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# ANALYTICAL REPORT

## PREPARED FOR

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

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## JOB DESCRIPTION

RED-HILL  
PFAS: Moanalua Wells  
RUSH Weekly Red Hill

## JOB NUMBER

380-202544-1

# Eurofins Pomona

## Job Notes

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

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

## Compliance Statement

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

## Authorization



Authorized for release by  
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# Definitions/Glossary

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

Job ID: 380-202544-1  
SDG: PFAS: Moanalua Wells

## 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: 380-202544-1

**Job ID: 380-202544-1**

**Eurofins Pomona**

## Job Narrative 380-202544-1

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

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

### Receipt

The samples were received on 3/11/2026 9:30 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.4°C.

### PFAS

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

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# Detection Summary

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

Job ID: 380-202544-1  
SDG: PFAS: Moanalua Wells

**Client Sample ID: MOANALUA WELLS (331-223-TP202)**  
**PWSID Number: HI0000331**

**Lab Sample ID: 380-202544-1**

No Detections.

**Client Sample ID: FB: MOANALUA WELLS (331-223-TP202)**  
**PWSID Number: HI0000331**

**Lab Sample ID: 380-202544-2**

No Detections.

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This Detection Summary does not include radiochemical test results.

# Client Sample Results

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

Job ID: 380-202544-1  
SDG: PFAS: Moanalua Wells

**Client Sample ID: MOANALUA WELLS (331-223-TP202)**

**Lab Sample ID: 380-202544-1**

Date Collected: 03/09/26 09:58

Matrix: Drinking Water

Date Received: 03/11/26 09:30

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		03/19/26 13:35	03/20/26 13:26	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		03/19/26 13:35	03/20/26 13:26	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		03/19/26 13:35	03/20/26 13:26	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		03/19/26 13:35	03/20/26 13:26	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		03/19/26 13:35	03/20/26 13:26	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		03/19/26 13:35	03/20/26 13:26	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		03/19/26 13:35	03/20/26 13:26	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		03/19/26 13:35	03/20/26 13:26	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		03/19/26 13:35	03/20/26 13:26	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		03/19/26 13:35	03/20/26 13:26	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		03/19/26 13:35	03/20/26 13:26	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		03/19/26 13:35	03/20/26 13:26	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		03/19/26 13:35	03/20/26 13:26	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		03/19/26 13:35	03/20/26 13:26	1
Perfluorobutanoic acid (PFBA)	<2.0		2.0	ng/L		03/19/26 13:35	03/20/26 13:26	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0	ng/L		03/19/26 13:35	03/20/26 13:26	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0	ng/L		03/19/26 13:35	03/20/26 13:26	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0	ng/L		03/19/26 13:35	03/20/26 13:26	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		2.0	ng/L		03/19/26 13:35	03/20/26 13:26	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<2.0		2.0	ng/L		03/19/26 13:35	03/20/26 13:26	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		03/19/26 13:35	03/20/26 13:26	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		03/19/26 13:35	03/20/26 13:26	1
Perfluoropentanoic acid (PFPeA)	<2.0		2.0	ng/L		03/19/26 13:35	03/20/26 13:26	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		03/19/26 13:35	03/20/26 13:26	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		03/19/26 13:35	03/20/26 13:26	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	94		50 - 200	03/19/26 13:35	03/20/26 13:26	1
13C6 PFDA	101		50 - 200	03/19/26 13:35	03/20/26 13:26	1
13C5 PFHxA	105		50 - 200	03/19/26 13:35	03/20/26 13:26	1
13C4 PFHpA	103		50 - 200	03/19/26 13:35	03/20/26 13:26	1
13C8 PFOA	104		50 - 200	03/19/26 13:35	03/20/26 13:26	1
13C9 PFNA	109		50 - 200	03/19/26 13:35	03/20/26 13:26	1
13C7 PFUnA	102		50 - 200	03/19/26 13:35	03/20/26 13:26	1
13C2 PFDoA	102		50 - 200	03/19/26 13:35	03/20/26 13:26	1
13C4 PFBA	108		50 - 200	03/19/26 13:35	03/20/26 13:26	1
13C5 PFPeA	110		50 - 200	03/19/26 13:35	03/20/26 13:26	1
13C3 PFBS	104		50 - 200	03/19/26 13:35	03/20/26 13:26	1
13C3 PFHxS	106		50 - 200	03/19/26 13:35	03/20/26 13:26	1
13C8 PFOS	106		50 - 200	03/19/26 13:35	03/20/26 13:26	1

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# Client Sample Results

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

Job ID: 380-202544-1  
SDG: PFAS: Moanalua Wells

**Client Sample ID: MOANALUA WELLS (331-223-TP202)**

**Lab Sample ID: 380-202544-1**

Date Collected: 03/09/26 09:58

Matrix: Drinking Water

Date Received: 03/11/26 09:30

PWSID Number: HI0000331

**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	123		50 - 200	03/19/26 13:35	03/20/26 13:26	1
13C2-6:2-FTS	109		50 - 200	03/19/26 13:35	03/20/26 13:26	1
13C2-8:2-FTS	101		50 - 200	03/19/26 13:35	03/20/26 13:26	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		03/13/26 13:55	03/15/26 14:40	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		03/13/26 13:55	03/15/26 14:40	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		03/13/26 13:55	03/15/26 14:40	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		2.0	ng/L		03/13/26 13:55	03/15/26 14:40	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		2.0	ng/L		03/13/26 13:55	03/15/26 14:40	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		03/13/26 13:55	03/15/26 14:40	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		03/13/26 13:55	03/15/26 14:40	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		03/13/26 13:55	03/15/26 14:40	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		03/13/26 13:55	03/15/26 14:40	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		03/13/26 13:55	03/15/26 14:40	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		03/13/26 13:55	03/15/26 14:40	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		03/13/26 13:55	03/15/26 14:40	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		03/13/26 13:55	03/15/26 14:40	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0	ng/L		03/13/26 13:55	03/15/26 14:40	1
Perfluorotridecanoic acid (PFTTrDA)	<2.0		2.0	ng/L		03/13/26 13:55	03/15/26 14:40	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		03/13/26 13:55	03/15/26 14:40	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		03/13/26 13:55	03/15/26 14:40	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		03/13/26 13:55	03/15/26 14:40	1

  

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	102		70 - 130	03/13/26 13:55	03/15/26 14:40	1
13C2 PFHxA	106		70 - 130	03/13/26 13:55	03/15/26 14:40	1
13C2 PFDA	109		70 - 130	03/13/26 13:55	03/15/26 14:40	1
13C3-GenX	103		70 - 130	03/13/26 13:55	03/15/26 14:40	1

**Client Sample ID: FB: MOANALUA WELLS (331-223-TP202)**

**Lab Sample ID: 380-202544-2**

Date Collected: 03/09/26 09:58

Matrix: Water

Date Received: 03/11/26 09:30

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		03/19/26 13:35	03/20/26 13:55	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		2.0	ng/L		03/19/26 13:35	03/20/26 13:55	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		03/19/26 13:35	03/20/26 13:55	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		03/19/26 13:35	03/20/26 13:55	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		03/19/26 13:35	03/20/26 13:55	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		03/19/26 13:35	03/20/26 13:55	1

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# Client Sample Results

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

Job ID: 380-202544-1  
SDG: PFAS: Moanalua Wells

**Client Sample ID: FB: MOANALUA WELLS (331-223-TP202)**

**Lab Sample ID: 380-202544-2**

Date Collected: 03/09/26 09:58

Matrix: Water

Date Received: 03/11/26 09:30

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
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		03/19/26 13:35	03/20/26 13:55	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		03/19/26 13:35	03/20/26 13:55	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		03/19/26 13:35	03/20/26 13:55	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		03/19/26 13:35	03/20/26 13:55	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		03/19/26 13:35	03/20/26 13:55	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		03/19/26 13:35	03/20/26 13:55	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		03/19/26 13:35	03/20/26 13:55	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		03/19/26 13:35	03/20/26 13:55	1
Perfluorobutanoic acid (PFBA)	<2.0		2.0	ng/L		03/19/26 13:35	03/20/26 13:55	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0	ng/L		03/19/26 13:35	03/20/26 13:55	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0	ng/L		03/19/26 13:35	03/20/26 13:55	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0	ng/L		03/19/26 13:35	03/20/26 13:55	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		2.0	ng/L		03/19/26 13:35	03/20/26 13:55	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<2.0		2.0	ng/L		03/19/26 13:35	03/20/26 13:55	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0	ng/L		03/19/26 13:35	03/20/26 13:55	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		2.0	ng/L		03/19/26 13:35	03/20/26 13:55	1
Perfluoropentanoic acid (PFPeA)	<2.0		2.0	ng/L		03/19/26 13:35	03/20/26 13:55	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0	ng/L		03/19/26 13:35	03/20/26 13:55	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		03/19/26 13:35	03/20/26 13:55	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	102		50 - 200	03/19/26 13:35	03/20/26 13:55	1
13C6 PFDA	105		50 - 200	03/19/26 13:35	03/20/26 13:55	1
13C5 PFHxA	109		50 - 200	03/19/26 13:35	03/20/26 13:55	1
13C4 PFHpA	112		50 - 200	03/19/26 13:35	03/20/26 13:55	1
13C8 PFOA	111		50 - 200	03/19/26 13:35	03/20/26 13:55	1
13C9 PFNA	114		50 - 200	03/19/26 13:35	03/20/26 13:55	1
13C7 PFUnA	102		50 - 200	03/19/26 13:35	03/20/26 13:55	1
13C2 PFDoA	105		50 - 200	03/19/26 13:35	03/20/26 13:55	1
13C4 PFBA	111		50 - 200	03/19/26 13:35	03/20/26 13:55	1
13C5 PFPeA	112		50 - 200	03/19/26 13:35	03/20/26 13:55	1
13C3 PFBS	110		50 - 200	03/19/26 13:35	03/20/26 13:55	1
13C3 PFHxS	108		50 - 200	03/19/26 13:35	03/20/26 13:55	1
13C8 PFOS	110		50 - 200	03/19/26 13:35	03/20/26 13:55	1
13C2-4:2-FTS	127		50 - 200	03/19/26 13:35	03/20/26 13:55	1
13C2-6:2-FTS	116		50 - 200	03/19/26 13:35	03/20/26 13:55	1
13C2-8:2-FTS	101		50 - 200	03/19/26 13:35	03/20/26 13:55	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		2.0	ng/L		03/13/26 13:55	03/15/26 14:49	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		03/13/26 13:55	03/15/26 14:49	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		03/13/26 13:55	03/15/26 14:49	1

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# Client Sample Results

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

Job ID: 380-202544-1  
SDG: PFAS: Moanalua Wells

**Client Sample ID: FB: MOANALUA WELLS (331-223-TP202)**

**Lab Sample ID: 380-202544-2**

Date Collected: 03/09/26 09:58

Matrix: Water

Date Received: 03/11/26 09:30

PWSID Number: HI0000331

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<2.0		2.0	ng/L		03/13/26 13:55	03/15/26 14:49	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<2.0		2.0	ng/L		03/13/26 13:55	03/15/26 14:49	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		03/13/26 13:55	03/15/26 14:49	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0	ng/L		03/13/26 13:55	03/15/26 14:49	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		03/13/26 13:55	03/15/26 14:49	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		03/13/26 13:55	03/15/26 14:49	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		03/13/26 13:55	03/15/26 14:49	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		03/13/26 13:55	03/15/26 14:49	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		03/13/26 13:55	03/15/26 14:49	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		03/13/26 13:55	03/15/26 14:49	1
Perfluorotetradecanoic acid (PFTA)	<2.0		2.0	ng/L		03/13/26 13:55	03/15/26 14:49	1
Perfluorotridecanoic acid (PFTrDA)	<2.0		2.0	ng/L		03/13/26 13:55	03/15/26 14:49	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	<2.0		2.0	ng/L		03/13/26 13:55	03/15/26 14:49	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		2.0	ng/L		03/13/26 13:55	03/15/26 14:49	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		03/13/26 13:55	03/15/26 14:49	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	104		70 - 130			03/13/26 13:55	03/15/26 14:49	1
13C2 PFHxA	100		70 - 130			03/13/26 13:55	03/15/26 14:49	1
13C2 PFDA	105		70 - 130			03/13/26 13:55	03/15/26 14:49	1
13C3-GenX	95		70 - 130			03/13/26 13:55	03/15/26 14:49	1

# Action Limit Summary

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

Job ID: 380-202544-1  
SDG: PFAS: Moanalua Wells

**Client Sample ID: MOANALUA WELLS (331-223-TP202)**

**Lab Sample ID: 380-202544-1**

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

**Client Sample ID: FB: MOANALUA WELLS (331-223-TP202)**

**Lab Sample ID: 380-202544-2**

**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	EPA 537.1 V2	Total/NA
Perfluorooctanesulfonic acid (PFOS)	<2.0		ng/L	4	2.0	EPA 537.1 V2	Total/NA
Perfluorooctanoic acid (PFOA)	<2.0		ng/L	4	2.0	EPA 537.1 V2	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	<2.0		ng/L	10	2.0	EPA 537.1 V2	Total/NA
Perfluorononanoic acid (PFNA)	<2.0		ng/L	10	2.0	EPA 537.1 V2	Total/NA

# Surrogate Summary

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

Job ID: 380-202544-1  
 SDG: PFAS: Moanalua Wells

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

**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)
380-202544-1	MOANALUA WELLS (331-223-TP2C	102	106	109	103
<b>Surrogate Legend</b>					
d5NEFOS = d5-NEtFOSAA					
PFHxA = 13C2 PFHxA					
PFDA = 13C2 PFDA					
GenX = 13C3-GenX					

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

**Matrix: Water**

**Prep Type: Total/NA**

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		d5NEFOS (70-130)	PFHxA (70-130)	PFDA (70-130)	GenX (70-130)
380-202544-2	FB: MOANALUA WELLS (331-223-1	104	100	105	95
<b>Surrogate Legend</b>					
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: 380-202544-1  
SDG: PFAS: Moanalua Wells

## 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)	PFDoA (50-200)
380-202544-1	MOANALUA WELLS (331-223-TP202)	94	101	105	103	104	109	102	102
380-202544-1 MS	MOANALUA WELLS (331-223-TP202)	94	99	94	97	95	100	99	97
380-202544-1 MSD	MOANALUA WELLS (331-223-TP202)	96	105	103	103	105	110	103	101

		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)
380-202544-1	MOANALUA WELLS (331-223-TP202)	108	110	104	106	106	123	109	101
380-202544-1 MS	MOANALUA WELLS (331-223-TP202)	101	96	97	95	98	110	100	102
380-202544-1 MSD	MOANALUA WELLS (331-223-TP202)	106	108	110	105	107	127	115	106

**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

## 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)	PFDoA (50-200)
380-202544-2	FB: MOANALUA WELLS (331-223-TP202)	102	105	109	112	111	114	102	105
LCS 380-214348/22-A	Lab Control Sample	98	104	105	105	103	109	99	102
MBL 380-214348/20-A	Method Blank	100	111	113	114	112	115	113	107
MRL 380-214348/21-A	Lab Control Sample	104	112	117	120	122	121	112	116

		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)
380-202544-2	FB: MOANALUA WELLS (331-223-TP202)	111	112	110	108	110	127	116	101
LCS 380-214348/22-A	Lab Control Sample	101	104	99	99	101	126	102	96
MBL 380-214348/20-A	Method Blank	110	113	108	110	115	135	125	105
MRL 380-214348/21-A	Lab Control Sample	107	107	105	111	112	136	115	112

**Surrogate Legend**

Eurofins Pomona

# Isotope Dilution Summary

Client: City & County of Honolulu

Project/Site: RED-HILL

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

Job ID: 380-202544-1

SDG: PFAS: Moanalua Wells

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# QC Sample Results

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

Job ID: 380-202544-1  
SDG: PFAS: Moanalua Wells

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

**Lab Sample ID: MBL 380-214348/20-A**  
**Matrix: Water**  
**Analysis Batch: 214584**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 214348**

Analyte	MBL	MBL	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<0.30		2.0	ng/L		03/19/26 13:35	03/20/26 12:58	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<0.30		2.0	ng/L		03/19/26 13:35	03/20/26 12:58	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.60		2.0	ng/L		03/19/26 13:35	03/20/26 12:58	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<1.0		2.0	ng/L		03/19/26 13:35	03/20/26 12:58	1
Perfluorobutanesulfonic acid (PFBS)	<0.37		2.0	ng/L		03/19/26 13:35	03/20/26 12:58	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	ng/L		03/19/26 13:35	03/20/26 12:58	1
Perfluorododecanoic acid (PFDoA)	<0.54		2.0	ng/L		03/19/26 13:35	03/20/26 12:58	1
Perfluoroheptanoic acid (PFHpA)	<0.39		2.0	ng/L		03/19/26 13:35	03/20/26 12:58	1
Perfluorohexanesulfonic acid (PFHxS)	<0.32		2.0	ng/L		03/19/26 13:35	03/20/26 12:58	1
Perfluorohexanoic acid (PFHxA)	<0.46		2.0	ng/L		03/19/26 13:35	03/20/26 12:58	1
Perfluorononanoic acid (PFNA)	<0.40		2.0	ng/L		03/19/26 13:35	03/20/26 12:58	1
Perfluorooctanesulfonic acid (PFOS)	<0.43		2.0	ng/L		03/19/26 13:35	03/20/26 12:58	1
Perfluorooctanoic acid (PFOA)	<0.38		2.0	ng/L		03/19/26 13:35	03/20/26 12:58	1
Perfluoroundecanoic acid (PFUnA)	<0.42		2.0	ng/L		03/19/26 13:35	03/20/26 12:58	1
Perfluorobutanoic acid (PFBA)	<0.69		2.0	ng/L		03/19/26 13:35	03/20/26 12:58	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<0.38		2.0	ng/L		03/19/26 13:35	03/20/26 12:58	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<0.37		2.0	ng/L		03/19/26 13:35	03/20/26 12:58	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<0.48		2.0	ng/L		03/19/26 13:35	03/20/26 12:58	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.47		2.0	ng/L		03/19/26 13:35	03/20/26 12:58	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<0.25		2.0	ng/L		03/19/26 13:35	03/20/26 12:58	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.46		2.0	ng/L		03/19/26 13:35	03/20/26 12:58	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.15		2.0	ng/L		03/19/26 13:35	03/20/26 12:58	1
Perfluoropentanoic acid (PFPeA)	<0.38		2.0	ng/L		03/19/26 13:35	03/20/26 12:58	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.36		2.0	ng/L		03/19/26 13:35	03/20/26 12:58	1
Perfluoropentanesulfonic acid (PFPeS)	<0.39		2.0	ng/L		03/19/26 13:35	03/20/26 12:58	1

Isotope Dilution	MBL	MBL	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C3 HFPO-DA	100		50 - 200	03/19/26 13:35	03/20/26 12:58	1
13C6 PFDA	111		50 - 200	03/19/26 13:35	03/20/26 12:58	1
13C5 PFHxA	113		50 - 200	03/19/26 13:35	03/20/26 12:58	1
13C4 PFHpA	114		50 - 200	03/19/26 13:35	03/20/26 12:58	1
13C8 PFOA	112		50 - 200	03/19/26 13:35	03/20/26 12:58	1
13C9 PFNA	115		50 - 200	03/19/26 13:35	03/20/26 12:58	1
13C7 PFUnA	113		50 - 200	03/19/26 13:35	03/20/26 12:58	1
13C2 PFDoA	107		50 - 200	03/19/26 13:35	03/20/26 12:58	1
13C4 PFBA	110		50 - 200	03/19/26 13:35	03/20/26 12:58	1
13C5 PFPeA	113		50 - 200	03/19/26 13:35	03/20/26 12:58	1
13C3 PFBS	108		50 - 200	03/19/26 13:35	03/20/26 12:58	1
13C3 PFHxS	110		50 - 200	03/19/26 13:35	03/20/26 12:58	1

Eurofins Pomona

# QC Sample Results

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

Job ID: 380-202544-1  
SDG: PFAS: Moanalua Wells

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

**Lab Sample ID: MBL 380-214348/20-A**  
**Matrix: Water**  
**Analysis Batch: 214584**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 214348**

Isotope Dilution	MBL MBL		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C8 PFOS	115		50 - 200	03/19/26 13:35	03/20/26 12:58	1
13C2-4:2-FTS	135		50 - 200	03/19/26 13:35	03/20/26 12:58	1
13C2-6:2-FTS	125		50 - 200	03/19/26 13:35	03/20/26 12:58	1
13C2-8:2-FTS	105		50 - 200	03/19/26 13:35	03/20/26 12:58	1

**Lab Sample ID: LCS 380-214348/22-A**  
**Matrix: Water**  
**Analysis Batch: 214584**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 214348**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	60.1	60.3		ng/L		100	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	60.1	58.7		ng/L		98	70 - 130
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	60.1	59.6		ng/L		99	70 - 130
Perfluorobutanesulfonic acid (PFBS)	60.1	58.6		ng/L		97	70 - 130
Perfluorodecanoic acid (PFDA)	60.1	55.1		ng/L		92	70 - 130
Perfluorododecanoic acid (PFDoA)	60.1	57.8		ng/L		96	70 - 130
Perfluoroheptanoic acid (PFHpA)	60.1	58.2		ng/L		97	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	60.1	58.6		ng/L		97	70 - 130
Perfluorohexanoic acid (PFHxA)	60.1	56.6		ng/L		94	70 - 130
Perfluorononanoic acid (PFNA)	60.1	55.8		ng/L		93	70 - 130
Perfluorooctanesulfonic acid (PFOS)	60.1	56.7		ng/L		94	70 - 130
Perfluorooctanoic acid (PFOA)	60.1	60.2		ng/L		100	70 - 130
Perfluoroundecanoic acid (PFUnA)	60.1	58.2		ng/L		97	70 - 130
Perfluorobutanoic acid (PFBA)	60.1	56.4		ng/L		94	70 - 130
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	60.1	60.9		ng/L		101	70 - 130
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	60.1	55.2		ng/L		92	70 - 130
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	60.1	65.5		ng/L		109	70 - 130
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	60.1	59.7		ng/L		99	70 - 130
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	60.1	64.4		ng/L		107	70 - 130
Perfluoro-3-methoxypropanoic acid (PFMPA)	60.1	59.6		ng/L		99	70 - 130
Perfluoro-4-methoxybutanoic acid (PFMBA)	60.1	58.0		ng/L		96	70 - 130
Perfluoropentanoic acid (PFPeA)	60.1	59.1		ng/L		98	70 - 130
Perfluoroheptanesulfonic acid (PFHpS)	60.1	55.4		ng/L		92	70 - 130

# QC Sample Results

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

Job ID: 380-202544-1  
SDG: PFAS: Moanalua Wells

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

**Lab Sample ID: LCS 380-214348/22-A**

**Matrix: Water**

**Analysis Batch: 214584**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 214348**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoropentanesulfonic acid (PFPeS)	60.1	58.7		ng/L		98	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	104		50 - 200				
13C5 PFHxA	105		50 - 200				
13C4 PFHpA	105		50 - 200				
13C8 PFOA	103		50 - 200				
13C9 PFNA	109		50 - 200				
13C7 PFUnA	99		50 - 200				
13C2 PFDoA	102		50 - 200				
13C4 PFBA	101		50 - 200				
13C5 PFPeA	104		50 - 200				
13C3 PFBS	99		50 - 200				
13C3 PFHxS	99		50 - 200				
13C8 PFOS	101		50 - 200				
13C2-4:2-FTS	126		50 - 200				
13C2-6:2-FTS	102		50 - 200				
13C2-8:2-FTS	96		50 - 200				

**Lab Sample ID: MRL 380-214348/21-A**

**Matrix: Water**

**Analysis Batch: 214584**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 214348**

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.00	1.95	J	ng/L		97	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	2.00	2.30	J	ng/L		115	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	2.00	2.07	J	ng/L		103	50 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	2.00	2.24	J	ng/L		112	50 - 150
Perfluorobutanesulfonic acid (PFBS)	2.00	2.22	J	ng/L		111	50 - 150
Perfluorodecanoic acid (PFDA)	2.00	2.14	J	ng/L		107	50 - 150
Perfluorododecanoic acid (PFDoA)	2.00	2.10	J	ng/L		105	50 - 150
Perfluoroheptanoic acid (PFHpA)	2.00	2.18	J	ng/L		109	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	2.00	2.06	J	ng/L		103	50 - 150
Perfluorohexanoic acid (PFHxA)	2.00	2.11	J	ng/L		105	50 - 150
Perfluorononanoic acid (PFNA)	2.00	2.16	J	ng/L		108	50 - 150
Perfluorooctanesulfonic acid (PFOS)	2.00	1.96	J	ng/L		98	50 - 150
Perfluorooctanoic acid (PFOA)	2.00	2.04	J	ng/L		102	50 - 150
Perfluoroundecanoic acid (PFUnA)	2.00	2.17	J	ng/L		108	50 - 150
Perfluorobutanoic acid (PFBA)	2.00	2.04	J	ng/L		102	50 - 150

Eurofins Pomona

# QC Sample Results

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

Job ID: 380-202544-1  
SDG: PFAS: Moanalua Wells

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

**Lab Sample ID: MRL 380-214348/21-A**  
**Matrix: Water**  
**Analysis Batch: 214584**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 214348**

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	2.00	2.39	J	ng/L		119	50 - 150
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	2.00	2.26	J	ng/L		113	50 - 150
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	2.00	2.86	J	ng/L		143	50 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	2.00	2.00	J	ng/L		100	50 - 150
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	2.00	2.38	J	ng/L		119	50 - 150
Perfluoro-3-methoxypropanoic acid (PFMPA)	2.00	1.98	J	ng/L		99	50 - 150
Perfluoro-4-methoxybutanoic acid (PFMBA)	2.00	2.20	J	ng/L		110	50 - 150
Perfluoropentanoic acid (PFPeA)	2.00	2.34	J	ng/L		117	50 - 150
Perfluoroheptanesulfonic acid (PFHpS)	2.00	1.99	J	ng/L		99	50 - 150
Perfluoropentanesulfonic acid (PFPeS)	2.00	2.15	J	ng/L		107	50 - 150

Isotope Dilution	MRL %Recovery	MRL Qualifier	MRL Limits
13C3 HFPO-DA	104		50 - 200
13C6 PFDA	112		50 - 200
13C5 PFHxA	117		50 - 200
13C4 PFHpA	120		50 - 200
13C8 PFOA	122		50 - 200
13C9 PFNA	121		50 - 200
13C7 PFUnA	112		50 - 200
13C2 PFDoA	116		50 - 200
13C4 PFBA	107		50 - 200
13C5 PFPeA	107		50 - 200
13C3 PFBS	105		50 - 200
13C3 PFHxS	111		50 - 200
13C8 PFOS	112		50 - 200
13C2-4:2-FTS	136		50 - 200
13C2-6:2-FTS	115		50 - 200
13C2-8:2-FTS	112		50 - 200

**Lab Sample ID: 380-202544-1 MS**  
**Matrix: Drinking Water**  
**Analysis Batch: 214584**

**Client Sample ID: MOANALUA WELLS (331-223-TP202)**  
**Prep Type: Total/NA**  
**Prep Batch: 214348**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		60.2	57.3		ng/L		95	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		60.2	58.0		ng/L		96	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		60.2	57.4		ng/L		95	70 - 130

# QC Sample Results

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

Job ID: 380-202544-1  
SDG: PFAS: Moanalua Wells

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

Lab Sample ID: 380-202544-1 MS

Client Sample ID: MOANALUA WELLS (331-223-TP202)

Matrix: Drinking Water

Prep Type: Total/NA

Analysis Batch: 214584

Prep Batch: 214348

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier	Added	Result	Qualifier				
Hexafluoropropylene Oxide	<2.0		60.2	55.1		ng/L		91	70 - 130
Dimer Acid (HFPO-DA/GenX)									
Perfluorobutanesulfonic acid (PFBS)	<2.0		60.2	56.8		ng/L		93	70 - 130
Perfluorodecanoic acid (PFDA)	<2.0		60.2	55.3		ng/L		92	70 - 130
Perfluorododecanoic acid (PFDoA)	<2.0		60.2	57.9		ng/L		96	70 - 130
Perfluoroheptanoic acid (PFHpA)	<2.0		60.2	55.4		ng/L		91	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	<2.0		60.2	57.9		ng/L		94	70 - 130
Perfluorohexanoic acid (PFHxA)	<2.0		60.2	59.2		ng/L		97	70 - 130
Perfluorononanoic acid (PFNA)	<2.0		60.2	57.7		ng/L		96	70 - 130
Perfluorooctanesulfonic acid (PFOS)	<2.0		60.2	58.9		ng/L		95	70 - 130
Perfluorooctanoic acid (PFOA)	<2.0		60.2	57.9		ng/L		95	70 - 130
Perfluoroundecanoic acid (PFUnA)	<2.0		60.2	56.5		ng/L		94	70 - 130
Perfluorobutanoic acid (PFBA)	<2.0		60.2	58.0		ng/L		94	70 - 130
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		60.2	55.8		ng/L		93	70 - 130
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		60.2	56.0		ng/L		93	70 - 130
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		60.2	59.7		ng/L		99	70 - 130
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		60.2	59.0		ng/L		98	70 - 130
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<2.0		60.2	63.6		ng/L		106	70 - 130
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		60.2	60.3		ng/L		100	70 - 130
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		60.2	63.6		ng/L		106	70 - 130
Perfluoropentanoic acid (PFPeA)	<2.0		60.2	63.9		ng/L		104	70 - 130
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		60.2	54.3		ng/L		90	70 - 130
Perfluoropentanesulfonic acid (PFPeS)	<2.0		60.2	59.4		ng/L		99	70 - 130

Isotope Dilution	MS MS		Limits
	%Recovery	Qualifier	
13C3 HFPO-DA	94		50 - 200
13C6 PFDA	99		50 - 200
13C5 PFHxA	94		50 - 200
13C4 PFHpA	97		50 - 200
13C8 PFOA	95		50 - 200
13C9 PFNA	100		50 - 200
13C7 PFUnA	99		50 - 200
13C2 PFDoA	97		50 - 200
13C4 PFBA	101		50 - 200
13C5 PFPeA	96		50 - 200
13C3 PFBS	97		50 - 200
13C3 PFHxS	95		50 - 200
13C8 PFOS	98		50 - 200

# QC Sample Results

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

Job ID: 380-202544-1  
SDG: PFAS: Moanalua Wells

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

**Lab Sample ID: 380-202544-1 MS**  
**Matrix: Drinking Water**  
**Analysis Batch: 214584**

**Client Sample ID: MOANALUA WELLS (331-223-TP202)**  
**Prep Type: Total/NA**  
**Prep Batch: 214348**

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
13C2-4:2-FTS	110		50 - 200
13C2-6:2-FTS	100		50 - 200
13C2-8:2-FTS	102		50 - 200

**Lab Sample ID: 380-202544-1 MSD**  
**Matrix: Drinking Water**  
**Analysis Batch: 214584**

**Client Sample ID: MOANALUA WELLS (331-223-TP202)**  
**Prep Type: Total/NA**  
**Prep Batch: 214348**

<b>Analyte</b>	<b>Sample Result</b>	<b>Sample Qualifier</b>	<b>Spike Added</b>	<b>MSD Result</b>	<b>MSD Qualifier</b>	<b>Unit</b>	<b>D</b>	<b>%Rec</b>	<b>%Rec Limits</b>	<b>RPD</b>	<b>RPD Limit</b>
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	<2.0		60.2	54.5		ng/L		90	70 - 130	5	30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid(9Cl-PF3ONS)	<2.0		60.2	59.1		ng/L		98	70 - 130	2	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		60.2	59.4		ng/L		99	70 - 130	3	30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA/GenX)	<2.0		60.2	58.4		ng/L		97	70 - 130	6	30
Perfluorobutanesulfonic acid (PFBS)	<2.0		60.2	57.4		ng/L		94	70 - 130	1	30
Perfluorodecanoic acid (PFDA)	<2.0		60.2	56.8		ng/L		94	70 - 130	3	30
Perfluorododecanoic acid (PFDoA)	<2.0		60.2	57.0		ng/L		95	70 - 130	2	30
Perfluoroheptanoic acid (PFHpA)	<2.0		60.2	60.8		ng/L		100	70 - 130	9	30
Perfluorohexanesulfonic acid (PFHxS)	<2.0		60.2	60.9		ng/L		99	70 - 130	5	30
Perfluorohexanoic acid (PFHxA)	<2.0		60.2	60.4		ng/L		99	70 - 130	2	30
Perfluorononanoic acid (PFNA)	<2.0		60.2	56.5		ng/L		94	70 - 130	2	30
Perfluorooctanesulfonic acid (PFOS)	<2.0		60.2	58.3		ng/L		94	70 - 130	1	30
Perfluorooctanoic acid (PFOA)	<2.0		60.2	59.8		ng/L		98	70 - 130	3	30
Perfluoroundecanoic acid (PFUnA)	<2.0		60.2	57.6		ng/L		96	70 - 130	2	30
Perfluorobutanoic acid (PFBA)	<2.0		60.2	59.9		ng/L		97	70 - 130	3	30
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		60.2	63.0		ng/L		105	70 - 130	12	30
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		60.2	61.1		ng/L		101	70 - 130	9	30
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		60.2	65.8		ng/L		109	70 - 130	10	30
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<2.0		60.2	56.0		ng/L		93	70 - 130	5	30
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<2.0		60.2	60.8		ng/L		101	70 - 130	5	30
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		60.2	60.5		ng/L		101	70 - 130	0	30
Perfluoro-4-methoxybutanoic acid (PFMBA)	<2.0		60.2	59.4		ng/L		99	70 - 130	7	30
Perfluoropentanoic acid (PFPeA)	<2.0		60.2	60.4		ng/L		99	70 - 130	6	30
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		60.2	56.9		ng/L		94	70 - 130	5	30
Perfluoropentanesulfonic acid (PFPeS)	<2.0		60.2	58.3		ng/L		97	70 - 130	2	30

Eurofins Pomona

# QC Sample Results

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

Job ID: 380-202544-1  
 SDG: PFAS: Moanalua Wells

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

<i>Isotope Dilution</i>	<i>MSD MSD</i>		<i>Limits</i>
	<i>%Recovery</i>	<i>Qualifier</i>	
13C3 HFPO-DA	96		50 - 200
13C6 PFDA	105		50 - 200
13C5 PFHxA	103		50 - 200
13C4 PFHpA	103		50 - 200
13C8 PFOA	105		50 - 200
13C9 PFNA	110		50 - 200
13C7 PFUnA	103		50 - 200
13C2 PFDoA	101		50 - 200
13C4 PFBA	106		50 - 200
13C5 PFPeA	108		50 - 200
13C3 PFBS	110		50 - 200
13C3 PFHxS	105		50 - 200
13C8 PFOS	107		50 - 200
13C2-4:2-FTS	127		50 - 200
13C2-6:2-FTS	115		50 - 200
13C2-8:2-FTS	106		50 - 200

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# QC Association Summary

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

Job ID: 380-202544-1  
 SDG: PFAS: Moanalua Wells

## LCMS

### Prep Batch: 213083

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-202544-1	MOANALUA WELLS (331-223-TP202)	Total/NA	Drinking Water	537.1 DW	
380-202544-2	FB: MOANALUA WELLS (331-223-TP202)	Total/NA	Water	537.1 DW	

### Analysis Batch: 213260

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-202544-1	MOANALUA WELLS (331-223-TP202)	Total/NA	Drinking Water	EPA 537.1 V2	213083
380-202544-2	FB: MOANALUA WELLS (331-223-TP202)	Total/NA	Water	EPA 537.1 V2	213083

### Prep Batch: 214348

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-202544-1	MOANALUA WELLS (331-223-TP202)	Total/NA	Drinking Water	533	
380-202544-2	FB: MOANALUA WELLS (331-223-TP202)	Total/NA	Water	533	
MBL 380-214348/20-A	Method Blank	Total/NA	Water	533	
LCS 380-214348/22-A	Lab Control Sample	Total/NA	Water	533	
MRL 380-214348/21-A	Lab Control Sample	Total/NA	Water	533	
380-202544-1 MS	MOANALUA WELLS (331-223-TP202)	Total/NA	Drinking Water	533	
380-202544-1 MSD	MOANALUA WELLS (331-223-TP202)	Total/NA	Drinking Water	533	

### Analysis Batch: 214584

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-202544-1	MOANALUA WELLS (331-223-TP202)	Total/NA	Drinking Water	533	214348
380-202544-2	FB: MOANALUA WELLS (331-223-TP202)	Total/NA	Water	533	214348
MBL 380-214348/20-A	Method Blank	Total/NA	Water	533	214348
LCS 380-214348/22-A	Lab Control Sample	Total/NA	Water	533	214348
MRL 380-214348/21-A	Lab Control Sample	Total/NA	Water	533	214348
380-202544-1 MS	MOANALUA WELLS (331-223-TP202)	Total/NA	Drinking Water	533	214348
380-202544-1 MSD	MOANALUA WELLS (331-223-TP202)	Total/NA	Drinking Water	533	214348

# Lab Chronicle

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

Job ID: 380-202544-1  
 SDG: PFAS: Moanalua Wells

**Client Sample ID: MOANALUA WELLS (331-223-TP202)**

**Lab Sample ID: 380-202544-1**

Date Collected: 03/09/26 09:58

Matrix: Drinking Water

Date Received: 03/11/26 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			214348	E2HD	EA POM	03/19/26 13:35
Total/NA	Analysis	533		1	214584	Y5FM	EA POM	03/20/26 13:26
Total/NA	Prep	537.1 DW			213083	N8NE	EA POM	03/13/26 13:55
Total/NA	Analysis	EPA 537.1 V2		1	213260	M7ML	EA POM	03/15/26 14:40

**Client Sample ID: FB: MOANALUA WELLS (331-223-TP202)**

**Lab Sample ID: 380-202544-2**

Date Collected: 03/09/26 09:58

Matrix: Water

Date Received: 03/11/26 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			214348	E2HD	EA POM	03/19/26 13:35
Total/NA	Analysis	533		1	214584	Y5FM	EA POM	03/20/26 13:55
Total/NA	Prep	537.1 DW			213083	N8NE	EA POM	03/13/26 13:55
Total/NA	Analysis	EPA 537.1 V2		1	213260	M7ML	EA POM	03/15/26 14:49

**Laboratory References:**

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

# Accreditation/Certification Summary

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

Job ID: 380-202544-1  
SDG: PFAS: Moanalua Wells

## Laboratory: Eurofins Pomona

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

Authority	Program	Identification Number	Expiration Date
Hawaii	State	CA00006	01-31-26 *

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

# Method Summary

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

Job ID: 380-202544-1  
SDG: PFAS: Moanalua Wells

Method	Method Description	Protocol	Laboratory
533	Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water	EPA	EA POM
EPA 537.1 V2	EPA 537.1 Ver. 2.0 March 2020	EPA	EA POM
533	Extraction of Perfluorinated and Polyfluorinated Alkyl Acids	EPA	EA POM
537.1 DW	Extraction of Perfluorinated Alkyl Acids	EPA	EA POM

**Protocol References:**

EPA = US Environmental Protection Agency

**Laboratory References:**

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



# Sample Summary

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

Job ID: 380-202544-1  
SDG: PFAS: Moanalua Wells

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	PWSID Number
380-202544-1	MOANALUA WELLS (331-223-TP202)	Drinking Water	03/09/26 09:58	03/11/26 09:30	HI0000331
380-202544-2	FB: MOANALUA WELLS (331-223-TP202)	Water	03/09/26 09:58	03/11/26 09:30	HI0000331

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**Monrovia, CA (Suite 100)**  
 750 Royal Oaks Drive Suite 100  
 Monrovia, CA 91016  
 Phone (626) 386-1100

# Chain of Custody Record



<b>Client Information</b>		Sampler: Bailey	Lab Pk: Lopez, Mana	Carrier Tracking No(s):	COC No:
Client Contact: kirk lwamoto		Phone: +1 808 748 5840	E-Mail: Maria.Lopez@eurofins.com	State of Origin:	Page: Page 1 of 1
Company: City & County of Honolulu		PWSID:		Job #:	
Address: 630 South Beretania Street, Chemistry Lab		Due Date Requested:		Analysis Requested	
City: Honolulu		TAT Requested (days):		Preservation Codes:	
State, Zip: HI, 96843		Compliance Project: Δ No		A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:	
Phone: 808-748-5840 (tel)		PO #: C20525101 exp 05312023		M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate	
Email: kwamoto@hbws.org		WO #: 38001111		U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify)	
Project Name: RED-HILL/HBWS sites Event Desc: RUSH Weekly Red Hill		Project #: 38001111		Total Number of Containers	
Site:		SSOW#:		X	
<b>Sample Identification</b>		Sample Date		Special Instructions/Note:	
Moanalua Wells (311-223-TP202)		9-Mar-2026		chlorinated	
Sample Time		0958		380-202544 COC	
Sample Type (C=Comp, G=grab)		G		Matrix (Water, Swab, Dermal, Urine, Blood, etc.)	
Preservation Code:		G		Water	
Sample Date		9-Mar-2026		Field Filled Sample (Yes or No)	
FB: Moanalua Wells (311-223-TP202)		9-Mar-2026		Perform MS/MSD (Yes or No)	
Sample Date		9-Mar-2026		SUBCONTRACT - 625 PAH Physic LL (EAL) + TICs	
Sample Time		0958		60168_GRO_LL - (MOD) GRO	
Sample Type (C=Comp, G=grab)		G		60168_DRO_LL_CS - HNL Ranges: C10-C24/C24-C38/C8-C18	
Preservation Code:		G		626_2_PREC - (MOD) 626plus PLUS TICs	
Sample Date		9-Mar-2026		637_1_DW_PREC - 637_1 Full List	
Sample Time		0958		633 - All Analytes	
Sample Type (C=Comp, G=grab)		G		QA Y I	
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## Login Sample Receipt Checklist

Client: City & County of Honolulu

Job Number: 380-202544-1  
SDG Number: PFAS: Moanalua Wells

**Login Number: 202544**

**List Number: 1**

**Creator: Del Rosario, Michael**

**List Source: Eurofins Pomona**

Question	Answer	Comment
The coolers custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
Samples were received on ice.	True	
Cooler(s) Temperature is acceptable.	True	
Cooler(s) Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and is legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	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	
ClO4 headspace requirement met (>50% for CA, >30% for other states).	True	
Samples do not require splitting or compositing.	True	
Container provided by EEA	True	

