/21/24 19:46	1

# Client Sample Results

Client: City & County of Honolulu  
Project/Site: RED-HILL

Job ID: 380-126949-1  
SDG: Weekly PFAS

**Client Sample ID: FB: AIEA GULCH WELLS PUMP 1**

**Lab Sample ID: 380-126949-7**

**Date Collected: 12/16/24 10:12**

**Matrix: Water**

**Date Received: 12/18/24 09:55**

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 11:07	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 11:07	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 11:07	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 11:07	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 11:07	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 11:07	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 11:07	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 11:07	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 11:07	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 11:07	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 11:07	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 11:07	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 11:07	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 11:07	1
Perfluorobutanoic acid (PFBA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 11:07	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 11:07	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 11:07	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 11:07	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 11:07	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 11:07	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 11:07	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 11:07	1
Perfluoropentanoic acid (PFPeA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 11:07	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 11:07	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 11:07	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	97		50 - 200	12/19/24 15:52	12/20/24 11:07	1
13C6 PFDA	106		50 - 200	12/19/24 15:52	12/20/24 11:07	1
13C5 PFHxA	112		50 - 200	12/19/24 15:52	12/20/24 11:07	1
13C4 PFHpA	113		50 - 200	12/19/24 15:52	12/20/24 11:07	1
13C8 PFOA	109		50 - 200	12/19/24 15:52	12/20/24 11:07	1
13C9 PFNA	112		50 - 200	12/19/24 15:52	12/20/24 11:07	1
13C7 PFUnA	108		50 - 200	12/19/24 15:52	12/20/24 11:07	1
13C2 PFDoA	104		50 - 200	12/19/24 15:52	12/20/24 11:07	1
13C4 PFBA	111		50 - 200	12/19/24 15:52	12/20/24 11:07	1
13C5 PFPeA	108		50 - 200	12/19/24 15:52	12/20/24 11:07	1
13C3 PFBS	106		50 - 200	12/19/24 15:52	12/20/24 11:07	1
13C3 PFHxS	111		50 - 200	12/19/24 15:52	12/20/24 11:07	1
13C8 PFOS	111		50 - 200	12/19/24 15:52	12/20/24 11:07	1

Eurofins Eaton Analytical Pomona

# Client Sample Results

Client: City & County of Honolulu  
Project/Site: RED-HILL

Job ID: 380-126949-1  
SDG: Weekly PFAS

**Client Sample ID: FB: AIEA GULCH WELLS PUMP 1**

**Lab Sample ID: 380-126949-7**

Date Collected: 12/16/24 10:12

Matrix: Water

Date Received: 12/18/24 09:55

**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	140		50 - 200	12/19/24 15:52	12/20/24 11:07	1
13C2-6:2-FTS	131		50 - 200	12/19/24 15:52	12/20/24 11:07	1
13C2-8:2-FTS	111		50 - 200	12/19/24 15:52	12/20/24 11:07	1

**Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 19:57	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 19:57	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 19:57	1
N-methylperfluorooctanesulfonamideacetic acid (NMeFOSAA)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 19:57	1
N-ethylperfluorooctanesulfonamideacetic acid (NEtFOSAA)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 19:57	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 19:57	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 19:57	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 19:57	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 19:57	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 19:57	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 19:57	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 19:57	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 19:57	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 19:57	1
Perfluorotridecanoic acid (PFTrDA)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 19:57	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 19:57	1
11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 19:57	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 19:57	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
d5-NEtFOSAA	103		70 - 130			12/20/24 13:14	12/21/24 19:57	1
13C2 PFHxA	115		70 - 130			12/20/24 13:14	12/21/24 19:57	1
13C2 PFDA	107		70 - 130			12/20/24 13:14	12/21/24 19:57	1
13C3-GenX	111		70 - 130			12/20/24 13:14	12/21/24 19:57	1

**Client Sample ID: FB: AIEA GULCH WELLS PUMP 2**

**Lab Sample ID: 380-126949-8**

Date Collected: 12/16/24 10:26

Matrix: Water

Date Received: 12/18/24 09:55

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 11:17	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 11:17	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 11:17	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 11:17	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 11:17	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 11:17	1

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# Client Sample Results

Client: City & County of Honolulu  
Project/Site: RED-HILL

Job ID: 380-126949-1  
SDG: Weekly PFAS

**Client Sample ID: FB: AIEA GULCH WELLS PUMP 2**

**Lab Sample ID: 380-126949-8**

Date Collected: 12/16/24 10:26

Matrix: Water

Date Received: 12/18/24 09:55

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 11:17	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 11:17	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 11:17	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 11:17	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 11:17	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 11:17	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 11:17	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 11:17	1
Perfluorobutanoic acid (PFBA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 11:17	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 11:17	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 11:17	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 11:17	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 11:17	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 11:17	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 11:17	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 11:17	1
Perfluoropentanoic acid (PFPeA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 11:17	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 11:17	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 11:17	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	93		50 - 200	12/19/24 15:52	12/20/24 11:17	1
13C6 PFDA	109		50 - 200	12/19/24 15:52	12/20/24 11:17	1
13C5 PFHxA	111		50 - 200	12/19/24 15:52	12/20/24 11:17	1
13C4 PFHpA	113		50 - 200	12/19/24 15:52	12/20/24 11:17	1
13C8 PFOA	112		50 - 200	12/19/24 15:52	12/20/24 11:17	1
13C9 PFNA	112		50 - 200	12/19/24 15:52	12/20/24 11:17	1
13C7 PFUnA	111		50 - 200	12/19/24 15:52	12/20/24 11:17	1
13C2 PFDoA	108		50 - 200	12/19/24 15:52	12/20/24 11:17	1
13C4 PFBA	106		50 - 200	12/19/24 15:52	12/20/24 11:17	1
13C5 PFPeA	107		50 - 200	12/19/24 15:52	12/20/24 11:17	1
13C3 PFBS	105		50 - 200	12/19/24 15:52	12/20/24 11:17	1
13C3 PFHxS	105		50 - 200	12/19/24 15:52	12/20/24 11:17	1
13C8 PFOS	108		50 - 200	12/19/24 15:52	12/20/24 11:17	1
13C2-4:2-FTS	128		50 - 200	12/19/24 15:52	12/20/24 11:17	1
13C2-6:2-FTS	122		50 - 200	12/19/24 15:52	12/20/24 11:17	1
13C2-8:2-FTS	104		50 - 200	12/19/24 15:52	12/20/24 11:17	1

**Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 20:18	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 20:18	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 20:18	1

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# Client Sample Results

Client: City & County of Honolulu  
Project/Site: RED-HILL

Job ID: 380-126949-1  
SDG: Weekly PFAS

**Client Sample ID: FB: AIEA GULCH WELLS PUMP 2**

**Lab Sample ID: 380-126949-8**

Date Collected: 12/16/24 10:26

Matrix: Water

Date Received: 12/18/24 09:55

**Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 20:18	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 20:18	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 20:18	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 20:18	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 20:18	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 20:18	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 20:18	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 20:18	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 20:18	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 20:18	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 20:18	1
Perfluorotridecanoic acid (PFTrDA)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 20:18	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 20:18	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 20:18	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 20:18	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
d5-NEtFOSAA	112		70 - 130			12/20/24 13:14	12/21/24 20:18	1
13C2 PFHxA	114		70 - 130			12/20/24 13:14	12/21/24 20:18	1
13C2 PFDA	102		70 - 130			12/20/24 13:14	12/21/24 20:18	1
13C3-GenX	110		70 - 130			12/20/24 13:14	12/21/24 20:18	1

**Client Sample ID: FB: AIEA WELLS PUMPS 1&2 (260) P2**

**Lab Sample ID: 380-126949-9**

Date Collected: 12/16/24 10:53

Matrix: Water

Date Received: 12/18/24 09:55

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 11:26	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 11:26	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 11:26	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 11:26	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 11:26	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 11:26	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 11:26	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 11:26	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 11:26	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 11:26	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 11:26	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 11:26	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 11:26	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 11:26	1
Perfluorobutanoic acid (PFBA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 11:26	1

Eurofins Eaton Analytical Pomona

# Client Sample Results

Client: City & County of Honolulu  
Project/Site: RED-HILL

Job ID: 380-126949-1  
SDG: Weekly PFAS

**Client Sample ID: FB: AIEA WELLS PUMPS 1&2 (260) P2**

**Lab Sample ID: 380-126949-9**

**Date Collected: 12/16/24 10:53**

**Matrix: Water**

**Date Received: 12/18/24 09:55**

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 11:26	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 11:26	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 11:26	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 11:26	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 11:26	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 11:26	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 11:26	1
Perfluoropentanoic acid (PFPeA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 11:26	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 11:26	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 11:26	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	95		50 - 200	12/19/24 15:52	12/20/24 11:26	1
13C6 PFDA	110		50 - 200	12/19/24 15:52	12/20/24 11:26	1
13C5 PFHxA	112		50 - 200	12/19/24 15:52	12/20/24 11:26	1
13C4 PFHpA	112		50 - 200	12/19/24 15:52	12/20/24 11:26	1
13C8 PFOA	110		50 - 200	12/19/24 15:52	12/20/24 11:26	1
13C9 PFNA	112		50 - 200	12/19/24 15:52	12/20/24 11:26	1
13C7 PFUnA	113		50 - 200	12/19/24 15:52	12/20/24 11:26	1
13C2 PFDoA	109		50 - 200	12/19/24 15:52	12/20/24 11:26	1
13C4 PFBA	114		50 - 200	12/19/24 15:52	12/20/24 11:26	1
13C5 PFPeA	114		50 - 200	12/19/24 15:52	12/20/24 11:26	1
13C3 PFBS	106		50 - 200	12/19/24 15:52	12/20/24 11:26	1
13C3 PFHxS	109		50 - 200	12/19/24 15:52	12/20/24 11:26	1
13C8 PFOS	112		50 - 200	12/19/24 15:52	12/20/24 11:26	1
13C2-4:2-FTS	129		50 - 200	12/19/24 15:52	12/20/24 11:26	1
13C2-6:2-FTS	127		50 - 200	12/19/24 15:52	12/20/24 11:26	1
13C2-8:2-FTS	110		50 - 200	12/19/24 15:52	12/20/24 11:26	1

**Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 20:29	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 20:29	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 20:29	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 20:29	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 20:29	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 20:29	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 20:29	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 20:29	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 20:29	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 20:29	1

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# Client Sample Results

Client: City & County of Honolulu  
Project/Site: RED-HILL

Job ID: 380-126949-1  
SDG: Weekly PFAS

**Client Sample ID: FB: AIEA WELLS PUMPS 1&2 (260) P2**

**Lab Sample ID: 380-126949-9**

**Date Collected: 12/16/24 10:53**

**Matrix: Water**

**Date Received: 12/18/24 09:55**

**Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 20:29	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 20:29	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 20:29	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 20:29	1
Perfluorotridecanoic acid (PFTrDA)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 20:29	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 20:29	1
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 20:29	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 20:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	108		70 - 130			12/20/24 13:14	12/21/24 20:29	1
13C2 PFHxA	114		70 - 130			12/20/24 13:14	12/21/24 20:29	1
13C2 PFDA	106		70 - 130			12/20/24 13:14	12/21/24 20:29	1
13C3-GenX	114		70 - 130			12/20/24 13:14	12/21/24 20:29	1

**Client Sample ID: FB: KA'AMILO WELLS**

**Lab Sample ID: 380-126949-10**

**Date Collected: 12/16/24 11:15**

**Matrix: Water**

**Date Received: 12/18/24 09:55**

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 11:46	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 11:46	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 11:46	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 11:46	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 11:46	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 11:46	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 11:46	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 11:46	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 11:46	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 11:46	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 11:46	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 11:46	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 11:46	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 11:46	1
Perfluorobutanoic acid (PFBA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 11:46	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 11:46	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 11:46	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 11:46	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 11:46	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 11:46	1

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# Client Sample Results

Client: City & County of Honolulu  
Project/Site: RED-HILL

Job ID: 380-126949-1  
SDG: Weekly PFAS

**Client Sample ID: FB: KA'AMILO WELLS**

**Lab Sample ID: 380-126949-10**

**Date Collected: 12/16/24 11:15**

**Matrix: Water**

**Date Received: 12/18/24 09:55**

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 11:46	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 11:46	1
Perfluoropentanoic acid (PFPeA)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 11:46	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 11:46	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		12/19/24 15:52	12/20/24 11:46	1
Isotope Dilution	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	104		50 - 200			12/19/24 15:52	12/20/24 11:46	1
13C6 PFDA	105		50 - 200			12/19/24 15:52	12/20/24 11:46	1
13C5 PFHxA	108		50 - 200			12/19/24 15:52	12/20/24 11:46	1
13C4 PFHpA	112		50 - 200			12/19/24 15:52	12/20/24 11:46	1
13C8 PFOA	111		50 - 200			12/19/24 15:52	12/20/24 11:46	1
13C9 PFNA	109		50 - 200			12/19/24 15:52	12/20/24 11:46	1
13C7 PFUnA	110		50 - 200			12/19/24 15:52	12/20/24 11:46	1
13C2 PFDoA	105		50 - 200			12/19/24 15:52	12/20/24 11:46	1
13C4 PFBA	110		50 - 200			12/19/24 15:52	12/20/24 11:46	1
13C5 PFPeA	114		50 - 200			12/19/24 15:52	12/20/24 11:46	1
13C3 PFBS	110		50 - 200			12/19/24 15:52	12/20/24 11:46	1
13C3 PFHxS	108		50 - 200			12/19/24 15:52	12/20/24 11:46	1
13C8 PFOS	113		50 - 200			12/19/24 15:52	12/20/24 11:46	1
13C2-4:2-FTS	133		50 - 200			12/19/24 15:52	12/20/24 11:46	1
13C2-6:2-FTS	123		50 - 200			12/19/24 15:52	12/20/24 11:46	1
13C2-8:2-FTS	111		50 - 200			12/19/24 15:52	12/20/24 11:46	1

**Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 20:40	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 20:40	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 20:40	1
N-methylperfluorooctanesulfonamide acetic acid (NMeFOSAA)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 20:40	1
N-ethylperfluorooctanesulfonamide acetic acid (NEtFOSAA)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 20:40	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 20:40	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 20:40	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 20:40	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 20:40	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 20:40	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 20:40	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 20:40	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 20:40	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 20:40	1
Perfluorotridecanoic acid (PFTrDA)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 20:40	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 20:40	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 20:40	1



# Client Sample Results

Client: City & County of Honolulu  
 Project/Site: RED-HILL

Job ID: 380-126949-1  
 SDG: Weekly PFAS

**Client Sample ID: FB: KA'AMILO WELLS**

**Lab Sample ID: 380-126949-10**

Date Collected: 12/16/24 11:15

Matrix: Water

Date Received: 12/18/24 09:55

**Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		12/20/24 13:14	12/21/24 20:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	103		70 - 130			12/20/24 13:14	12/21/24 20:40	1
13C2 PFHxA	107		70 - 130			12/20/24 13:14	12/21/24 20:40	1
13C2 PFDA	104		70 - 130			12/20/24 13:14	12/21/24 20:40	1
13C3-GenX	105		70 - 130			12/20/24 13:14	12/21/24 20:40	1

# Action Limit Summary

Client: City & County of Honolulu  
Project/Site: RED-HILL

Job ID: 380-126949-1  
SDG: Weekly PFAS

**Client Sample ID: HALAWA WELLS UNITS 1 & 2 P1**

**Lab Sample ID: 380-126949-1**

**PWSID Number: HI0000331**

## Compliance Check

The results obtained from the analytical testing of this data set were checked against compliance limits received from the client. Any results at or above the compliance limits have been highlighted for your convenience.

Analyte	Result	Qualifier	Unit	EPAMCL	RL	Method	Prep Type
				Limit			
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		ng/L	10	2.0	533	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	2.5		ng/L	10	2.0	533	Total/NA
Perfluorononanoic acid (PFNA)	<2.0		ng/L	10	2.0	533	Total/NA
Perfluorooctanesulfonic acid (PFOS)	2.3		ng/L	4	2.0	533	Total/NA
Perfluorooctanoic acid (PFOA)	<2.0		ng/L	4	2.0	533	Total/NA
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		ng/L	10	2.0	537.1	Total/NA
Perfluorooctanesulfonic acid (PFOS)	2.3		ng/L	4	2.0	537.1	Total/NA
Perfluorooctanoic acid (PFOA)	2.1		ng/L	4	2.0	537.1	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	2.8		ng/L	10	2.0	537.1	Total/NA
Perfluorononanoic acid (PFNA)	<2.0		ng/L	10	2.0	537.1	Total/NA

**Client Sample ID: AIEA GULCH WELLS PUMP 1**

**Lab Sample ID: 380-126949-2**

**PWSID Number: HI0000331**

## Compliance Check

The results obtained from the analytical testing of this data set were checked against compliance limits received from the client. Any results at or above the compliance limits have been highlighted for your convenience.

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

**Client Sample ID: AIEA GULCH WELLS PUMP 2**

**Lab Sample ID: 380-126949-3**

**PWSID Number: HI0000331**

## Compliance Check

The results obtained from the analytical testing of this data set were checked against compliance limits received from the client. Any results at or above the compliance limits have been highlighted for your convenience.

Analyte	Result	Qualifier	Unit	EPAMCL	RL	Method	Prep Type
				Limit			
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		ng/L	10	2.0	533	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	<2.0		ng/L	10	2.0	533	Total/NA
Perfluorononanoic acid (PFNA)	<2.0		ng/L	10	2.0	533	Total/NA
Perfluorooctanesulfonic acid (PFOS)	<2.0		ng/L	4	2.0	533	Total/NA

Eurofins Eaton Analytical Pomona

# Action Limit Summary

Client: City & County of Honolulu  
Project/Site: RED-HILL

Job ID: 380-126949-1  
SDG: Weekly PFAS

**Client Sample ID: AIEA GULCH WELLS PUMP 2 (Continued)**

**Lab Sample ID: 380-126949-3**

**PWSID Number: HI0000331**

## 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)	<2.0		ng/L	4	2.0	533	Total/NA
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		ng/L	10	2.0	537.1	Total/NA
Perfluorooctanesulfonic acid (PFOS)	<2.0		ng/L	4	2.0	537.1	Total/NA
Perfluorooctanoic acid (PFOA)	<2.0		ng/L	4	2.0	537.1	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	<2.0		ng/L	10	2.0	537.1	Total/NA
Perfluorononanoic acid (PFNA)	<2.0		ng/L	10	2.0	537.1	Total/NA

**Client Sample ID: AIEA WELLS PUMPS 1&2 (260) P2**

**Lab Sample ID: 380-126949-4**

**PWSID Number: HI0000331**

## Compliance Check

The results obtained from the analytical testing of this data set were checked against compliance limits received from the client. Any results at or above the compliance limits have been highlighted for your convenience.

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

**Client Sample ID: KA'AMILO WELLS**

**Lab Sample ID: 380-126949-5**

## Compliance Check

The results obtained from the analytical testing of this data set were checked against compliance limits received from the client. Any results at or above the compliance limits have been highlighted for your convenience.

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

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# Action Limit Summary

Client: City & County of Honolulu  
Project/Site: RED-HILL

Job ID: 380-126949-1  
SDG: Weekly PFAS

## Client Sample ID: KA'AMILO WELLS (Continued)

Lab Sample ID: 380-126949-5

### Compliance Check

The results obtained from the analytical testing of this data set were checked against compliance limits received from the client. Any results at or above the compliance limits have been highlighted for your convenience.

Analyte	Result	Qualifier	Unit	EPAMCL Limit	RL	Method	Prep Type
Perfluorononanoic acid (PFNA)	<2.0		ng/L	10	2.0	537.1	Total/NA

## Client Sample ID: FB: HALAWA WELLS UNITS 1 & 2 P1

Lab Sample ID: 380-126949-6

### Compliance Check

The results obtained from the analytical testing of this data set were checked against compliance limits received from the client. Any results at or above the compliance limits have been highlighted for your convenience.

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

## Client Sample ID: FB: AIEA GULCH WELLS PUMP 1

Lab Sample ID: 380-126949-7

### Compliance Check

The results obtained from the analytical testing of this data set were checked against compliance limits received from the client. Any results at or above the compliance limits have been highlighted for your convenience.

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

# Action Limit Summary

Client: City & County of Honolulu  
Project/Site: RED-HILL

Job ID: 380-126949-1  
SDG: Weekly PFAS

**Client Sample ID: FB: AIEA GULCH WELLS PUMP 2**

**Lab Sample ID: 380-126949-8**

## Compliance Check

The results obtained from the analytical testing of this data set were checked against compliance limits received from the client. Any results at or above the compliance limits have been highlighted for your convenience.

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

**Client Sample ID: FB: AIEA WELLS PUMPS 1&2 (260) P2**

**Lab Sample ID: 380-126949-9**

## Compliance Check

The results obtained from the analytical testing of this data set were checked against compliance limits received from the client. Any results at or above the compliance limits have been highlighted for your convenience.

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

**Client Sample ID: FB: KA'AMILO WELLS**

**Lab Sample ID: 380-126949-10**

## Compliance Check

The results obtained from the analytical testing of this data set were checked against compliance limits received from the client. Any results at or above the compliance limits have been highlighted for your convenience.

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

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# Action Limit Summary

Client: City & County of Honolulu  
Project/Site: RED-HILL

Job ID: 380-126949-1  
SDG: Weekly PFAS

**Client Sample ID: FB: KA'AMILO WELLS (Continued)**

**Lab Sample ID: 380-126949-10**

## 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			
Perfluorooctanesulfonic acid (PFOS)	<2.0		ng/L	4	2.0	537.1	Total/NA
Perfluorooctanoic acid (PFOA)	<2.0		ng/L	4	2.0	537.1	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	<2.0		ng/L	10	2.0	537.1	Total/NA
Perfluorononanoic acid (PFNA)	<2.0		ng/L	10	2.0	537.1	Total/NA

# Surrogate Summary

Client: City & County of Honolulu  
 Project/Site: RED-HILL

Job ID: 380-126949-1  
 SDG: Weekly PFAS

## Method: 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Matrix: Drinking 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)
380-126949-1	HALAWA WELLS UNITS 1 & 2 F	105	117	111	114
380-126949-1 MS	HALAWA WELLS UNITS 1 & 2 P1	103	107	101	107
380-126949-1 MSD	HALAWA WELLS UNITS 1 & 2 P1	109	110	107	112
380-126949-2	AIEA GULCH WELLS PUMP 1	108	114	108	107
380-126949-3	AIEA GULCH WELLS PUMP 2	102	109	104	104
380-126949-4	AIEA WELLS PUMPS 1&2 (260) P2	108	106	101	105

**Surrogate Legend**

d5NEFOS = d5-NEtFOSAA  
 PFHxA = 13C2 PFHxA  
 PFDA = 13C2 PFDA  
 GenX = 13C3-GenX

## Method: 537.1 - Perfluorinated Alkyl Acids (LC/MS)

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)
380-126949-5	KA'AMILO WELLS	106	109	105	110
380-126949-6	FB: HALAWA WELLS UNITS 1 & 2 P1	109	115	104	107
380-126949-7	FB: AIEA GULCH WELLS PUMF 1	103	115	107	111
380-126949-8	FB: AIEA GULCH WELLS PUMF 2	112	114	102	110
380-126949-9	FB: AIEA WELLS PUMPS 1&2 (260) P2	108	114	106	114
380-126949-10	FB: KA'AMILO WELLS	103	107	104	105
LCS 380-124747/22-A	Lab Control Sample	105	111	103	110
MBL 380-124747/20-A	Method Blank	109	111	103	111
MRL 380-124747/21-A	Lab Control Sample	107	113	105	111

**Surrogate Legend**

d5NEFOS = d5-NEtFOSAA  
 PFHxA = 13C2 PFHxA  
 PFDA = 13C2 PFDA  
 GenX = 13C3-GenX

# Isotope Dilution Summary

Client: City & County of Honolulu  
Project/Site: RED-HILL

Job ID: 380-126949-1  
SDG: Weekly PFAS

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

Matrix: Drinking 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)
380-126949-1	HALAWA WELLS UNITS 1 & 2 F	104	103	104	106	104	105	106	104
380-126949-1 MS	HALAWA WELLS UNITS 1 & 2 P1	115	107	111	112	111	113	109	107
380-126949-1 MSD	HALAWA WELLS UNITS 1 & 2 P1	90	92	94	94	93	93	96	96
380-126949-2	AIEA GULCH WELLS PUMP 1	102	105	112	110	110	106	108	103
380-126949-3	AIEA GULCH WELLS PUMP 2	98	104	97	104	105	103	109	105
380-126949-4	AIEA WELLS PUMPS 1&2 (260) P2	96	105	100	107	103	104	108	104

		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 126949 1	HALAWA WELLS UNITS 1 & 2 F	107	112	114	114	117	133	123	108
380-126949-1 MS	HALAWA WELLS UNITS 1 & 2 P1	111	114	108	106	110	126	115	104
380-126949-1 MSD	HALAWA WELLS UNITS 1 & 2 P1	97	100	108	114	109	135	128	107
380-126949-2	AIEA GULCH WELLS PUMP 1	115	116	106	110	112	129	131	108
380-126949-3	AIEA GULCH WELLS PUMP 2	92	93	107	112	110	133	125	106
380-126949-4	AIEA WELLS PUMPS 1&2 (260) P2	97	102	113	113	111	139	131	110

### 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

## 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)
380-126949-5	KA'AMILO WELLS	96	105	99	105	106	107	107	105
380-126949-6	FB: HALAWA WELLS UNITS 1 & 2 P1	103	110	116	118	114	110	115	111
380-126949-7	FB: AIEA GULCH WELLS PUMF 1	97	106	112	113	109	112	108	104

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# Isotope Dilution Summary

Client: City & County of Honolulu  
 Project/Site: RED-HILL

Job ID: 380-126949-1  
 SDG: Weekly PFAS

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)							
		HFPODA (50-200)	C6PFDA (50-200)	13C5PHA (50-200)	C4PFHA (50-200)	C8PFOA (50-200)	C9PFNA (50-200)	13C7PUA (50-200)	PFDoA (50-200)
380-126949-8	FB: AIEA GULCH WELLS PUMF	93	109	111	113	112	112	111	108
380-126949-9	FB: AIEA WELLS PUMPS 1&2 (260) P2	95	110	112	112	110	112	113	109
380-126949-10	FB: KA'AMILO WELLS	104	105	108	112	111	109	110	105
LCS 380-124609/22-A	Lab Control Sample	98	105	109	104	108	108	102	104
MBL 380-124609/20-A	Method Blank	102	104	110	109	108	103	104	103
MRL 380 124609/21 A	Lab Control Sample	103	103	109	110	106	107	103	103

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)							
		PFBA (50-200)	PFPeA (50-200)	C3PFBS (50-200)	C3PFHS (50-200)	C8PFOS (50-200)	42FTS (50-200)	62FTS (50-200)	82FTS (50-200)
380-126949-5	KA'AMILO WELLS	103	105	104	110	109	135	119	103
380-126949-6	FB: HALAWA WELLS UNITS 1 & 2 P1	111	108	106	106	109	134	121	111
380-126949-7	FB: AIEA GULCH WELLS PUMF 1	111	108	106	111	111	140	131	111
380-126949-8	FB: AIEA GULCH WELLS PUMF 2	106	107	105	105	108	128	122	104
380-126949-9	FB: AIEA WELLS PUMPS 1&2 (260) P2	114	114	106	109	112	129	127	110
380-126949-10	FB: KA'AMILO WELLS	110	114	110	108	113	133	123	111
LCS 380-124609/22-A	Lab Control Sample	106	104	109	111	113	121	114	100
MBL 380-124609/20-A	Method Blank	105	105	109	111	112	125	122	107
MRL 380-124609/21-A	Lab Control Sample	104	110	105	107	107	119	120	105

### Surrogate Legend

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

# QC Sample Results

Client: City & County of Honolulu  
Project/Site: RED-HILL

Job ID: 380-126949-1  
SDG: Weekly PFAS

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

**Lab Sample ID: MBL 380-124609/20-A**  
**Matrix: Water**  
**Analysis Batch: 124758**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 124609**

Analyte	MBL Result	MBL Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
11-Chloroeicosfluoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS)	<0.30		2.0	ng/L		12/19/24 15:52	12/20/24 09:13	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid(9Cl-PF3ONS)	<0.30		2.0	ng/L		12/19/24 15:52	12/20/24 09:13	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.60		2.0	ng/L		12/19/24 15:52	12/20/24 09:13	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<1.0		2.0	ng/L		12/19/24 15:52	12/20/24 09:13	1
Perfluorobutanesulfonic acid (PFBS)	<0.37		2.0	ng/L		12/19/24 15:52	12/20/24 09:13	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	ng/L		12/19/24 15:52	12/20/24 09:13	1
Perfluorododecanoic acid (PFDoA)	<0.54		2.0	ng/L		12/19/24 15:52	12/20/24 09:13	1
Perfluoroheptanoic acid (PFHpA)	<0.39		2.0	ng/L		12/19/24 15:52	12/20/24 09:13	1
Perfluorohexanesulfonic acid (PFHxS)	<0.32		2.0	ng/L		12/19/24 15:52	12/20/24 09:13	1
Perfluorohexanoic acid (PFHxA)	<0.46		2.0	ng/L		12/19/24 15:52	12/20/24 09:13	1
Perfluorononanoic acid (PFNA)	<0.40		2.0	ng/L		12/19/24 15:52	12/20/24 09:13	1
Perfluorooctanesulfonic acid (PFOS)	<0.43		2.0	ng/L		12/19/24 15:52	12/20/24 09:13	1
Perfluorooctanoic acid (PFOA)	<0.38		2.0	ng/L		12/19/24 15:52	12/20/24 09:13	1
Perfluoroundecanoic acid (PFUnA)	<0.42		2.0	ng/L		12/19/24 15:52	12/20/24 09:13	1
Perfluorobutanoic acid (PFBA)	<0.69		2.0	ng/L		12/19/24 15:52	12/20/24 09:13	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<0.38		2.0	ng/L		12/19/24 15:52	12/20/24 09:13	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<0.37		2.0	ng/L		12/19/24 15:52	12/20/24 09:13	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<0.48		2.0	ng/L		12/19/24 15:52	12/20/24 09:13	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.47		2.0	ng/L		12/19/24 15:52	12/20/24 09:13	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<0.25		2.0	ng/L		12/19/24 15:52	12/20/24 09:13	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.46		2.0	ng/L		12/19/24 15:52	12/20/24 09:13	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.15		2.0	ng/L		12/19/24 15:52	12/20/24 09:13	1
Perfluoropentanoic acid (PFPeA)	<0.38		2.0	ng/L		12/19/24 15:52	12/20/24 09:13	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.36		2.0	ng/L		12/19/24 15:52	12/20/24 09:13	1
Perfluoropentanesulfonic acid (PFPeS)	<0.39		2.0	ng/L		12/19/24 15:52	12/20/24 09:13	1

Isotope Dilution	MBL %Recovery	MBL Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	102		50 - 200	12/19/24 15:52	12/20/24 09:13	1
13C6 PFDA	104		50 - 200	12/19/24 15:52	12/20/24 09:13	1
13C5 PFHxA	110		50 - 200	12/19/24 15:52	12/20/24 09:13	1
13C4 PFHpA	109		50 - 200	12/19/24 15:52	12/20/24 09:13	1
13C8 PFOA	108		50 - 200	12/19/24 15:52	12/20/24 09:13	1
13C9 PFNA	103		50 - 200	12/19/24 15:52	12/20/24 09:13	1
13C7 PFUnA	104		50 - 200	12/19/24 15:52	12/20/24 09:13	1
13C2 PFDoA	103		50 - 200	12/19/24 15:52	12/20/24 09:13	1
13C4 PFBA	105		50 - 200	12/19/24 15:52	12/20/24 09:13	1
13C5 PFPeA	105		50 - 200	12/19/24 15:52	12/20/24 09:13	1
13C3 PFBS	109		50 - 200	12/19/24 15:52	12/20/24 09:13	1
13C3 PFHxS	111		50 - 200	12/19/24 15:52	12/20/24 09:13	1

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# QC Sample Results

Client: City & County of Honolulu  
Project/Site: RED-HILL

Job ID: 380-126949-1  
SDG: Weekly PFAS

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

**Lab Sample ID: MBL 380-124609/20-A**  
**Matrix: Water**  
**Analysis Batch: 124758**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 124609**

<i>Isotope Dilution</i>	<i>MBL %Recovery</i>	<i>MBL Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C8 PFOS	112		50 - 200	12/19/24 15:52	12/20/24 09:13	1
13C2-4:2-FTS	125		50 - 200	12/19/24 15:52	12/20/24 09:13	1
13C2-6:2-FTS	122		50 - 200	12/19/24 15:52	12/20/24 09:13	1
13C2-8:2-FTS	107		50 - 200	12/19/24 15:52	12/20/24 09:13	1

**Lab Sample ID: LCS 380-124609/22-A**  
**Matrix: Water**  
**Analysis Batch: 124758**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 124609**

<i>Analyte</i>	<i>Spike Added</i>	<i>LCS Result</i>	<i>LCS Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec Limits</i>
11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	60.2	58.0		ng/L		96	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	60.2	56.0		ng/L		93	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	60.2	63.4		ng/L		105	70 - 130
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	60.2	58.5		ng/L		97	70 - 130
Perfluorobutanesulfonic acid (PFBS)	60.2	59.2		ng/L		98	70 - 130
Perfluorodecanoic acid (PFDA)	60.2	59.0		ng/L		98	70 - 130
Perfluorododecanoic acid (PFDoA)	60.2	56.4		ng/L		94	70 - 130
Perfluoroheptanoic acid (PFHpA)	60.2	62.9		ng/L		104	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	60.2	57.7		ng/L		96	70 - 130
Perfluorohexanoic acid (PFHxA)	60.2	58.8		ng/L		98	70 - 130
Perfluorononanoic acid (PFNA)	60.2	58.6		ng/L		97	70 - 130
Perfluorooctanesulfonic acid (PFOS)	60.2	59.1		ng/L		98	70 - 130
Perfluorooctanoic acid (PFOA)	60.2	57.9		ng/L		96	70 - 130
Perfluoroundecanoic acid (PFUnA)	60.2	60.4		ng/L		100	70 - 130
Perfluorobutanoic acid (PFBA)	60.2	56.7		ng/L		94	70 - 130
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	60.2	58.9		ng/L		98	70 - 130
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	60.2	60.0		ng/L		100	70 - 130
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	60.2	62.0		ng/L		103	70 - 130
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	60.2	61.5		ng/L		102	70 - 130
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	60.2	58.7		ng/L		97	70 - 130
Perfluoro-3-methoxypropanoic acid (PFMPA)	60.2	57.7		ng/L		96	70 - 130
Perfluoro-4-methoxybutanoic acid (PFMBA)	60.2	59.7		ng/L		99	70 - 130
Perfluoropentanoic acid (PFPeA)	60.2	61.3		ng/L		102	70 - 130
Perfluoroheptanesulfonic acid (PFHpS)	60.2	58.8		ng/L		98	70 - 130

Eurofins Eaton Analytical Pomona

# QC Sample Results

Client: City & County of Honolulu  
Project/Site: RED-HILL

Job ID: 380-126949-1  
SDG: Weekly PFAS

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

**Lab Sample ID: LCS 380-124609/22-A**  
**Matrix: Water**  
**Analysis Batch: 124758**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 124609**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoropentanesulfonic acid (PFPeS)	60.2	58.7		ng/L		97	70 - 130
<b>LCS LCS</b>							
<b>Isotope Dilution</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				
13C3 HFPO-DA	98		50 - 200				
13C6 PFDA	105		50 - 200				
13C5 PFHxA	109		50 - 200				
13C4 PFHpA	104		50 - 200				
13C8 PFOA	108		50 - 200				
13C9 PFNA	108		50 - 200				
13C7 PFUnA	102		50 - 200				
13C2 PFDoA	104		50 - 200				
13C4 PFBA	106		50 - 200				
13C5 PFPeA	104		50 - 200				
13C3 PFBS	109		50 - 200				
13C3 PFHxS	111		50 - 200				
13C8 PFOS	113		50 - 200				
13C2-4:2-FTS	121		50 - 200				
13C2-6:2-FTS	114		50 - 200				
13C2-8:2-FTS	100		50 - 200				

**Lab Sample ID: MRL 380-124609/21-A**  
**Matrix: Water**  
**Analysis Batch: 124758**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 124609**

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.01	2.02	J	ng/L		101	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	2.01	1.96	J	ng/L		98	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	2.01	1.96	J	ng/L		98	50 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	2.01	1.95	J	ng/L		97	50 - 150
Perfluorobutanesulfonic acid (PFBS)	2.01	2.05	J	ng/L		102	50 - 150
Perfluorodecanoic acid (PFDA)	2.01	2.02	J	ng/L		101	50 - 150
Perfluorododecanoic acid (PFDoA)	2.01	2.06	J	ng/L		103	50 - 150
Perfluoroheptanoic acid (PFHpA)	2.01	2.02	J	ng/L		101	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	2.01	2.03	J	ng/L		101	50 - 150
Perfluorohexanoic acid (PFHxA)	2.01	1.96	J	ng/L		98	50 - 150
Perfluorononanoic acid (PFNA)	2.01	2.02	J	ng/L		101	50 - 150
Perfluorooctanesulfonic acid (PFOS)	2.01	2.15	J	ng/L		107	50 - 150
Perfluorooctanoic acid (PFOA)	2.01	1.99	J	ng/L		99	50 - 150
Perfluoroundecanoic acid (PFUnA)	2.01	2.01	J	ng/L		100	50 - 150
Perfluorobutanoic acid (PFBA)	2.01	1.85	J	ng/L		92	50 - 150

Eurofins Eaton Analytical Pomona

# QC Sample Results

Client: City & County of Honolulu  
Project/Site: RED-HILL

Job ID: 380-126949-1  
SDG: Weekly PFAS

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

**Lab Sample ID: MRL 380-124609/21-A**  
**Matrix: Water**  
**Analysis Batch: 124758**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 124609**

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	2.01	2.05	J	ng/L		102	50 - 150
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	2.01	2.18	J	ng/L		108	50 - 150
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	2.01	2.15	J	ng/L		107	50 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	2.01	2.25	J	ng/L		112	50 - 150
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	2.01	2.00	J	ng/L		100	50 - 150
Perfluoro-3-methoxypropanoic acid (PFMPA)	2.01	2.05	J	ng/L		102	50 - 150
Perfluoro-4-methoxybutanoic acid (PFMBA)	2.01	1.96	J	ng/L		98	50 - 150
Perfluoropentanoic acid (PFPeA)	2.01	2.10	J	ng/L		105	50 - 150
Perfluoroheptanesulfonic acid (PFHpS)	2.01	2.06	J	ng/L		103	50 - 150
Perfluoropentanesulfonic acid (PFPeS)	2.01	2.01	J	ng/L		100	50 - 150

Isotope Dilution	MRL %Recovery	MRL Qualifier	MRL Limits
13C3 HFPO-DA	103		50 - 200
13C6 PFDA	103		50 - 200
13C5 PFHxA	109		50 - 200
13C4 PFHpA	110		50 - 200
13C8 PFOA	106		50 - 200
13C9 PFNA	107		50 - 200
13C7 PFUnA	103		50 - 200
13C2 PFDoA	103		50 - 200
13C4 PFBA	104		50 - 200
13C5 PFPeA	110		50 - 200
13C3 PFBS	105		50 - 200
13C3 PFHxS	107		50 - 200
13C8 PFOS	107		50 - 200
13C2-4:2-FTS	119		50 - 200
13C2-6:2-FTS	120		50 - 200
13C2-8:2-FTS	105		50 - 200

**Lab Sample ID: 380-126949-1 MS**  
**Matrix: Drinking Water**  
**Analysis Batch: 124758**

**Client Sample ID: HALAWA WELLS UNITS 1 & 2 P1**  
**Prep Type: Total/NA**  
**Prep Batch: 124609**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
11-Chloroeicosfluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		60.4	57.5		ng/L		95	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		60.4	56.6		ng/L		94	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		60.4	58.7		ng/L		97	70 - 130

# QC Sample Results

Client: City & County of Honolulu  
Project/Site: RED-HILL

Job ID: 380-126949-1  
SDG: Weekly PFAS

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

Lab Sample ID: 380-126949-1 MS

Client Sample ID: HALAWA WELLS UNITS 1 & 2 P1

Matrix: Drinking Water

Prep Type: Total/NA

Analysis Batch: 124758

Prep Batch: 124609

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Hexafluoropropylene Oxide	<2.0		60.4	55.5		ng/L		92	70 - 130
Dimer Acid (HFPO-DA/GenX)									
Perfluorobutanesulfonic acid (PFBS)	<2.0		60.4	61.2		ng/L		99	70 - 130
Perfluorodecanoic acid (PFDA)	<2.0		60.4	59.4		ng/L		98	70 - 130
Perfluorododecanoic acid (PFDoA)	<2.0		60.4	57.1		ng/L		95	70 - 130
Perfluoroheptanoic acid (PFHpA)	<2.0		60.4	60.3		ng/L		98	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	2.5		60.4	61.7		ng/L		98	70 - 130
Perfluorohexanoic acid (PFHxA)	2.0		60.4	60.3		ng/L		97	70 - 130
Perfluorononanoic acid (PFNA)	<2.0		60.4	59.8		ng/L		99	70 - 130
Perfluorooctanesulfonic acid (PFOS)	2.3		60.4	60.9		ng/L		97	70 - 130
Perfluorooctanoic acid (PFOA)	<2.0		60.4	58.8		ng/L		95	70 - 130
Perfluoroundecanoic acid (PFUnA)	<2.0		60.4	56.5		ng/L		94	70 - 130
Perfluorobutanoic acid (PFBA)	<2.0		60.4	59.3		ng/L		97	70 - 130
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		60.4	59.4		ng/L		98	70 - 130
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		60.4	60.2		ng/L		100	70 - 130
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		60.4	60.8		ng/L		101	70 - 130
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		60.4	67.7		ng/L		112	70 - 130
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<2.0		60.4	57.6		ng/L		95	70 - 130
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		60.4	58.5		ng/L		97	70 - 130
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		60.4	61.0		ng/L		101	70 - 130
Perfluoropentanoic acid (PFPeA)	2.3		60.4	61.7		ng/L		98	70 - 130
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		60.4	56.9		ng/L		94	70 - 130
Perfluoropentanesulfonic acid (PFPeS)	<2.0		60.4	63.4		ng/L		105	70 - 130

Isotope Dilution	MS MS		Limits
	%Recovery	Qualifier	
13C3 HFPO-DA	115		50 - 200
13C6 PFDA	107		50 - 200
13C5 PFHxA	111		50 - 200
13C4 PFHpA	112		50 - 200
13C8 PFOA	111		50 - 200
13C9 PFNA	113		50 - 200
13C7 PFUnA	109		50 - 200
13C2 PFDoA	107		50 - 200
13C4 PFBA	111		50 - 200
13C5 PFPeA	114		50 - 200
13C3 PFBS	108		50 - 200
13C3 PFHxS	106		50 - 200
13C8 PFOS	110		50 - 200

# QC Sample Results

Client: City & County of Honolulu  
Project/Site: RED-HILL

Job ID: 380-126949-1  
SDG: Weekly PFAS

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

**Lab Sample ID: 380-126949-1 MS**  
**Matrix: Drinking Water**  
**Analysis Batch: 124758**

**Client Sample ID: HALAWA WELLS UNITS 1 & 2 P1**  
**Prep Type: Total/NA**  
**Prep Batch: 124609**

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>MS MS Qualifier</i>	<i>Limits</i>
13C2-4:2-FTS	126		50 - 200
13C2-6:2-FTS	115		50 - 200
13C2-8:2-FTS	104		50 - 200

**Lab Sample ID: 380-126949-1 MSD**  
**Matrix: Drinking Water**  
**Analysis Batch: 124758**

**Client Sample ID: HALAWA WELLS UNITS 1 & 2 P1**  
**Prep Type: Total/NA**  
**Prep Batch: 124609**

<i>Analyte</i>	<i>Sample Result</i>	<i>Sample Qualifier</i>	<i>Spike Added</i>	<i>MSD Result</i>	<i>MSD Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec Limits</i>	<i>RPD</i>	<i>RPD Limit</i>
11-Chloroeicosfluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		60.4	58.7		ng/L		97	70 - 130	2	30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		60.4	59.9		ng/L		99	70 - 130	6	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		60.4	59.4		ng/L		98	70 - 130	1	30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		60.4	57.0		ng/L		94	70 - 130	3	30
Perfluorobutanesulfonic acid (PFBS)	<2.0		60.4	60.4		ng/L		98	70 - 130	1	30
Perfluorodecanoic acid (PFDA)	<2.0		60.4	61.6		ng/L		102	70 - 130	4	30
Perfluorododecanoic acid (PFDoA)	<2.0		60.4	57.1		ng/L		95	70 - 130	0	30
Perfluoroheptanoic acid (PFHpA)	<2.0		60.4	60.6		ng/L		99	70 - 130	0	30
Perfluorohexanesulfonic acid (PFHxS)	2.5		60.4	59.9		ng/L		95	70 - 130	3	30
Perfluorohexanoic acid (PFHxA)	2.0		60.4	62.0		ng/L		99	70 - 130	3	30
Perfluorononanoic acid (PFNA)	<2.0		60.4	60.4		ng/L		100	70 - 130	1	30
Perfluorooctanesulfonic acid (PFOS)	2.3		60.4	63.6		ng/L		102	70 - 130	4	30
Perfluorooctanoic acid (PFOA)	<2.0		60.4	58.2		ng/L		94	70 - 130	1	30
Perfluoroundecanoic acid (PFUnA)	<2.0		60.4	58.5		ng/L		97	70 - 130	3	30
Perfluorobutanoic acid (PFBA)	<2.0		60.4	60.5		ng/L		99	70 - 130	2	30
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		60.4	61.5		ng/L		102	70 - 130	4	30
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		60.4	62.4		ng/L		103	70 - 130	4	30
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		60.4	61.5		ng/L		102	70 - 130	1	30
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		60.4	58.5		ng/L		97	70 - 130	15	30
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<2.0		60.4	59.4		ng/L		98	70 - 130	3	30
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		60.4	57.6		ng/L		95	70 - 130	2	30
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		60.4	59.7		ng/L		99	70 - 130	2	30
Perfluoropentanoic acid (PFPeA)	2.3		60.4	59.5		ng/L		95	70 - 130	4	30
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		60.4	60.0		ng/L		99	70 - 130	5	30
Perfluoropentanesulfonic acid (PFPeS)	<2.0		60.4	58.1		ng/L		96	70 - 130	9	30

Eurofins Eaton Analytical Pomona



# QC Sample Results

Client: City & County of Honolulu  
Project/Site: RED-HILL

Job ID: 380-126949-1  
SDG: Weekly PFAS

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

Isotope Dilution	MSD MSD		Limits
	%Recovery	Qualifier	
13C3 HFPO-DA	90		50 - 200
13C6 PFDA	92		50 - 200
13C5 PFHxA	94		50 - 200
13C4 PFHpA	94		50 - 200
13C8 PFOA	93		50 - 200
13C9 PFNA	93		50 - 200
13C7 PFUnA	96		50 - 200
13C2 PFDoA	96		50 - 200
13C4 PFBA	97		50 - 200
13C5 PFPeA	100		50 - 200
13C3 PFBS	108		50 - 200
13C3 PFHxS	114		50 - 200
13C8 PFOS	109		50 - 200
13C2-4:2-FTS	135		50 - 200
13C2-6:2-FTS	128		50 - 200
13C2-8:2-FTS	107		50 - 200

## Method: 537.1 - Perfluorinated Alkyl Acids (LC/MS)

**Lab Sample ID: MBL 380-124747/20-A**  
**Matrix: Water**  
**Analysis Batch: 124931**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 124747**

Analyte	MBL MBL		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<1.0		2.0	ng/L		12/20/24 13:14	12/21/24 17:26	1
Perfluorooctanesulfonic acid (PFOS)	<0.43		2.0	ng/L		12/20/24 13:14	12/21/24 17:26	1
Perfluoroundecanoic acid (PFUnA)	<0.42		2.0	ng/L		12/20/24 13:14	12/21/24 17:26	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.58		2.0	ng/L		12/20/24 13:14	12/21/24 17:26	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.42		2.0	ng/L		12/20/24 13:14	12/21/24 17:26	1
Perfluorohexanoic acid (PFHxA)	<0.46		2.0	ng/L		12/20/24 13:14	12/21/24 17:26	1
Perfluorododecanoic acid (PFDoA)	<0.54		2.0	ng/L		12/20/24 13:14	12/21/24 17:26	1
Perfluorooctanoic acid (PFOA)	<0.38		2.0	ng/L		12/20/24 13:14	12/21/24 17:26	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	ng/L		12/20/24 13:14	12/21/24 17:26	1
Perfluorohexanesulfonic acid (PFHxS)	<0.32		2.0	ng/L		12/20/24 13:14	12/21/24 17:26	1
Perfluorobutanesulfonic acid (PFBS)	<0.37		2.0	ng/L		12/20/24 13:14	12/21/24 17:26	1
Perfluoroheptanoic acid (PFHpA)	<0.39		2.0	ng/L		12/20/24 13:14	12/21/24 17:26	1
Perfluorononanoic acid (PFNA)	<0.40		2.0	ng/L		12/20/24 13:14	12/21/24 17:26	1
Perfluorotetradecanoic acid (PFTA)	<0.54		2.0	ng/L		12/20/24 13:14	12/21/24 17:26	1
Perfluorotridecanoic acid (PFTrDA)	<0.36		2.0	ng/L		12/20/24 13:14	12/21/24 17:26	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<0.30		2.0	ng/L		12/20/24 13:14	12/21/24 17:26	1
11-Chloroeicosfluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<0.30		2.0	ng/L		12/20/24 13:14	12/21/24 17:26	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.60		2.0	ng/L		12/20/24 13:14	12/21/24 17:26	1
Surrogate	MBL MBL		Limits			Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier						
d5-NEtFOSAA	109		70 - 130			12/20/24 13:14	12/21/24 17:26	1
13C2 PFHxA	111		70 - 130			12/20/24 13:14	12/21/24 17:26	1
13C2 PFDA	103		70 - 130			12/20/24 13:14	12/21/24 17:26	1

Eurofins Eaton Analytical Pomona



# QC Sample Results

Client: City & County of Honolulu  
Project/Site: RED-HILL

Job ID: 380-126949-1  
SDG: Weekly PFAS

## Method: 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

**Lab Sample ID: MBL 380-124747/20-A**  
**Matrix: Water**  
**Analysis Batch: 124931**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 124747**

Surrogate	MBL MBL		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C3-GenX	111		70 - 130	12/20/24 13:14	12/21/24 17:26	1

**Lab Sample ID: LCS 380-124747/22-A**  
**Matrix: Water**  
**Analysis Batch: 124931**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 124747**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	25.1	28.9		ng/L		115	70 - 130
Perfluorooctanesulfonic acid (PFOS)	25.1	28.3		ng/L		113	70 - 130
Perfluoroundecanoic acid (PFUnA)	25.1	27.9		ng/L		111	70 - 130
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	25.1	27.2		ng/L		109	70 - 130
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	25.1	27.7		ng/L		111	70 - 130
Perfluorohexanoic acid (PFHxA)	25.1	29.5		ng/L		118	70 - 130
Perfluorododecanoic acid (PFDoA)	25.1	27.3		ng/L		109	70 - 130
Perfluorooctanoic acid (PFOA)	25.1	28.4		ng/L		114	70 - 130
Perfluorodecanoic acid (PFDA)	25.1	27.2		ng/L		109	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	25.1	28.6		ng/L		114	70 - 130
Perfluorobutanesulfonic acid (PFBS)	25.1	28.4		ng/L		113	70 - 130
Perfluoroheptanoic acid (PFHpA)	25.1	29.1		ng/L		116	70 - 130
Perfluorononanoic acid (PFNA)	25.1	28.2		ng/L		112	70 - 130
Perfluorotetradecanoic acid (PFTA)	25.1	26.8		ng/L		107	70 - 130
Perfluorotridecanoic acid (PFTrDA)	25.1	28.8		ng/L		115	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	25.1	28.7		ng/L		114	70 - 130
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	25.1	28.6		ng/L		114	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	25.1	30.0		ng/L		120	70 - 130

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
d5-NEtFOSAA	105		70 - 130
13C2 PFHxA	111		70 - 130
13C2 PFDA	103		70 - 130
13C3-GenX	110		70 - 130

# QC Sample Results

Client: City & County of Honolulu  
Project/Site: RED-HILL

Job ID: 380-126949-1  
SDG: Weekly PFAS

## Method: 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

**Lab Sample ID: MRL 380-124747/21-A**  
**Matrix: Water**  
**Analysis Batch: 124931**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 124747**

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	Limits
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	2.00	2.31	J	ng/L		115	50 - 150
Perfluorooctanesulfonic acid (PFOS)	2.00	2.18	J	ng/L		109	50 - 150
Perfluoroundecanoic acid (PFUnA)	2.00	2.13	J	ng/L		106	50 - 150
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.00	2.17	J	ng/L		108	50 - 150
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.00	2.37	J	ng/L		119	50 - 150
Perfluorohexanoic acid (PFHxA)	2.00	2.31	J	ng/L		115	50 - 150
Perfluorododecanoic acid (PFDoA)	2.00	2.13	J	ng/L		106	50 - 150
Perfluorooctanoic acid (PFOA)	2.00	2.30	J	ng/L		115	50 - 150
Perfluorodecanoic acid (PFDA)	2.00	2.21	J	ng/L		111	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	2.00	2.28	J	ng/L		114	50 - 150
Perfluorobutanesulfonic acid (PFBS)	2.00	2.18	J	ng/L		109	50 - 150
Perfluoroheptanoic acid (PFHpA)	2.00	2.38	J	ng/L		119	50 - 150
Perfluorononanoic acid (PFNA)	2.00	2.26	J	ng/L		113	50 - 150
Perfluorotetradecanoic acid (PFTA)	2.00	2.14	J	ng/L		107	50 - 150
Perfluorotridecanoic acid (PFTrDA)	2.00	2.26	J	ng/L		113	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	2.00	2.18	J	ng/L		109	50 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.00	2.24	J	ng/L		112	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	2.00	2.47	J	ng/L		123	50 - 150

Surrogate	MRL %Recovery	MRL Qualifier	Limits
d5-NEtFOSAA	107		70 - 130
13C2 PFHxA	113		70 - 130
13C2 PFDA	105		70 - 130
13C3-GenX	111		70 - 130

**Lab Sample ID: 380-126949-1 MS**  
**Matrix: Drinking Water**  
**Analysis Batch: 124931**

**Client Sample ID: HALAWA WELLS UNITS 1 & 2 P1**  
**Prep Type: Total/NA**  
**Prep Batch: 124747**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		50.1	54.7		ng/L		109	70 - 130
Perfluorooctanesulfonic acid (PFOS)	2.3		50.1	55.8		ng/L		107	70 - 130
Perfluoroundecanoic acid (PFUnA)	<2.0		50.1	51.6		ng/L		103	70 - 130
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		50.1	54.0		ng/L		108	70 - 130

Eurofins Eaton Analytical Pomona

# QC Sample Results

Client: City & County of Honolulu  
Project/Site: RED-HILL

Job ID: 380-126949-1  
SDG: Weekly PFAS

## Method: 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

**Lab Sample ID: 380-126949-1 MS**

**Matrix: Drinking Water**

**Analysis Batch: 124931**

**Client Sample ID: HALAWA WELLS UNITS 1 & 2 P1**

**Prep Type: Total/NA**

**Prep Batch: 124747**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		50.1	53.0		ng/L		106	70 - 130
Perfluorohexanoic acid (PFHxA)	2.5		50.1	57.9		ng/L		111	70 - 130
Perfluorododecanoic acid (PFDoA)	<2.0		50.1	51.4		ng/L		103	70 - 130
Perfluorooctanoic acid (PFOA)	2.1		50.1	55.6		ng/L		107	70 - 130
Perfluorodecanoic acid (PFDA)	<2.0		50.1	52.2		ng/L		104	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	2.8		50.1	57.3		ng/L		109	70 - 130
Perfluorobutanesulfonic acid (PFBS)	<2.0		50.1	55.3		ng/L		108	70 - 130
Perfluoroheptanoic acid (PFHpA)	<2.0		50.1	57.9		ng/L		113	70 - 130
Perfluorononanoic acid (PFNA)	<2.0		50.1	52.0		ng/L		104	70 - 130
Perfluorotetradecanoic acid (PFTA)	<2.0		50.1	51.5		ng/L		103	70 - 130
Perfluorotridecanoic acid (PFTTrDA)	<2.0		50.1	52.5		ng/L		105	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		50.1	54.4		ng/L		109	70 - 130
11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		50.1	54.9		ng/L		110	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		50.1	57.4		ng/L		115	70 - 130

Surrogate	MS %Recovery	MS Qualifier	MS Limits
d5-NEtFOSAA	103		70 - 130
13C2 PFHxA	107		70 - 130
13C2 PFDA	101		70 - 130
13C3-GenX	107		70 - 130

**Lab Sample ID: 380-126949-1 MSD**

**Matrix: Drinking Water**

**Analysis Batch: 124931**

**Client Sample ID: HALAWA WELLS UNITS 1 & 2 P1**

**Prep Type: Total/NA**

**Prep Batch: 124747**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		50.2	56.3		ng/L		112	70 - 130	3	30
Perfluorooctanesulfonic acid (PFOS)	2.3		50.2	59.4		ng/L		114	70 - 130	6	30
Perfluoroundecanoic acid (PFUnA)	<2.0		50.2	54.5		ng/L		109	70 - 130	5	30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		50.2	53.8		ng/L		107	70 - 130	0	30
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		50.2	56.4		ng/L		112	70 - 130	6	30
Perfluorohexanoic acid (PFHxA)	2.5		50.2	59.5		ng/L		114	70 - 130	3	30
Perfluorododecanoic acid (PFDoA)	<2.0		50.2	52.4		ng/L		104	70 - 130	2	30
Perfluorooctanoic acid (PFOA)	2.1		50.2	59.7		ng/L		115	70 - 130	7	30
Perfluorodecanoic acid (PFDA)	<2.0		50.2	53.6		ng/L		107	70 - 130	3	30

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# QC Association Summary

Client: City & County of Honolulu  
Project/Site: RED-HILL

Job ID: 380-126949-1  
SDG: Weekly PFAS

## LCMS

### Prep Batch: 124609

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-126949-1	HALAWA WELLS UNITS 1 & 2 P1	Total/NA	Drinking Water	533	
380-126949-2	AIEA GULCH WELLS PUMP 1	Total/NA	Drinking Water	533	
380-126949-3	AIEA GULCH WELLS PUMP 2	Total/NA	Drinking Water	533	
380-126949-4	AIEA WELLS PUMPS 1&2 (260) P2	Total/NA	Drinking Water	533	
380-126949-5	KA'AMILO WELLS	Total/NA	Water	533	
380-126949-6	FB: HALAWA WELLS UNITS 1 & 2 P1	Total/NA	Water	533	
380-126949-7	FB: AIEA GULCH WELLS PUMP 1	Total/NA	Water	533	
380-126949-8	FB: AIEA GULCH WELLS PUMP 2	Total/NA	Water	533	
380-126949-9	FB: AIEA WELLS PUMPS 1&2 (260) P2	Total/NA	Water	533	
380-126949-10	FB: KA'AMILO WELLS	Total/NA	Water	533	
MBL 380-124609/20-A	Method Blank	Total/NA	Water	533	
LCS 380-124609/22-A	Lab Control Sample	Total/NA	Water	533	
MRL 380-124609/21-A	Lab Control Sample	Total/NA	Water	533	
380-126949-1 MS	HALAWA WELLS UNITS 1 & 2 P1	Total/NA	Drinking Water	533	
380-126949-1 MSD	HALAWA WELLS UNITS 1 & 2 P1	Total/NA	Drinking Water	533	

### Prep Batch: 124747

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-126949-1	HALAWA WELLS UNITS 1 & 2 P1	Total/NA	Drinking Water	537.1 DW	
380-126949-2	AIEA GULCH WELLS PUMP 1	Total/NA	Drinking Water	537.1 DW	
380-126949-3	AIEA GULCH WELLS PUMP 2	Total/NA	Drinking Water	537.1 DW	
380-126949-4	AIEA WELLS PUMPS 1&2 (260) P2	Total/NA	Drinking Water	537.1 DW	
380-126949-5	KA'AMILO WELLS	Total/NA	Water	537.1 DW	
380-126949-6	FB: HALAWA WELLS UNITS 1 & 2 P1	Total/NA	Water	537.1 DW	
380-126949-7	FB: AIEA GULCH WELLS PUMP 1	Total/NA	Water	537.1 DW	
380-126949-8	FB: AIEA GULCH WELLS PUMP 2	Total/NA	Water	537.1 DW	
380-126949-9	FB: AIEA WELLS PUMPS 1&2 (260) P2	Total/NA	Water	537.1 DW	
380-126949-10	FB: KA'AMILO WELLS	Total/NA	Water	537.1 DW	
MBL 380-124747/20-A	Method Blank	Total/NA	Water	537.1 DW	
LCS 380-124747/22-A	Lab Control Sample	Total/NA	Water	537.1 DW	
MRL 380-124747/21-A	Lab Control Sample	Total/NA	Water	537.1 DW	
380-126949-1 MS	HALAWA WELLS UNITS 1 & 2 P1	Total/NA	Drinking Water	537.1 DW	
380-126949-1 MSD	HALAWA WELLS UNITS 1 & 2 P1	Total/NA	Drinking Water	537.1 DW	

### Analysis Batch: 124758

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-126949-1	HALAWA WELLS UNITS 1 & 2 P1	Total/NA	Drinking Water	533	124609
380-126949-2	AIEA GULCH WELLS PUMP 1	Total/NA	Drinking Water	533	124609
380-126949-3	AIEA GULCH WELLS PUMP 2	Total/NA	Drinking Water	533	124609
380-126949-4	AIEA WELLS PUMPS 1&2 (260) P2	Total/NA	Drinking Water	533	124609
380-126949-5	KA'AMILO WELLS	Total/NA	Water	533	124609
380-126949-6	FB: HALAWA WELLS UNITS 1 & 2 P1	Total/NA	Water	533	124609
380-126949-7	FB: AIEA GULCH WELLS PUMP 1	Total/NA	Water	533	124609
380-126949-8	FB: AIEA GULCH WELLS PUMP 2	Total/NA	Water	533	124609
380-126949-9	FB: AIEA WELLS PUMPS 1&2 (260) P2	Total/NA	Water	533	124609
380-126949-10	FB: KA'AMILO WELLS	Total/NA	Water	533	124609
MBL 380-124609/20-A	Method Blank	Total/NA	Water	533	124609
LCS 380-124609/22-A	Lab Control Sample	Total/NA	Water	533	124609
MRL 380-124609/21-A	Lab Control Sample	Total/NA	Water	533	124609
380-126949-1 MS	HALAWA WELLS UNITS 1 & 2 P1	Total/NA	Drinking Water	533	124609
380-126949-1 MSD	HALAWA WELLS UNITS 1 & 2 P1	Total/NA	Drinking Water	533	124609

# QC Association Summary

Client: City & County of Honolulu  
Project/Site: RED-HILL

Job ID: 380-126949-1  
SDG: Weekly PFAS

## LCMS

### Analysis Batch: 124931

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-126949-1	HALAWA WELLS UNITS 1 & 2 P1	Total/NA	Drinking Water	537.1	124747
380-126949-2	AIEA GULCH WELLS PUMP 1	Total/NA	Drinking Water	537.1	124747
380-126949-3	AIEA GULCH WELLS PUMP 2	Total/NA	Drinking Water	537.1	124747
380-126949-4	AIEA WELLS PUMPS 1&2 (260) P2	Total/NA	Drinking Water	537.1	124747
380-126949-5	KA'AMILO WELLS	Total/NA	Water	537.1	124747
380-126949-6	FB: HALAWA WELLS UNITS 1 & 2 P1	Total/NA	Water	537.1	124747
380-126949-7	FB: AIEA GULCH WELLS PUMP 1	Total/NA	Water	537.1	124747
380-126949-8	FB: AIEA GULCH WELLS PUMP 2	Total/NA	Water	537.1	124747
380-126949-9	FB: AIEA WELLS PUMPS 1&2 (260) P2	Total/NA	Water	537.1	124747
380-126949-10	FB: KA'AMILO WELLS	Total/NA	Water	537.1	124747
MBL 380-124747/20-A	Method Blank	Total/NA	Water	537.1	124747
LCS 380-124747/22-A	Lab Control Sample	Total/NA	Water	537.1	124747
MRL 380-124747/21-A	Lab Control Sample	Total/NA	Water	537.1	124747
380-126949-1 MS	HALAWA WELLS UNITS 1 & 2 P1	Total/NA	Drinking Water	537.1	124747
380-126949-1 MSD	HALAWA WELLS UNITS 1 & 2 P1	Total/NA	Drinking Water	537.1	124747

# Lab Chronicle

Client: City & County of Honolulu  
Project/Site: RED-HILL

Job ID: 380-126949-1  
SDG: Weekly PFAS

## Client Sample ID: HALAWA WELLS UNITS 1 & 2 P1

Lab Sample ID: 380-126949-1

Date Collected: 12/16/24 09:46

Matrix: Drinking Water

Date Received: 12/18/24 09:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			124609	HM3M	EA POM	12/19/24 15:52
Total/NA	Analysis	533		1	124758	SZ9R	EA POM	12/20/24 09:41
Total/NA	Prep	537.1 DW			124747	N8NE	EA POM	12/20/24 13:14
Total/NA	Analysis	537.1		1	124931	M7ML	EA POM	12/21/24 17:58

## Client Sample ID: AIEA GULCH WELLS PUMP 1

Lab Sample ID: 380-126949-2

Date Collected: 12/16/24 10:12

Matrix: Drinking Water

Date Received: 12/18/24 09:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			124609	HM3M	EA POM	12/19/24 15:52
Total/NA	Analysis	533		1	124758	SZ9R	EA POM	12/20/24 10:19
Total/NA	Prep	537.1 DW			124747	N8NE	EA POM	12/20/24 13:14
Total/NA	Analysis	537.1		1	124931	M7ML	EA POM	12/21/24 19:03

## Client Sample ID: AIEA GULCH WELLS PUMP 2

Lab Sample ID: 380-126949-3

Date Collected: 12/16/24 10:26

Matrix: Drinking Water

Date Received: 12/18/24 09:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			124609	HM3M	EA POM	12/19/24 15:52
Total/NA	Analysis	533		1	124758	SZ9R	EA POM	12/20/24 10:29
Total/NA	Prep	537.1 DW			124747	N8NE	EA POM	12/20/24 13:14
Total/NA	Analysis	537.1		1	124931	M7ML	EA POM	12/21/24 19:13

## Client Sample ID: AIEA WELLS PUMPS 1&2 (260) P2

Lab Sample ID: 380-126949-4

Date Collected: 12/16/24 10:53

Matrix: Drinking Water

Date Received: 12/18/24 09:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			124609	HM3M	EA POM	12/19/24 15:52
Total/NA	Analysis	533		1	124758	SZ9R	EA POM	12/20/24 10:39
Total/NA	Prep	537.1 DW			124747	N8NE	EA POM	12/20/24 13:14
Total/NA	Analysis	537.1		1	124931	M7ML	EA POM	12/21/24 19:24

## Client Sample ID: KA'AMILO WELLS

Lab Sample ID: 380-126949-5

Date Collected: 12/16/24 11:15

Matrix: Water

Date Received: 12/18/24 09:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			124609	HM3M	EA POM	12/19/24 15:52
Total/NA	Analysis	533		1	124758	SZ9R	EA POM	12/20/24 10:48
Total/NA	Prep	537.1 DW			124747	N8NE	EA POM	12/20/24 13:14
Total/NA	Analysis	537.1		1	124931	M7ML	EA POM	12/21/24 19:35



# Lab Chronicle

Client: City & County of Honolulu  
Project/Site: RED-HILL

Job ID: 380-126949-1  
SDG: Weekly PFAS

## Client Sample ID: FB: HALAWA WELLS UNITS 1 & 2 P1

Lab Sample ID: 380-126949-6

Date Collected: 12/16/24 09:46

Matrix: Water

Date Received: 12/18/24 09:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			124609	HM3M	EA POM	12/19/24 15:52
Total/NA	Analysis	533		1	124758	SZ9R	EA POM	12/20/24 10:58
Total/NA	Prep	537.1 DW			124747	N8NE	EA POM	12/20/24 13:14
Total/NA	Analysis	537.1		1	124931	M7ML	EA POM	12/21/24 19:46

## Client Sample ID: FB: AIEA GULCH WELLS PUMP 1

Lab Sample ID: 380-126949-7

Date Collected: 12/16/24 10:12

Matrix: Water

Date Received: 12/18/24 09:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			124609	HM3M	EA POM	12/19/24 15:52
Total/NA	Analysis	533		1	124758	SZ9R	EA POM	12/20/24 11:07
Total/NA	Prep	537.1 DW			124747	N8NE	EA POM	12/20/24 13:14
Total/NA	Analysis	537.1		1	124931	M7ML	EA POM	12/21/24 19:57

## Client Sample ID: FB: AIEA GULCH WELLS PUMP 2

Lab Sample ID: 380-126949-8

Date Collected: 12/16/24 10:26

Matrix: Water

Date Received: 12/18/24 09:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			124609	HM3M	EA POM	12/19/24 15:52
Total/NA	Analysis	533		1	124758	SZ9R	EA POM	12/20/24 11:17
Total/NA	Prep	537.1 DW			124747	N8NE	EA POM	12/20/24 13:14
Total/NA	Analysis	537.1		1	124931	M7ML	EA POM	12/21/24 20:18

## Client Sample ID: FB: AIEA WELLS PUMPS 1&2 (260) P2

Lab Sample ID: 380-126949-9

Date Collected: 12/16/24 10:53

Matrix: Water

Date Received: 12/18/24 09:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			124609	HM3M	EA POM	12/19/24 15:52
Total/NA	Analysis	533		1	124758	SZ9R	EA POM	12/20/24 11:26
Total/NA	Prep	537.1 DW			124747	N8NE	EA POM	12/20/24 13:14
Total/NA	Analysis	537.1		1	124931	M7ML	EA POM	12/21/24 20:29

## Client Sample ID: FB: KA'AMILO WELLS

Lab Sample ID: 380-126949-10

Date Collected: 12/16/24 11:15

Matrix: Water

Date Received: 12/18/24 09:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			124609	HM3M	EA POM	12/19/24 15:52
Total/NA	Analysis	533		1	124758	SZ9R	EA POM	12/20/24 11:46
Total/NA	Prep	537.1 DW			124747	N8NE	EA POM	12/20/24 13:14
Total/NA	Analysis	537.1		1	124931	M7ML	EA POM	12/21/24 20:40



# Lab Chronicle

Client: City & County of Honolulu  
Project/Site: RED-HILL

Job ID: 380-126949-1  
SDG: Weekly PFAS

**Laboratory References:**

EA POM = Eurofins Eaton Analytical Pomona, 941 Corporate Center Drive, Pomona, CA 91768-2642, TEL (626)386-1100

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# Accreditation/Certification Summary

Client: City & County of Honolulu  
Project/Site: RED-HILL

Job ID: 380-126949-1  
SDG: Weekly PFAS

## Laboratory: Eurofins Eaton Analytical Pomona

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Hawaii	State	CA00006	01-31-25

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# Method Summary

Client: City & County of Honolulu  
Project/Site: RED-HILL

Job ID: 380-126949-1  
SDG: Weekly PFAS

Method	Method Description	Protocol	Laboratory
533	Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water	EPA	EA POM
537.1	Perfluorinated Alkyl Acids (LC/MS)	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 Eaton Analytical Pomona, 941 Corporate Center Drive, Pomona, CA 91768-2642, TEL (626)386-1100



# Sample Summary

Client: City & County of Honolulu  
Project/Site: RED-HILL

Job ID: 380-126949-1  
SDG: Weekly PFAS

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	PWSID Number
380-126949-1	HALAWA WELLS UNITS 1 & 2 P1	Drinking Water	12/16/24 09:46	12/18/24 09:55	HI0000331
380-126949-2	AIEA GULCH WELLS PUMP 1	Drinking Water	12/16/24 10:12	12/18/24 09:55	HI0000331
380-126949-3	AIEA GULCH WELLS PUMP 2	Drinking Water	12/16/24 10:26	12/18/24 09:55	HI0000331
380-126949-4	AIEA WELLS PUMPS 1&2 (260) P2	Drinking Water	12/16/24 10:53	12/18/24 09:55	HI0000331
380-126949-5	KA'AMILO WELLS	Water	12/16/24 11:15	12/18/24 09:55	
380-126949-6	FB: HALAWA WELLS UNITS 1 & 2 P1	Water	12/16/24 09:46	12/18/24 09:55	
380-126949-7	FB: AIEA GULCH WELLS PUMP 1	Water	12/16/24 10:12	12/18/24 09:55	
380-126949-8	FB: AIEA GULCH WELLS PUMP 2	Water	12/16/24 10:26	12/18/24 09:55	
380-126949-9	FB: AIEA WELLS PUMPS 1&2 (260) P2	Water	12/16/24 10:53	12/18/24 09:55	
380-126949-10	FB: KA'AMILO WELLS	Water	12/16/24 11:15	12/18/24 09:55	

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# Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-126949-1

SDG Number: Weekly PFAS

**Login Number: 126949**

**List Source: Eurofins Eaton Analytical Pomona**

**List Number: 1**

**Creator: Gerfen, Chris**

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